

MAINTENANCE

B21

SERVICE INTERVALS

No.	Period		Indication on hour meter														Since then	Reference page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine oil	Change	⊙	○		○		○		○		○		○		○	every 100 Hr	45			
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	48			
3	Transmission fluid	Change	⊙					○						○			every 300 Hr	52			
4	Hydraulic oil filter	Replace	⊙			○				○				○			every 200 Hr	49			
5	Transmission oil filter [HST]	Replace	⊙			○				○				○			every 200 Hr	49			
6	Transmission strainer [HST]	Clean	⊙					○						○			every 300 Hr	53			
7	Front axle case oil [4WD]	Change						○						○			every 300 Hr	53			
8	Front axle pivot[4WD]	Adjust								○							every 400 Hr	54			
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	42			
10	Greasing	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	42			
11	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	43			
12	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	43			
13	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	45	*1	@
			Replace														every 1 year	53	*2		
		Secondary element	Replace														every 1 year	53			
14	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	46		@	
		Replace								○							every 400 Hr	53			
15	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	46			
16	Clutch	Adjust	⊙	○		○		○		○		○		○		○	every 100 Hr	47			
17	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	47			
18	Radiator hose and clamp	Check				○				○				○			every 200 Hr	50			
		Replace															every 2 years	55			
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	48			
		Replace															every 2 years	55			
20	Intake air line	Check				○				○				○			every 200 Hr	51		@	
		Replace															every 2 years	55	*3		
21	Toe-in	Adjust				○				○				○			every 200 Hr	50			
22	Spark arrester muffler	Clean					○					○					every 250 Hr	51			
23	Engine valve clearance	Adjust															every 800 Hr	54	*4		
24	Fuel injection nozzle	Check															every 1500 Hr	54	*4	@	
25	Injection pump	Check															every 3000 Hr	54	*4	@	
26	Cooling system	Flush															every 2 years	54			
27	Coolant	Change															every 2 years	54			
28	Fuel system	Bleed															Service as required	55			
29	Fuse	Replace																56			
30	Light bulb	Replace																56			

IMPORTANT:

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants							
		B21								
1	Fuel	24 L (6.3 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10℃ (14℉)							
2	Coolant	3.2 L (3.4 U.S.qts.)	Fresh clean water with anti-freeze							
3	Engine crankcase (with filter)	3.0 L (3.2 U.S.qts.)	<div>● Engine oil: API Service Classification CC or CD</div> <table><tr><td>Above 25℃ (77℉)</td><td>SAE30, SAE10W-30 or 10W-40</td></tr><tr><td>0 to 25℃ (32 to 77℉)</td><td>SAE20, SAE10W-30 or 10W-40</td></tr><tr><td>Below 0℃ (32℉)</td><td>SAE10W,SAE10W-30 or 10W-40</td></tr></table>		Above 25℃ (77℉)	SAE30, SAE10W-30 or 10W-40	0 to 25℃ (32 to 77℉)	SAE20, SAE10W-30 or 10W-40	Below 0℃ (32℉)	SAE10W,SAE10W-30 or 10W-40
Above 25℃ (77℉)	SAE30, SAE10W-30 or 10W-40									
0 to 25℃ (32 to 77℉)	SAE20, SAE10W-30 or 10W-40									
Below 0℃ (32℉)	SAE10W,SAE10W-30 or 10W-40									
4	Transmission case	27.5 L (7.26 U.S.gals.) (included oil tank)	● KUBOTA UDT or SUPER UDT fluid*							
5	Front axle case	3.7 L (3.9 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid* or SAE 80· SAE 90 gear oil							
6	Greasing	No. of greasing points	Capacity	Type of grease						
	Speed control pedal	1	Until grease overflows.	Multipurpose type grease						
	Battery terminal	2	moderate amount							
	Lift rod	1								
	Seat adjuster	—								

NOTE: * KUBOTA UDT or SUPER UDT fluid ... KUBOTA Original Transmission hydraulic fluid

NOTE:

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Transmission oil:
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands or grades.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

B2320, B2620,
B2920

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	⊙			○				○				○			every 200 Hr	61		
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	60		
3	Transmission oil filter [HST]	Replace	⊙			○				○				○			every 200 Hr	62		
4	Hydraulic oil filter	Replace	⊙							○							every 400 Hr	64		
5	Transmission fluid	Change								○							every 400 Hr	64		
6	Front axle case oil	Change								○							every 400 Hr	65		
7	Front axle pivot	Adjust								○							every 400 Hr	63		
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	54		
9	Greasing	---	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	55		
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	56	*5	
12	Air cleaner element	Primary element	Clean	○		○		○		○		○		○		○	every 100 Hr	57	*1	@
		Replace															every 1 year	65	*2	
		Secondary element	Replace														every 1 year	65		
13	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 Hr	58		@
		Replace								○							every 400 Hr	65		
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	58		
15	Clutch	Adjust	⊙	○		○		○		○		○		○		○	every 100 Hr	59		
16	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	59		
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	63		
		Replace															every 2 years	67		
18	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	60		@
		Replace															every 2 years	67	*4	
19	Intake air line	Check				○				○				○			every 200 Hr	63	*4	@
		Replace															every 2 years	67		
20	Engine valve clearance	Adjust															every 800 Hr	65	*4	
21	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	65	*4	@
22	Injection pump	Check															every 3000 Hr	65	*4	@
23	Cooling system	Flush															every 2 years	66		
24	Coolant	Change															every 2 years	66		
25	Fuel system	Bleed															Service as required	67		
26	Clutch housing water	Drain																67		
27	Fuse	Replace																68		
28	Light bulb	Replace																68		

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in server dusty conditions.
- *2 Every year or after 6 cleanings.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities				Lubricants		
		B2320DT	B2320HSD	B2620HSD	B2920HSD			
1	Fuel	26 L (6.9 U.S.gals.)				No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)		
2	Coolant (with recovery tank)	3.9 L (4.1 U.S.qts.)				Fresh clean water with anti-freeze		
3	Engine crankcase (with filter)	3.1 L (3.3 U.S.qts.)			3.5 L (3.7 U.S.qts.)	● Engine oil : Refer to next page		
						Above 25°C (77°F)		SAE30, SAE10W-30 or 15W-40
						0 to 25°C (32 to 77°F)		SAE20, SAE10W-30 or 15W-40
						Below 0°C (32°F)		SAE10W, SAE10W-30 or 15W-40
4	Transmission case	14 L (3.7 U.S.gals.)	15 L (4.0 U.S.gals.)			● KUBOTA SUPER UDT fluid*		
5	Front axle case	3.2 L (3.4 U.S.qts.)				● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil		
6	Greasing	No. of greasing points				Capacity	Type of grease	
	Speed control pedal	1				Until grease overflow.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)	
	Top link	1						
	Lifting rod (RH)	1						
	Battery terminal	2				Moderate amount		

NOTE: *KUBOTA SUPER UDT fluid--- KUBOTA original transmission hydraulic fluid

NOTE :
◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	B2320 / B2620 / B2920	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE OF THE TRACTOR

B26

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	64		
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	65		
3	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	66		
4	Main frame bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	66		
5	Air cleaner element [Double element type] Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	67	*1	@
		Replace															every 1 year	77	*2	
	Air cleaner element [Double element type] Secondary element	Replace															every 1 year	77		
6	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	68		@
		Replace								○							every 400 Hr	76		
7	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	68		
8	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	69		@
		Replace															every 2 year	79	*3	
9	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	69		
10	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	70	*5	
11	Spark arrester	Clean		○		○		○		○		○		○		○	every 100 Hr	71		
12	Engine oil	Change	◎			○				○				○			every 200 Hr	72		
13	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	72		
14	HST oil filter	Replace	◎			○				○				○			every 200 Hr	73		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	73		
		Replace															every 2 year	79		
16	Intake air line	Check				○				○				○			every 200 Hr	73		@
		Replace															every 2 year	79	*3	

No.	Items		Indication on hour meter													Since then	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Toe-in	Adjust				○				○				○			every 200 Hr	74	
18	Power steering oil line	Check				○				○				○			every 200 Hr	74	
		Replace															every 2 year	79	
19	Transmission fluid	Change								○							every 400 Hr	75	
20	Hydraulic oil filter	Replace	◎							○							every 400 Hr	75	
21	Front axle case oil	Change								○							every 400 Hr	76	
22	Front axle pivot	Adjust								○							every 400 Hr	77	
23	Engine valve clearance	Adjust															every 800 Hr	77	*4
24	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	77	*4 @
25	Injection pump	Check															every 3000 Hr	77	*4 @
26	Cooling system	Flush															every 2 year	78	
27	Coolant	Change															every 2 year	78	
28	Fuel system	Bleed															Service as required	80	
29	Clutch housing water	Drain																80	
30	Fuse	Replace																80	
31	Light bulb	Replace																81	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
 - *1 Air cleaner should be cleaned more often in severe dusty conditions.
 - *2 Every year or every 6 times of cleaning.
 - *3 Replace only if necessary.
 - *4 Consult your local KUBOTA Dealer for this service.
 - *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants	
		B26TL		
1	Fuel	31 L (8.1 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14 °F)	
2	Coolant (with recovery tank)	4.5 L (4.7 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	3.0 L (3.2 U.S.qts.)	● Engine oil : API Service Classification CF or better	
			Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
			0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
			Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case (with oil tank)	26 L (6.9 U.S.gals.)	● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case	4.7 L (5.0 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid* or SAE80 - SAE 90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	● Top link	1	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	● Lift rod [RH]	1		
	● Speed control pedal	1		
	● Battery terminals	2	moderate amount	
	● Suspension adjuster	---		
	● Lock plate	---		
	● Spring hook	---		
	● Reversible seat	---		

NOTE: *KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

NOTE :**◆ Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

SERVICE INTERVALS

No	Items		Indication on hour meter														Since then	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800			
1	Clogging of air conditioner condenser screen [CAB only]	Clean																Daily	63	
2	Engine oil	Change	⊙	○		○		○		○		○		○		○	○	every 100 Hr	68	
3	Engine oil filter	Replace	⊙			○				○				○			○	every 200 Hr	71	
4	Transmission oil filters	Replace	⊙					○						○				every 300 Hr	75	
5	Transmission fluid	Change	⊙					○						○				every 300 Hr	74	
6	Front axle case oil	Change						○						○				every 300 Hr	76	
7	Front axle pivot	Adjust								○							○	every 400 Hr	76	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	66	
9	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	65	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	66	
11	Battery condition	Check		○		○		○		○		○		○		○	○	every 100 Hr	67	*5
12	Air cleaner element [Double element type] Primary element	Clean		○		○		○		○		○		○		○	○	every 100 Hr	69	*1
		Replace																every 1 year	77	*2
	Air cleaner element [Double element type] Secondary element	Replace																every 1 year	77	@
13	Fuel filter element	Clean		○		○		○		○		○		○		○	○	every 100 Hr	69	@
		Replace								○							○	every 400 Hr	76	
14	Fan belt	Adjust		○		○		○		○		○		○		○	○	every 100 Hr	70	
15	Brake	Adjust		○		○		○		○		○		○		○	○	every 100 Hr	70	

No	Items		Indication on hour meter															Since then	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800				
16	Tension of air conditioner drive belt [CAB only]	Adjust				○				○				○			○	every 200 Hr	72		
17	Clogging of inner air filter [CAB only]	Clean				○				○				○			○	every 200 Hr	72		
18	Clogging of fresh air filter [CAB only]	Clean				○				○				○			○	every 200 Hr	73		
19	Clogging of air conditioner condenser [CAB only]	Check				○				○				○			○	every 200 Hr	73		
20	Radiator hose and clamp	Check				○				○				○			○	every 200 Hr	71		
		Replace																every 2 year	78		
21	Fuel line	Check		○		○		○		○		○		○		○	○	every 100 Hr	71		◎
		Replace																every 2 year	78	*3	
22	Intake air line	Check				○				○				○			○	every 200 Hr	73		◎
		Replace																every 2 year	78	*3	
23	Toe-in	Adjust				○				○				○			○	every 200 Hr	74		
24	Engine valve clearance	Adjust															○	every 800 Hr	76	*4	
25	Fuel injection nozzle Injection pressure	Check																every 1500 Hr	76	*4	◎
26	Injection pump	Check																every 3000 Hr	76	*4	◎
27	Air conditioner pipes and hoses [CAB only]	Check																every 1 year	77		
		Replace																every 2 year	78		
28	CAB isolation cushion [CAB only]	Check																every 1 year	77		
29	Cooling system	Flush																every 2 year	77		
30	Coolant	Change																every 2 year	77		

No	Items		Indication on hour meter														Since then	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800			
31	Fuel system	Bleed																service as required	79	
32	Clutch housing water	Drain																	79	
33	Fuse	Replace																	79	
34	Light bulb	Replace																	80	
35	Washer liquid [CAB only]	Check																	80	
36	Amount of refrigerant (gas) [CAB only]	Check																	80	

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
 - *1 Air cleaner should be cleaned more often in severe dusty conditions.
 - *2 Every year or after 6 cleanings.
 - *3 Replace only if necessary.
 - *4 Consult your local KUBOTA Dealer for this service.
 - *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities			Lubricants		
		B2630	B3030	B3000			
1	Fuel	31 L (8.1 U.S.gals.)			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14 °F)		
2	Coolant (with recovery tank)	4.5 L (4.7 U.S.qts.)		5.2 L (5.5 U.S.qts.)	Fresh clean soft water with anti-freeze		
3	Engine crankcase	3.0 L (3.2 U.S.qts.)	4.1 L (4.3 U.S.qts.)		● Engine oil : API Service Classification CD, CE or CF		
					Above 25°C(77°F)		SAE30, SAE10W-30 or 15W-40
					0 to 25°C (32 to 77°F)		SAE20, SAE10W-30 or 15W-40
					Below 0°C(32°F)		SAE10W, SAE10W-30 or 15W-40
4	Transmission case	15 L (4.0 U.S.gals.)			● KUBOTA SUPER UDT-2 fluid		
5	Front axle case	4.7 L (5.0 U.S.qts.)			● KUBOTA SUPER UDT-2 fluid or SAE80 - SAE 90 gear oil		
6	Greasing	No. of greasing points			Capacity	Type of grease	
	● Top link	1			Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)	
	● Lift rod [RH]	1					
	● Speed control pedal	1					
	● Battery terminals	2			moderate amount		

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

For North American market

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel.

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	except external EGR	with external EGR
Models	B2630, B3030, B3000	---

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

B2650, B3350

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800			
1	Clogging of air conditioner condenser screen	Clean																Daily	68	
2	Engine oil	Change	⊙			○				○				○			○	every 200 Hr	77	
3	Engine oil filter	Replace	⊙			○				○				○			○	every 200 Hr	76	
4	Transmission oil filters [HST]	Replace	⊙			○				○				○			○	every 200 Hr	77	
5	Hydraulic oil filter	Replace								○							○	every 400 Hr	83	
6	Transmission fluid	Change								○							○	every 400 Hr	82	
7	Front axle case oil	Change								○							○	every 400 Hr	84	
8	Front axle pivot	Adjust								○							○	every 400 Hr	84	
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	70	
10	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	70	
11	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	71	
12	Battery condition	Check		○		○		○		○		○		○		○	○	every 100 Hr	71	*5
13	Air cleaner element [Double elementtype] Primary element	Clean		○		○		○		○		○		○		○	○	every 100 Hr	73	*1
		Replace																every 1 year	84	*2
	Air cleaner element [Double elementtype] Secondary element	Replace																every 1 year	84	
14	Fuel filter element	Clean		○		○		○		○		○		○		○	○	every 100 Hr	74	
		Replace								○							○	every 400 Hr	84	
15	Fan belt	Adjust		○		○		○		○		○		○		○	○	every 100 Hr	75	

No.	Items		Indication on hour meter														Interval	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800			
16	Brake	Adjust		○		○		○		○		○		○		○	○	every 100 Hr	75	
17	Tension of air conditioner drive belt	Adjust				○				○				○			○	every 200 Hr	80	
18	Clogging of inner air filter	Clean				○				○				○			○	every 200 Hr	81	
19	Clogging of fresh air filter	Clean				○				○				○			○	every 200 Hr	81	
20	Clogging of air conditioner condenser	Check				○				○				○			○	every 200 Hr	82	
21	Radiator hose and clamp	Check				○				○				○			○	every 200 Hr	79	
		Replace																every 2 year	86	
22	Fuel line	Check		○		○		○		○		○		○		○	○	every 100 Hr	76	@
		Replace																every 2 year	86	
23	Intake air line	Check				○				○				○			○	every 200 Hr	79	@
		Replace																every 2 year	86	
24	Toe-in	Adjust				○				○				○			○	every 200 Hr	80	
25	Engine valve clearance	Adjust															○	every 800 Hr	84	*4
26	Fuel injection nozzle Injection pressure	Check																every 1500 Hr	84	*4 @
27	Injection pump	Check																every 3000 Hr	84	*4 @
28	Exhaust manifold [B3350 only]	Check																every 1 year	85	@
29	Air conditioner pipes and hoses	Check																every 1 year	84	
		Replace																every 2 year	86	
30	CAB isolation cushion	Check																every 1 year	85	
31	Differential pressure sensor hose [B3350 only]	Replace																every 2 year	86	*4
32	Cooling system	Flush																every 2 year	85	
33	Coolant	Change																every 2 year	86	

No.	Items		Indication on hour meter														Interval	Ref page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800			
34	Fuel system	Bleed																service as required	87	
35	Clutch housing water	Drain																	87	
36	Fuse	Replace																	87	
37	Light bulb	Replace																	89	
38	Washer liquid	Check																	89	
39	Amount of refrigerant (gas)	Check																	89	

IMPORTANT :

- The jobs indicated by ☉ must be done after the first 50 hours of operation.
 - *1 Air cleaner should be cleaned more often in severe dusty conditions.
 - *2 Every year or after 6 cleanings.
 - *3 Replace only if necessary.
 - *4 Consult your local KUBOTA Dealer for this service.
 - *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		B2650	B3350		
1	Fuel	27 L (7.1 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14 °F)	
2	Coolant (with recovery tank)	4.3 L (4.5 U.S.qts.)		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.5 L (1.6 U.S.qts.)		Automobile washer liquid	
4	Engine crankcase	4.0 L (4.2 U.S.qts.)	4.8 L (5.1 U.S.qts.)	● Engine oil : API Service Classification	CJ-4 [DPF type engine]
				Above 25°C(77°F)	SAE30, SAE10W-30 or 15W-40
				0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
				Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	15 L (4.0 U.S.gals.)		● KUBOTA SUPER UDT-2 fluid	
6	Front axle case	4.7 L (5.0 U.S.qts.)		● KUBOTA SUPER UDT-2 fluid or SAE80 - SAE 90 gear oil	
7	Greasing	No. of greasing points		Capacity	Type of grease
	● Top link	1		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	● Lift rod [RH]	1			
	● Speed control pedal	1			
	● Battery terminals	2		moderate amount	

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF or non-DPF (Diesel Particulate Filter) type engines) and the fuel.
- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engine.

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except DPF [B2650]	Oil class of engines with DPF [B3350]
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CJ-4

◆ **Fuel:**

- Cetane number of 45 is minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

B2710, B2910, B7800

SERVICE INTERVALS

No.	Items		Period	Indication on hour meter														Since then	Reference page		
				50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil		Change	⊙	○		○		○		○		○		○		○	every 100 Hr	54		
2	Engine oil filter		Replace	⊙			○				○				○			every 200 Hr	58		
3	Transmission oil filter		Replace	⊙					○						○			every 300 Hr	61		
4	Transmission fluid		Change	⊙					○						○			every 300 Hr	60		
5	Transmission strainer		Clean						○						○			every 300 Hr	61		
6	Front axle case oil		Change						○						○			every 300 Hr	62		
7	Front axle pivot		Adjust								○							every 400 Hr	62		
8	Engine start system		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	51		
9	Greasing		—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	52		
10	Wheel bolt torque		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53		
11	Battery condition		Check		○		○		○		○		○		○		○	every 100 Hr	53,54	*5	
12	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	55	*1	@
			Replace															every 1 year	62	*2	
		Secondary element	Replace															every 1 year	62		
13	Fuel filter element		Clean		○		○		○		○		○		○		○	every 100 Hr	56		@
			Replace								○							every 400 Hr	62		
14	Fan belt		Adjust		○		○		○		○		○		○		○	every 100 Hr	56		
15	Clutch		Adjust		○		○		○		○		○		○		○	every 100 Hr	57		
16	Brake		Adjust		○		○		○		○		○		○		○	every 100 Hr	57		
17	Radiator hose and clamp		Check				○				○				○			every 200 Hr	58		
			Replace															every 2 years	64		
18	Fuel line		Check		○		○		○		○		○		○		○	every 100 Hr	55		@
			Replace															every 2 years	64		
19	Intake air line		Check				○				○				○			every 200 Hr	59		@
			Replace															every 2 years	64	*3	
20	Toe-in		Adjust				○				○				○			every 200 Hr	59		
21	Engine valve clearance		Adjust															every 800 Hr	62	*4	
22	Fuel injection nozzle		Check															every 1500 Hr	62	*4	@
23	Injection pump																	every 3000 Hr	62	*4	@
24	Cooling system		Flush															every 2 years	63		
25	Coolant		Change															every 2 years	63		
26	Fuel system		Bleed															Service as required	64		
27	Clutch housing water		Drain																64		
28	Fuse		Replace																65		
29	Light bulb		Replace																65		

IMPORTANT:

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in severe dusty conditions.
- *2 Every year or after 6 cleanings.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants	
		B2710·B2910·B7800		
1	Fuel	26 L (6.9 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below −10°C (14°F)	
2	Coolant (with recovery tank)	4.5 L (4.7 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	4.1 L (4.3 U.S.qts.)	<div>• Engine oil : API Service Classification CD, CE or CF</div> <div><div>Above 25°C (77°F) 0 to 25°C (32 to 77°F) Below 0°C (32°F)</div><div>SAE30, SAE10W-30 or 10W-40 SAE20, SAE10W-30 or 10W-40 SAE10W,SAE10W-30 or 10W-40</div></div>	
4	Transmission case	14.5 L (3.83 U.S.gals.)	•KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case	4.5 L (4.7 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE80·SAE90 gear oil	
6	Greasing	No.of greasing points	Capacity	Type of grease
	Top link	1	Until grease overflows.	Multipurpose type grease
	Lift rod [RH]	1		
	Speed control pedal	1		
	Battery terminal	2	moderate amount	

NOTE: * KUBOTA UDT or SUPER UDT fluid …KUBOTA Original Transmission hydraulic fluid

NOTE:

- Engine oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Transmission oil:
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands or grades.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

B3030 CAB

SERVICE INTERVALS

(Only the Check Points for Tractors with CAB)

No.	Items		Daily	Indication on hour meter								Interval	Ref. page
				100	200	300	400	500	600	700	800		
1	Clogging of air conditioner condenser screen	Clean	○										11
2	Tension of air conditioner drive belt	Adjust			○		○		○		○	every 200 Hr	11
3	Clogging of inner air filter	Clean			○		○		○		○	every 200 Hr	11
4	Clogging of fresh air filter	Clean			○		○		○		○	every 200 Hr	12
5	Clogging of air conditioner condenser	Check			○		○		○		○	every 200 Hr	12
6	Air conditioner pipes and hoses	Check										every 1 year	13
		Replace										every 2 years	13
7	CAB isolation cushion	Check										every 1 year	13
8	Washer liquid	Check										service as required	13
9	Amount of refrigerant (gas)	Check										service as required	14

MAINTENANCE

B3200, B3300SU

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	⊙			○				○				○			every 200 Hr	52		
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	52		
3	Transmission oil filter [HST]	Replace	⊙			○				○				○			every 200 Hr	53		
4	Hydraulic oil filter	Replace								○							every 400 Hr	56		
5	Transmission fluid	Change								○							every 400 Hr	56		
6	Transmission strainer	Clean								○							every 400 Hr	57		
7	Front axle case oil	Change								○							every 400 Hr	58		
8	Front axle pivot	Adjust								○							every 400 Hr	55		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	46		
10	Greasing	---	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	45		
11	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	47		
12	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	47	*5	
13	Air cleaner element	Primary element	Clean	○		○		○		○		○		○		○	every 100 Hr	49	*1	@
		Replace															every 1 year	58	*2	
		Secondary element	Replace														every 1 year	58		
14	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	49		@
		Replace								○							every 400 Hr	57		
15	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	50		
16	Clutch	Adjust	⊙	○		○		○		○		○		○		○	every 100 Hr	50		
17	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	51		
18	Radiator hose and clamp	Check				○				○				○			every 200 Hr	54		
		Replace															every 2 years	60		
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	51		@
		Replace															every 2 years	60	*4	
20	Intake air line	Check				○				○				○			every 200 Hr	54	*4	@
		Replace															every 2 years	60		
21	Toe-in	Adjust				○				○				○			every 200 Hr	55		
22	Engine valve clearance	Adjust															every 800 Hr	58	*4	
23	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	58	*4	@
24	Injection pump	Check															every 3000 Hr	58	*4	@
25	Cooling system	Flush															every 2 years	58		
26	Coolant	Change															every 2 years	58		
27	Fuel system	Bleed																60		
28	Clutch housing water	Drain															Service as required	60		
29	Fuse	Replace																61		
30	Light bulb	Replace																61		

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in server dusty conditions.
- *2 Every year or after 6 cleanings.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		B3200	B3300SU		
1	Fuel	31 L (8.1 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)	
2	Coolant (with recovery tank)	4.5 L (4.7 U.S.qts.)		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	5.4 L (5.7 U.S.qts.)		● Engine oil : Refer to next page	
				Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
				0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
				Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	14.5 L (3.83 U.S.gals.)		● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case	4.5 L (4.7 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points		Capacity	Type of grease
	Speed control pedal	1		Until grease overflow.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Clutch pedal	1			
	Top link	1			
	Lifting rod (RH)	1			
	Battery terminal	2		Moderate amount	

NOTE: *KUBOTA SUPER UDT fluid--- KUBOTA original transmission hydraulic fluid

B3200, B3300SU

NOTE :**◆ Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	B3200, B3300SU	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

B7410, B7510, B7610

SERVICE INTERVALS

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine oil	Change	⊙	○		○		○		○		○		○		○	every 100 Hr	54	
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	58	
3	Transmission oil filter	Replace	⊙					○						○			every 300 Hr	62	
4	Transmission fluid	Change	⊙					○						○			every 300 Hr	60	
5	Transmission strainer	Clean						○						○			every 300 Hr	60	
6	Front axle case oil	Change						○						○			every 300 Hr	62	
7	Front axle pivot	Adjust								○							every 400 Hr	63	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	51	
9	Greasing	---	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	52	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	52	
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	53	*5
12	Air cleaner element	Primary element	Clean	○		○		○		○		○		○		○	every 100 Hr	55	*1
		Replace															every 1 year	63	*2
		Secondary element	Replace														every 1 year	63	@
13	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 Hr	56	@
		Replace								○							every 400 Hr	63	
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	57	
15	Clutch	Adjust	⊙	○		○		○		○		○		○		○	every 100 Hr	57	
16	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	58	
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	59	
		Replace															every 2 years	64	
18	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	56	@
		Replace															every 2 years	64	
19	Intake air line	Check				○				○				○			every 200 Hr	59	*3
		Replace															every 2 years	65	@
20	Engine valve clearance	Adjust															every 800 Hr	63	*4
21	Fuel injection nozzle	Check															every 1500 Hr	63	*4
22	Injection pump	Check															every 3000 Hr	63	*4
23	Cooling system	Flush															every 2 years	63	
24	Coolant	Change															every 2 years	63	
25	Fuel system	Bleed															Service as required	65	
26	Clutch housing water	Drain																65	
27	Fuse	Replace																65	
28	Light bulb	Replace																66	

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in server dusty conditions.
- *2 Every year or after 6 cleanings.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the fluid level annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities					Lubricants	
		B7410DT	B7510HSD	B7510DT	B7510DTN	B7610HSD		
1	Fuel	14 L (3.7 U.S.gals.)	20 L (5.3 U.S.gals.)			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)		
2	Coolant (with recovery tank)	2.7 L (2.9 U.S.qts.)	3.8 L (4.0 U.S.qts.)			Fresh clean water with anti-freeze		
3	Engine crankcase (with filter)	2.4 L (2.5 U.S.qts.)	3.0 L (3.2 U.S.qts.)			● Engine oil : API Service Classification CD, CE or CF		
						Above 25°C(77°F)		SAE30, SAE10W-30 or 15W-40
						0 to 25°C (32 to 77°F)		SAE20, SAE10W-30 or 15W-40
						Below 0°C(32°F)		SAE10W, SAE10W-30 or 15W-40
4	Transmission case	Front case: 1.2 L (0.32 U.S.gals.) Rear case: 11.8 L (3.12 U.S.gals.)	15.3 L (4.04 U.S.gals.)	13.6 L (3.57 U.S.gals.)		15.3 L (4.04 U.S.gals.)	● KUBOTA SUPER UDT fluid*	
5	Front axle case	3.2 L (3.4 U.S.qts.)			3.0 L (3.2 U.S.qts.)	3.2 L (3.4 U.S.qts.)	● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points					Capacity	Type of grease
	Speed control pedal	1					until grease overflow	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Top link	1						
	Lifting rod (RH)	1						
	Battery terminal	2					moderate amount	

NOTE: *KUBOTA SUPER UDT fluid--- KUBOTA original transmission hydraulic fluid

NOTE :**◆ Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel employed.

○: Recommendable X: Not Recommendable

B7410, B7510, B7610

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ **Transmission oil:**

- The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands or grades.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

BX1500, 1830, 2230

SERVICE INTERVALS

No.	Items		Indication on hour meter								Since then	Ref. page		
			50	100	150	200	250	300	350	400	450			
1	Engine oil	Change	⊙	○		○		○		○		every 100 Hr	45	
2	Engine oil filter	Replace	⊙			○				○		every 200 Hr	49	
3	Transmission oil filter	Replace	⊙					○				every 300 Hr	52	
4	Transmission fluid	Change	⊙					○				every 300 Hr	51	
5	Transmission strainer	Clean						○				every 300 Hr	51	
6	Front axle case oil	Change						○				every 300 Hr	53	
7	Front axle pivot	Adjust								○		every 400 Hr	53	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	41	
9	Greasing	--	○	○	○	○	○	○	○	○	○	every 50 Hr	42	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	43	
11	Battery condition	Check		○		○		○		○		every 100 Hr	43	*5
12	Air cleaner element	Clean		○		○		○		○		every 100 Hr	46	*1
		Replace										every 1 year	54	*2
13	Fuel filter element	Check		○		○		○		○		every 100 Hr	46	
		Replace										every 500 Hr	53	
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	47	
15	HST neutral spring	Adjust		○		○		○		○		every 100 Hr	47	
16	Brake	Adjust		○		○		○		○		every 100 Hr	48	
17	Radiator hose and clamp	Check				○				○		every 200 Hr	49	
		Replace										every 2 year	55	
18	Power steering oil line	Check				○				○		every 200 Hr	51	
		Replace										every 2 year	55	
19	Fuel line	Check		○		○		○		○		every 100 Hr	46	
		Replace										every 2 year	55	
20	Intake air line	Check				○				○		every 200 Hr	50	
		Replace										every 2 year	55	*3
21	Toe-in	Adjust				○				○		every 200 Hr	50	
22	Engine valve clearance	Adjust										every 800 Hr	53	*4
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	54	*4
24	Injection pump	Check										every 3000 Hr	54	*4
25	Cooling system	Flush										every 2 year	54	
26	Coolant	Change										every 2 year	54	
27	Fuel system	Bleed										Service as required	55	
28	Fuse	Replace											56	
29	Light bulb	Replace											56	

BX1500, 1830, 2230

No.	Items		Indication on hour meter					Since then	Ref. page		
			500	550	600	650	700				
1	Engine oil	Change	○		○		○	every 100 Hr	45		
2	Engine oil filter	Replace			○			every 200 Hr	49		
3	Transmission oil filter	Replace			○			every 300 Hr	52		
4	Transmission fluid	Change			○			every 300 Hr	51		
5	Transmission strainer	Clean			○			every 300 Hr	51		
6	Front axle case oil	Change			○			every 300 Hr	53		
7	Front axle pivot	Adjust						every 400 Hr	53		
8	Engine start system	Check	○	○	○	○	○	every 50 Hr	41		
9	Greasing	--	○	○	○	○	○	every 50 Hr	42		
10	Wheel bolt torque	Check	○	○	○	○	○	every 50 Hr	43		
11	Battery condition	Check	○		○		○	every 100 Hr	43	*5	
12	Air cleaner element	Clean	○		○		○	every 100 Hr	46	*1	@
		Replace						every 1 year	54	*2	
13	Fuel filter element	Check	○		○		○	every 100 Hr	46		@
		Replace	○					every 500 Hr	53		
14	Fan belt	Adjust	○		○		○	every 100 Hr	47		
15	HST neutral spring	Adjust	○		○		○	every 100 Hr	47		
16	Brake	Adjust	○		○		○	every 100 Hr	48		
17	Radiator hose and clamp	Check			○			every 200 Hr	49		
		Replace						every 2 year	55		
18	Power steering oil line	Check			○			every 200 Hr	51		
		Replace						every 2 year	55		
19	Fuel line	Check	○		○		○	every 100 Hr	46		@
		Replace						every 2 year	55		
20	Intake air line	Check			○			every 200 Hr	50		@
		Replace						every 2 year	55	*3	
21	Toe-in	Adjust			○			every 200 Hr	50		
22	Engine valve clearance	Adjust						every 800 Hr	53	*4	
23	Fuel injection nozzle Injection pressure	Check						every 1500 Hr	54	*4	@
24	Injection pump	Check						every 3000 Hr	54	*4	@
25	Cooling system	Flush						every 2 year	54		
26	Coolant	Change						every 2 year	54		
27	Fuel system	Bleed						Service as required	55		
28	Fuse	Replace							56		
29	Light bulb	Replace							56		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities			Lubricants	
		BX1500	BX1830	BX2230		
1	Fuel	17 L (4.5 U.S.gals.)	21 L (5.5 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant (with recovery tank)	2.9 L (3.1 U.S.qts.)		3.1 L (3.2 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	1.9 L (2.0 U.S.qts.)		2.8 L (2.9 U.S.qts.)	● Engine oil : API Service Classification CD, CE or CF	
					Above 25 °C (77 °F)	SAE30, SAE10W-30 or 10W-40
					0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 10W-40
					Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 10W-40
4	Transmission case	10.1 L (2.7 U.S.gals.)			● KUBOTA SUPER UDT fluid*	
5	Front axle case (4WD only)	2.3 L (2.4 U.S.qts.)	4.7 L (5.0 U.S.qts.)		● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points			Capacity	Type of grease
	Battery terminal	2			moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Speed control pedal	1			until grease overflow	

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

NOTE :

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur fuel is employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

BX1850, BX2350

SERVICE INTERVALS

No.	Items		Indication on hour meter								Since then	Ref. page		
			50	100	150	200	250	300	350	400	450			
1	Engine oil	Change	⊙	○		○		○		○		every 100 Hr	48	
2	Engine oil filter	Replace	⊙			○				○		every 200 Hr	51	
3	Transmission oil filter	Replace	⊙					○				every 300 Hr	55	
4	Transmission fluid	Change	⊙					○				every 300 Hr	54	
5	Transmission strainer	Clean						○				every 300 Hr	54	
6	Front axle case oil	Change						○				every 300 Hr	55	
7	Front axle pivot	Adjust								○		every 400 Hr	56	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	45	
9	Greasing	--	○	○	○	○	○	○	○	○	○	every 50 Hr	44	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	46	
11	Battery condition	Check		○		○		○		○		every 100 Hr	46	*5
12	Air cleaner element	Clean		○		○		○		○		every 100 Hr	49	*1
		Replace										every 1 year	56	*2
13	Fuel filter element	Check		○		○		○		○		every 100 Hr	49	
		Replace										every 500 Hr	56	
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	50	
15	HST neutral spring	Adjust		○		○		○		○		every 100 Hr	50	
16	Brake	Adjust		○		○		○		○		every 100 Hr	51	
17	Radiator hose and clamp	Check				○				○		every 200 Hr	52	
		Replace										every 2 years	58	
18	Power steering oil line	Check				○				○		every 200 Hr	53	
		Replace										every 2 years	58	
19	Fuel line	Check		○		○		○		○		every 100 Hr	49	
		Replace										every 2 years	58	
20	Intake air line	Check				○				○		every 200 Hr	52	
		Replace										every 2 years	58	*4
21	Toe-in	Adjust				○				○		every 200 Hr	53	
22	Engine valve clearance	Adjust										every 800 Hr	56	*4
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	56	*4
24	Injection pump	Check										every 3000 Hr	56	*4
25	Cooling system	Flush										every 2 years	56	
26	Coolant	Change										every 2 years	56	
27	Fuel system	Bleed										Service as required	58	
28	Fuse	Replace											59	
29	Light bulb	Replace											59	

BX1850, BX2350

No.	Items		Indication on hour meter					Since then	Ref. page		
			500	550	600	650	700				
1	Engine oil	Change	○		○		○	every 100 Hr	48		
2	Engine oil filter	Replace			○			every 200 Hr	51		
3	Transmission oil filter	Replace			○			every 300 Hr	55		
4	Transmission fluid	Change			○			every 300 Hr	54		
5	Transmission strainer	Clean			○			every 300 Hr	54		
6	Front axle case oil	Change			○			every 300 Hr	55		
7	Front axle pivot	Adjust						every 400 Hr	56		
8	Engine start system	Check	○	○	○	○	○	every 50 Hr	45		
9	Greasing	--	○	○	○	○	○	every 50 Hr	44		
10	Wheel bolt torque	Check	○	○	○	○	○	every 50 Hr	46		
11	Battery condition	Check	○		○		○	every 100 Hr	46	*5	
12	Air cleaner element	Clean	○		○		○	every 100 Hr	49	*1	@
		Replace						every 1 year	56	*2	
13	Fuel filter element	Check	○		○		○	every 100 Hr	49		@
		Replace	○					every 500 Hr	56		
14	Fan belt	Adjust	○		○		○	every 100 Hr	50		
15	HST neutral spring	Adjust	○		○		○	every 100 Hr	50		
16	Brake	Adjust	○		○		○	every 100 Hr	51		
17	Radiator hose and clamp	Check			○			every 200 Hr	52		
		Replace						every 2 years	58		
18	Power steering oil line	Check			○			every 200 Hr	53		
		Replace						every 2 years	58		
19	Fuel line	Check	○		○		○	every 100 Hr	49		@
		Replace						every 2 years	58		
20	Intake air line	Check			○			every 200 Hr	52		@
		Replace						every 2 years	58	*4	
21	Toe-in	Adjust			○			every 200 Hr	53		
22	Engine valve clearance	Adjust						every 800 Hr	56	*4	
23	Fuel injection nozzle Injection pressure	Check						every 1500 Hr	56	*4	@
24	Injection pump	Check						every 3000 Hr	56	*4	@
25	Cooling system	Flush						every 2 years	56		
26	Coolant	Change						every 2 years	56		
27	Fuel system	Bleed						Service as required	58		
28	Fuse	Replace							59		
29	Light bulb	Replace							59		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants
		BX1850	BX2350	
1	Fuel	25 L (6.6 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with recovery tank)	2.9 L (3.06 U.S.qts.)	3.1 L (3.3 U.S.qts.)	Fresh clean water with anti-freeze
3	Engine crankcase	2.9 L (3.06 U.S.qts.)	3.1 L (3.3 U.S.qts.)	• Engine oil : API Service Classification CD, CE or CF
				Above 25 °C (77 °F)
				SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)
4	Transmission case	11.6 L (3.1 U.S.gals.)		• KUBOTA SUPER UDT fluid*
5	Front axle case	2.3 L (2.4 U.S.qts.)	4.7 L (5.0 U.S.qts.)	• KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil
6	Greasing	No. of greasing points		Capacity
	Battery terminal	2		moderate amount
	Speed control pedal	1		until grease overflow

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

BX1850, BX2350

NOTE :

◆ Engine oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur fuel is employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission oil:

- The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

BX1860, 2360

SERVICE INTERVALS

No.	Items		Indication on hour meter									Since then	Ref. page		
			50	100	150	200	250	300	350	400	450				
1	Engine oil	Change	⊙			○				○		every 200 Hr	51		
2	Engine oil filter	Replace	⊙			○				○		every 200 Hr	50		
3	Transmission oil filter	Replace	⊙			○				○		every 200 Hr	52		
4	Transmission fluid	Change								○		every 400 Hr	55		
5	Transmission strainer	Clean	⊙							○		every 400 Hr	55		
6	Front axle case oil	Change								○		every 400 Hr	56		
7	Front axle pivot	Adjust								○		every 400 Hr	54		
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	45		
9	Greasing	--	○	○	○	○	○	○	○	○	○	every 50 Hr	44		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	46		
11	Battery condition	Check		○		○		○		○		every 100 Hr	46	*5	
12	Air cleaner element	Clean		○		○		○		○		every 100 Hr	48	*1	@
		Replace										every 1 year	56	*2	
13	Fuel filter	Check		○		○		○		○		every 100 Hr	48		@
		Replace										every 500 Hr	56	*4	
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	49		
15	HST neutral spring	Adjust		○		○		○		○		every 100 Hr	49		
16	Brake pedal	Adjust		○		○		○		○		every 100 Hr	50		
17	Radiator hose and clamp	Check				○				○		every 200 Hr	52		
		Replace										every 2 years	58		
18	Power steering oil line	Check				○				○		every 200 Hr	54		
		Replace										every 2 years	58	*4	
19	Fuel line	Check		○		○		○		○		every 100 Hr	48		@
		Replace										every 2 years	58	*4	
20	Intake air line	Check				○				○		every 200 Hr	53		@
		Replace										every 2 years	58	*4	
21	Toe-in	Adjust				○				○		every 200 Hr	53		
22	Engine valve clearance	Adjust										every 800 Hr	56	*4	
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	56	*4	@
24	Injection pump	Check										every 3000 Hr	56	*4	@
25	Cooling system	Flush										every 2 years	56		
26	Coolant	Change										every 2 years	56		
27	Fuel system	Bleed										Service as required	58		
28	Fuse	Replace											59		
29	Light bulb	Replace											59		

BX1860, 2360

No.	Items		Indication on hour meter					Since then	Ref. page		
			500	550	600	650	700				
1	Engine oil	Change			○			every 200 Hr	51		
2	Engine oil filter	Replace			○			every 200 Hr	50		
3	Transmission oil filter	Replace			○			every 200 Hr	52		
4	Transmission fluid	Change						every 400 Hr	55		
5	Transmission strainer	Clean						every 400 Hr	55		
6	Front axle case oil	Change						every 400 Hr	56		
7	Front axle pivot	Adjust						every 400 Hr	54		
8	Engine start system	Check	○	○	○	○	○	every 50 Hr	45		
9	Greasing	--	○	○	○	○	○	every 50 Hr	44		
10	Wheel bolt torque	Check	○	○	○	○	○	every 50 Hr	46		
11	Battery condition	Check	○		○		○	every 100 Hr	46	*5	
12	Air cleaner element	Clean	○		○		○	every 100 Hr	48	*1	@
		Replace						every 1 year	56	*2	
13	Fuel filter	Check	○		○		○	every 100 Hr	48		@
		Replace	○					every 500 Hr	56	*4	
14	Fan belt	Adjust	○		○		○	every 100 Hr	49		
15	HST neutral spring	Adjust	○		○		○	every 100 Hr	49		
16	Brake pedal	Adjust	○		○		○	every 100 Hr	50		
17	Radiator hose and clamp	Check			○			every 200 Hr	52		
		Replace						every 2 years	58		
18	Power steering oil line	Check			○			every 200 Hr	54		
		Replace						every 2 years	58	*4	
19	Fuel line	Check	○		○		○	every 100 Hr	48		@
		Replace						every 2 years	58	*4	
20	Intake air line	Check			○			every 200 Hr	53		@
		Replace						every 2 years	58	*4	
21	Toe-in	Adjust			○			every 200 Hr	53		
22	Engine valve clearance	Adjust						every 800 Hr	56	*4	
23	Fuel injection nozzle Injection pressure	Check						every 1500 Hr	56	*4	@
24	Injection pump	Check						every 3000 Hr	56	*4	@
25	Cooling system	Flush						every 2 years	56		
26	Coolant	Change						every 2 years	56		
27	Fuel system	Bleed						Service as required	58		
28	Fuse	Replace							59		
29	Light bulb	Replace							59		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		BX1860	BX2360		
1	Fuel	25 L (6.6 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant (with recovery tank)	2.9 L (3.06 U.S.qts.)	3.1 L (3.3 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	2.9 L (3.06 U.S.qts.)	3.1 L (3.3 U.S.qts.)	● Engine oil : API Service Classification CF or better	
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	11.6 L (3.1 U.S.gals.)		● KUBOTA SUPER UDT fluid*	
5	Front axle case	2.3 L (2.4 U.S.qts.)	4.7 L (5.0 U.S.qts.)	● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points		Capacity	Type of grease
	Battery terminal	2		moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Speed control pedal	1		until grease overflow	

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

BX1860, 2360

NOTE :**◆ Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE OF THE TRACTOR BX24

SERVICE INTERVALS

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine oil	Change	⊙	○		○		○		○		○		○		○	every 100 Hr	74	
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	77	
3	Transmission oil filter	Replace	⊙					○						○			every 300 Hr	81	
4	Transmission fluid	Change	⊙					○						○			every 300 Hr	80	
5	Transmission strainer	Clean						○						○			every 300 Hr	80	
6	Front axle case oil	Change						○						○			every 300 Hr	81	
7	Front axle pivot	Adjust								○							every 400 Hr	82	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	71	
9	Greasing	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	72	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	72	
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	73	*5
12	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	75	*1
		Replace															every 1 year	82	*2
13	Fuel filter	Check		○		○		○		○		○		○		○	every 100 Hr	75	@
		Replace										○					every 500 Hr	82	
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	76	
15	HST neutral spring	Adjust		○		○		○		○		○		○		○	every 100 Hr	76	
16	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	77	
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	78	
		Replace															every 2 years	83	
18	Power steering oil line	Check				○				○				○			every 200 Hr	79	
		Replace															every 2 years	83	
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	75	@
		Replace															every 2 years	83	
20	Intake air line	Check				○				○				○			every 200 Hr	79	@
		Replace															every 2 years	83	
21	Toe-in	Adjust				○				○				○			every 200 Hr	78	
22	Engine valve clearance	Adjust															every 800 Hr	82	*4
23	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	82	*4 @
24	Injection pump	Check															every 3000 Hr	82	*4 @
25	Cooling system	Flush															every 2 years	82	
26	Coolant	Change															every 2 years	82	
27	Fuel system	Bleed															Service as required	84	
28	Fuse	Replace																84	
29	Light bulb	Replace																85	

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants	
1	Fuel	25 L (6.6 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14 °F)	
2	Coolant (with recovery tank)	3.1 L (3.3 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	3.1 L (3.3 U.S.qts.)	<div>● Engine oil : API Service Classification CD, CE or CF</div> <div><div><div>Above 25°C (77°F) 0 to 25°C (32 to 77°F) Below 0°C (32°F)</div><div>SAE30, SAE10W-30 or 10W-40 SAE20, SAE10W-30 or 10W-40 SAE10W, SAE10W-30 or 10W-40</div></div></div>	
4	Transmission case	11.6 L (3.1 U.S.gals.)	● KUBOTA SUPER UDT fluid*	
5	Front axle case	4.7 L (5.0 U.S.qts.)	● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	Battery terminal	2	moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Speed control pedal	1	until grease overflow	

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

NOTE :

- Engine oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○	X	
CG-4	○	X	

BX24

- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance.

(Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE OF THE TRACTOR BX25

SERVICE INTERVALS

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine oil	Change	⊙			○				○				○			every 200 Hr	78	
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	77	
3	Transmission oil filter	Replace	⊙			○				○				○			every 200 Hr	78	
4	Transmission fluid	Change								○							every 400 Hr	81	
5	Transmission strainer	Clean	⊙							○							every 400 Hr	82	
6	Front axle case oil	Change								○							every 400 Hr	82	
7	Front axle pivot	Adjust								○							every 400 Hr	81	
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	72	
9	Greasing	--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	71	
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	73	
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	73	*5
12	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	75	*1
		Replace															every 1 year	83	*2
13	Fuel filter	Check		○		○		○		○		○		○		○	every 100 Hr	75	@
		Replace										○					every 500 Hr	83	
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	76	
15	HST neutral spring	Adjust		○		○		○		○		○		○		○	every 100 Hr	76	
16	Brake pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	77	
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	79	
		Replace															every 2 years	84	
18	Power steering oil line	Check				○				○				○			every 200 Hr	80	
		Replace															every 2 years	84	*4
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	75	@
		Replace															every 2 years	84	
20	Intake air line	Check				○				○				○			every 200 Hr	79	@
		Replace															every 2 years	84	
21	Toe-in	Adjust				○				○				○			every 200 Hr	80	
22	Engine valve clearance	Adjust															every 800 Hr	83	*4
23	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	83	*4 @
24	Injection pump	Check															every 3000 Hr	83	*4 @
25	Cooling system	Flush															every 2 years	83	
26	Coolant	Change															every 2 years	83	
27	Fuel system	Bleed															Service as required	84	
28	Fuse	Replace																85	
29	Light bulb	Replace																85	

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lubricants	
1	Fuel	25 L (6.6 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10°C(14°F)	
2	Coolant (with recovery tank)	3.1 L (3.3 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	3.1 L (3.3 U.S.qts.)	● Engine oil : API Service Classification CF or better	
			Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
			0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
			Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	11.6 L (3.1 U.S.gals.)	● KUBOTA SUPER UDT fluid*	
5	Front axle case	4.7 L (5.0 U.S.qts.)	● KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	Battery terminal	2	moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Speed control pedal	1	until grease overflow	

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

BX25

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

BX2660

SERVICE INTERVALS

No.	Items		Indication on hour meter									Since then	Ref. page		
			50	100	150	200	250	300	350	400	450				
1	Engine oil	Change	⊙			○				○		every 200 Hr	53		
2	Engine oil filter	Replace	⊙			○				○		every 200 Hr	52		
3	Transmission oil filter	Replace	⊙			○				○		every 200 Hr	53		
4	Transmission fluid	Change								○		every 400 Hr	56		
5	Transmission strainer	Clean	⊙							○		every 400 Hr	57		
6	Front axle case oil	Change								○		every 400 Hr	57		
7	Front axle pivot	Adjust								○		every 400 Hr	56		
8	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	47		
9	Greasing	--	○	○	○	○	○	○	○	○	○	every 50 Hr	46		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	48		
11	Battery condition	Check		○		○		○		○		every 100 Hr	48	*5	
12	Air cleaner element	Clean		○		○		○		○		every 100 Hr	50	*1	@
		Replace										every 1 year	58	*2	
13	Fuel filter element	Check		○		○		○		○		every 100 Hr	50		@
		Replace										every 500 Hr	57	*4	
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	51		
15	HST neutral spring	Adjust		○		○		○		○		every 100 Hr	51		
16	Brake	Adjust		○		○		○		○		every 100 Hr	52		
17	Radiator hose and clamp	Check				○				○		every 200 Hr	54		
		Replace										every 2 years	59		
18	Power steering oil line	Check				○				○		every 200 Hr	55		
		Replace										every 2 years	59	*4	
19	Fuel line	Check		○		○		○		○		every 100 Hr	50		@
		Replace										every 2 years	59	*4	
20	Intake air line	Check				○				○		every 200 Hr	54		@
		Replace										every 2 years	59	*4	
21	Toe-in	Adjust				○				○		every 200 Hr	55		
22	Engine valve clearance	Adjust										every 800 Hr	57	*4	
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	57	*4	@
24	Injection pump	Check										every 3000 Hr	57	*4	@
25	Cooling system	Flush										every 2 years	58		
26	Coolant	Change										every 2 years	58		
27	Fuel system	Bleed										Service as required	60		
28	Fuse	Replace											60		
29	Light bulb	Replace											61		

BX2660

No.	Items		Indication on hour meter					Since then	Ref. page		
			500	550	600	650	700				
1	Engine oil	Change			○			every 200 Hr	53		
2	Engine oil filter	Replace			○			every 200 Hr	52		
3	Transmission oil filter	Replace			○			every 200 Hr	53		
4	Transmission fluid	Change						every 400 Hr	56		
5	Transmission strainer	Clean						every 400 Hr	57		
6	Front axle case oil	Change						every 400 Hr	57		
7	Front axle pivot	Adjust						every 400 Hr	56		
8	Engine start system	Check	○	○	○	○	○	every 50 Hr	47		
9	Greasing	--	○	○	○	○	○	every 50 Hr	46		
10	Wheel bolt torque	Check	○	○	○	○	○	every 50 Hr	48		
11	Battery condition	Check	○		○		○	every 100 Hr	48	*5	
12	Air cleaner element	Clean	○		○		○	every 100 Hr	50	*1	@
		Replace						every 1 year	58	*2	
13	Fuel filter element	Check	○		○		○	every 100 Hr	50		@
		Replace	○					every 500 Hr	57	*4	
14	Fan belt	Adjust	○		○		○	every 100 Hr	51		
15	HST neutral spring	Adjust	○		○		○	every 100 Hr	51		
16	Brake	Adjust	○		○		○	every 100 Hr	52		
17	Radiator hose and clamp	Check			○			every 200 Hr	54		
		Replace						every 2 years	59		
18	Power steering oil line	Check			○			every 200 Hr	55		
		Replace						every 2 years	59	*4	
19	Fuel line	Check	○		○		○	every 100 Hr	50		@
		Replace						every 2 years	59	*4	
20	Intake air line	Check			○			every 200 Hr	54		@
		Replace						every 2 years	59	*4	
21	Toe-in	Adjust			○			every 200 Hr	55		
22	Engine valve clearance	Adjust						every 800 Hr	57	*4	
23	Fuel injection nozzle Injection pressure	Check						every 1500 Hr	57	*4	@
24	Injection pump	Check						every 3000 Hr	57	*4	@
25	Cooling system	Flush						every 2 years	58		
26	Coolant	Change						every 2 years	58		
27	Fuel system	Bleed						Service as required	60		
28	Fuse	Replace							60		
29	Light bulb	Replace							61		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants	
		BX2660		
1	Fuel	25 L (6.6 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant (with recovery tank)	3.3 L (3.5 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	3.5 L (3.7 U.S.qts.)	<ul style="list-style-type: none"> Engine oil : API Service Classification CF or better 	
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	11.6 L (3.1 U.S.gals.)	<ul style="list-style-type: none"> KUBOTA SUPER UDT fluid* 	
5	Front axle case	4.7 L (5.0 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA SUPER UDT fluid* or SAE 80 - SAE90 gear oil 	
6	Greasing	No. of greasing points	Capacity	Type of grease
	Battery terminal	2	moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Speed control pedal	1	until grease overflow	

NOTE: *KUBOTA SUPER UDT --- KUBOTA original transmission hydraulic fluid

BX2660

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

F2680E,F3080,F3680

ENGLISH

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication on hour meter (Hr)												Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	35		
2	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	36		
3	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	38		
4	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	38		
5	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	36	*1	@
		Replace													every 1 year	48		
6	Engine oil	Change	◎	○		○		○		○		○		○	every 100 Hr	40		
7	Fan belt	Adjust		○		○		○		○		○		○	every 100 Hr	42	*2	
8	Brake pedal	Adjust		○		○		○		○		○		○	every 100 Hr	41		
9	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	41		@
		Replace								○					every 400 Hr	47	*2	
10	Engine oil filter	Replace	◎			○				○				○	every 200 Hr	43		
11	Transmission fluid	Change				◎				○				○	every 200 Hr	43		
12	Transmission oil filter	Replace	◎			○				○				○	every 200 Hr	44		
13	Transmission strainer	Clean				◎				○				○	every 200 Hr	45		
14	Rear axle differential case fluid	Change				◎				○				○	every 200 Hr	45		
15	Rear axle gear case (RH & LH) fluid	Change				◎				○				○	every 200 Hr	46		
16	Radiator hose and clamp	Check				○				○				○	every 200 Hr	45		*2
		Replace													every 2 years	49		
17	Hydraulic hose	Check				○				○				○	every 200 Hr	46		*2
		Replace													every 2 years	49		

F2680E,F3080,F3680

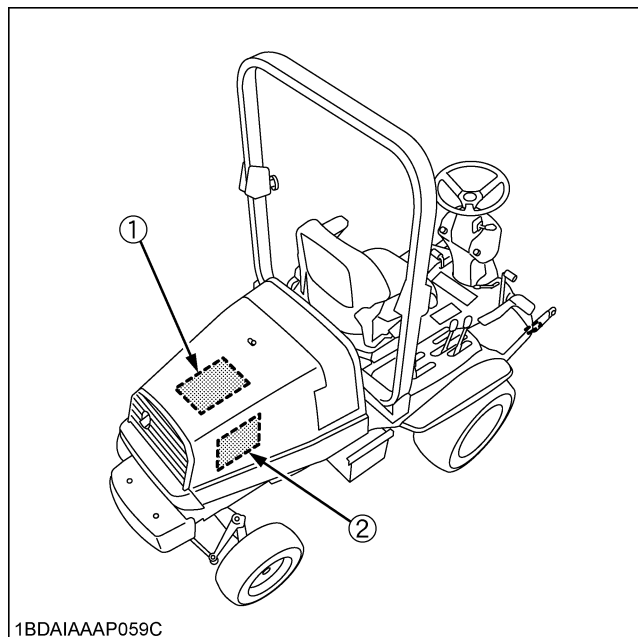
No.	Items		Indication on hour meter (Hr)												Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
18	Fuel line	Check				○				○				○	every 200 Hr	41		@
		Replace													every 2 years	47	*2	
19	Intake air line	Check				○				○				○	every 200 Hr	47		@
		Replace													every 2 years	49	*4	
20	Rear axle pivot	Adjust								○					every 400 Hr	47		
21	Fuel injection nozzle injection pressure	Check													every 1500 Hr	49	*3	@
22	Injection pump	Check													every 3000 Hr	47	*3	@
23	Radiator	Clean													every 1 year	48		
24	Coolant	Change													every 1 year	48		@
25	Fuel system	Bleed													Service as Required	50		
26	Fuse	Replace														49		
27	Light bulb	Replace														50		
28	Lift spring	Adjust														51		

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

PERIODIC SERVICE CHART LABEL

F2680E,F3080,F3680



1BDAIAAP059C

(1) Part No. K3611-4761-5 (ENGLISH)

PERIODIC SERVICE CHART				
INTERVAL		RECOMMENDED SERVICE See Operator's Manual in details.		
DAILY	CHECK	1. Tire pressure, wearing and damage. 2. Oil and water leak from machine and mower. 3. Engine oil, transmission fluid, recovery tank coolant and fuel level. 4. Damage of machine body, tightness of all bolts, nuts and pins, etc. 5. Mower blades and belt wearing or damage. 6. Brake pedal, safety switches and easy checker functions. 7. Color of the exhaust fumes, abnormal noise and vibrations. 8. Seat belt and Rops [Rops type]		
	CLEAN	• Radiator screen, Bonnet screen and Mower deck.		
	GREASE	• Mower U-joint(3 places)/ Spindle shaft(3 places)/ Belt tension pulley(1 place)/ Belt tension pivot(1 place)		
FIRST 50 Hr. (BREAK-IN) (MUST BE DONE)	CHANGE	• Engine oil and Mower Gear box oil.		
FIRST 200 Hr. (MUST BE DONE)	REPLACE	• Engine oil filter and Transmission oil filter.		
E 50 Hr	CHANGE	• Transmission, Rear axle gear case and Differential case fluid		
	CLEAN	• Transmission strainer		
	CHECK	• Safety device, Battery condition and Mower gear box oil.		
V 100 Hr	CLEAN	• Air cleaner element ★		
	GREASE	• Speed control pedal boss / Lift link boss (RH&LH) / Differential lock pedal boss / Universal joint / DT drive shaft (4WD) / Knuckle arm (4WD) / Rear axle pivot (2WD) / Seat adjuster / Cable (Throttle) / universal joint • Front gauge wheels and gauge wheel brackets / Front roller		
	ADJUST	• Fan belt, Brake pedal		
E 150 Hr	CHANGE	• Engine oil		
	CHECK	• Fuel filter element		
	CHANGE	• mower gear box oil.		
E 200 Hr	CHANGE	• Transmission, Rear axle gear case and Differential case fluid		
	CHECK	• Radiator hose and clamp, Hydraulic hose, Fuel line / Intake air line		
	CLEAN	• Transmission strainer		
R 400 Hr	REPLACE	• Engine oil filter, Transmission oil filter		
	ADJUST	• Rear axle pivot		
	REPLACE	• Fuel filter element		
Y 1500 Hr	CHECK	• Fuel Injection Nozzle Injection Pressure ☆		
	3000 Hr	CHECK	• Injection Pump ☆	
	CHANGE	• Coolant		
Y 1 year	CLEAN	• Radiator		
	REPLACE	• Air cleaner element		
	2 year	REPLACE	• Radiator hose and clamp, Hydraulic hose, Fuel line ☆ Mower gear box oil seal ☆ Intake air line ☆	
☆ : SHOULD BE SERVICED BY KUBOTA DEALER. ★ : REQUIRED MORE OFTEN IN DUSTY CONDITIONS. Tire maximum pressure and tightening torque recommendation.				
Tire sizes		Inflation Pressure	tightening trzue.	
Front	4WD	24x12.0-12	140 kPa (20psi)	
	2WD	23x10.5-12		
Rear	4WD	18x 9.5-8	250 kPa (36psi)	
	2WD	16X 6.5-8		
			-	
Approximate fluid capacities.				
Engine : F2680E, F2880 (D1105) - 3.5L (3.69 U.S.qts.) / F3080 (D1305) - 5.1L (5.4 U.S.qts.) F3680 (V1505) - 5.0L (5.28 U.S.qts.) Radiator : 4.6L (4.86 U.S.qts.) / Reserve tank: 0.6L (0.63 U.S.qts.) Transmission : 14L (14.79 U.S.qts.) / Differential case : 1.5L (1.59 U.S.qts.) Rear axle gear case : 0.5L (0.53 U.S.qts.) / Mower gear box: 0.4L (0.42 U.S.qts.)				

1BDAIATAP007A

(2) Part No. K3611-4751-5 (SPANISH)

LISTA DE SERVICIOS PERIÓDICOS			
INTERVALO		SERVICIO RECOMENDADO	
DIARIO	COMPROBACIÓN	1. Presión, desgaste y daños de neumáticos. 2. Fugas de aceite y agua de la máquina y segadora 3. Aceite de motor, líquido de la transmisión, nivel de combustible y refrigerante en el depósito de recuperación 4. Daños en la carrocería de la máquina, apriete de tornos, tuercas, pasadores, etc. 5. Desgaste o daños de correa y cuchillas de la segadora 6. Pedal de freno, interruptores de seguridad y funciones fáciles del comprobador 7. Color del humo de escape, ruidos y vibraciones anormales 8. Cinturón de seguridad y Rops (tipo Rops)	
	LIMPIEZA	● Pantalla de radiador, pantalla de capó y plataforma de segadora	
	ENGRASE	● Unión en U de segadora (3 lugares) / husillo (3 lugares) / polea de tensión de correa (1 lugar) / pivote de tensión de la correa (1 lugar)	
PRIMERAS 50 horas (RODAJE) (DEBE REALIZARSE)	CAMBIO	● Aceite de motor y aceite de caja de engranajes de segadora	
	REEMPLAZO	● Filtro de aceite del motor y filtro de aceite de transmisión	
PRIMERAS 200 horas (DEBE REALIZARSE)	CAMBIO	● Líquido de la transmisión, caja de engranajes del eje trasero y caja de diferencial	
	LIMPIEZA	● Filtro de transmisión	
C 50 horas	COMPROBACIÓN	● Dispositivo de seguridad, condición de la batería y aceite de la caja de engranajes de la segadora	
	LIMPIEZA	● Elemento del filtro de aire ★	
	ENGRASE	● Resultado de pedal de control de velocidad / resalto de enlace de elevación (DE, IZ, J) / resalto de pedal de bloqueo de diferencial / junta universal (árbol de transmisión DT (4WD) / brazo de mangueta (4WD) / pivote de eje trasero (2WD) / regulador de asiento / cable (acelerador) / junta universal. ● Ruedas delanteras y mensulas de ruedas / rodillo delantero	
A 100 horas	AJUSTE	● Correa de ventilador, pedal de freno	
	CAMBIO	● Aceite de motor	
	COMPROBACIÓN	● Elemento de filtro de combustible	
D 150 horas	CAMBIO	● Aceite de la caja de engranajes de la segadora	
	CAMBIO	● Líquido de transmisión, caja de engranajes de eje trasero y caja de diferencial	
	COMPROBACIÓN	● Manguito de radiador y abrazadera, manguito hidráulico y tubo de combustible	
D 200 horas	LIMPIEZA	● Línea de aire de admisión ★	
	REEMPLAZO	● Filtro de transmisión	
	AJUSTE	● Filtro de aceite del motor, filtro de aceite de transmisión	
A 400 horas	REEMPLAZO	● Pivote de eje trasero	
	REEMPLAZO	● Elemento de filtro de combustible	
	AJUSTE	● Presión de inyección de inyector de combustible ★	
A 1500 horas	COMPROBACIÓN	● Bomba de inyección ★	
	CAMBIO	● Refrigerante	
	LIMPIEZA	● Radiador	
1 año	REEMPLAZO	● Elemento de filtro de aire	
	REEMPLAZO	● Manguito de radiador y abrazadera, manguito hidráulico y tubo de combustible ★	
	REEMPLAZO	● Línea de aire de admisión ★	
2 años	REEMPLAZO	● Retenedor de aceite de la caja de engranajes de la segadora ★	
	REEMPLAZO	● Retenedor de aceite de la caja de engranajes de la segadora ★	
	REEMPLAZO	● Retenedor de aceite de la caja de engranajes de la segadora ★	
★ : DEBERÁ SER REALIZADO POR UN CONCESIONARIO DE KUBOTA. ★ : DEBERÁ HACERSE MÁS A MENUDO EN ZONAS POLVORIENTAS.			
Recomendaciones para la presión máxima y el par de apriete de los neumáticos			
Tamaños de neumáticos		Presión de inflación	Par de apriete
Delanteros	4WD	24 x 12.0-12	140 kPa (20psi)
	2WD	23 x 10.5-12	49.0 Nm (36 ft · lbs)
Traseros	4WD	18 x 9.5-8	250 kPa (36psi)
	2WD	16 x 6.5-8	88.3 Nm (65 ft · lbs)
Capacidades de combustible aproximadas			
Motor : F2680E, F2880 (D1105) - 3.5L / F3080 (D1305) - 5.1L / F3680 (V1505) - 5.0L Radiador : 4.6L / Depósito de reserva : 0.6L Transmisión : 14L / Caja de diferencial : 1.5L Caja de engranajes de eje trasero : 0.5L / Caja de engranajes de la segadora : 0.4L			

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LUBRICANTS

Place	Capacities			Lubricants
	F2680E	F3080	F3680	
Fuel	61 L (16.1 U.S.qts.)			<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)
Coolant	4.6 L (4.9 U.S.qts.)			Fresh clean water with anti-freeze
Recovery tank	0.6 L (0.6 U.S.qts.)			
Engine crankcase	3.5 L (3.7 U.S.qts.)	5.1 L (5.4 U.S.qts.)	5.0 L (5.3 U.S.qts.)	<ul style="list-style-type: none">• Engine oil: API Service Classification CD, CE or CF Above 25 °C (77 °F)SAE30, SAE10W-30 or 15W-40 0 to 25 °C (32 to 77 °F)SAE20, SAE10W-30 or 15W-40 Below 0 °C (32 °F)SAE10W, SAE10W-30 or 15W-40
Transmission case	14 L (14.8 U.S.qts.)			<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1
Rear axle Differential case	1.5 L (1.6 U.S.qts.)			<ul style="list-style-type: none">• KUBOTA UDT, SUPER UDT fluid*1 or SAE85W, SAE90 gear oil (API service classification: more than GL-3)
Rear axle gear case (RH & LH)	0.5 L (0.5 U.S.qts.)			

Greasing	No. of greasing points			Capacity	Type of grease
	F2680E	F3080	F3680		
Speed control pedal shaft	1	1	1	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Lift link boss (RH & LH)	2	2	2		
Differential lock pedal boss	1	1	1		
Universal joint	1	1	1		
Rear wheel drive shaft (F & R for 4WD)	---	2	2		
Knuckle arm (RH & LH for 4WD)	---	2	2		
King pin (RH & LH for 2WD)	2	---	---		
Seat adjuster	2	2	2	Moderate amount	• Oil
HST neutral shaft	1	1	1		
Cable (Throttle)	1	1	1		

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

F2680E,F3080,F3680

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C .

◆ Transmission oil (KUBOTA SUPER UDT *1):

KUBOTA Original Transmission hydraulic fluid

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacity of water and oil are manufacture's estimate.

MAINTENANCE

F2880, F2880E, F3680

ENGLISH

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication on hour meter (Hr)												Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	35		
2	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	36		
3	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	38		
4	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	38		
5	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	36	*1	@
		Replace													every 1 year	47		
6	Engine oil	Change	◎	○		○		○		○		○		○	every 100 Hr	40		
7	Fan belt	Adjust		○		○		○		○		○		○	every 100 Hr	42	*2	
8	Brake pedal	Adjust		○		○		○		○		○		○	every 100 Hr	41		
9	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	41		@
		Replace								○					every 400 Hr	47	*2	
10	Engine oil filter	Replace	◎			○				○				○	every 200 Hr	43		
11	Transmission fluid	Change				◎				○				○	every 200 Hr	43		
12	Transmission oil filter	Replace	◎			○				○				○	every 200 Hr	44		
13	Transmission strainer	Clean				◎				○				○	every 200 Hr	45		
14	Rear axle differential case fluid	Change				◎				○				○	every 200 Hr	45		
15	Rear axle gear case (RH & LH) fluid	Change				◎				○				○	every 200 Hr	46		
16	Radiator hose and clamp	Check				○				○				○	every 200 Hr	45		*2
		Replace													every 2 years	49		
17	Hydraulic hose	Check				○				○				○	every 200 Hr	46		*2
		Replace													every 2 years	49		

F2880, F2880E, F3680

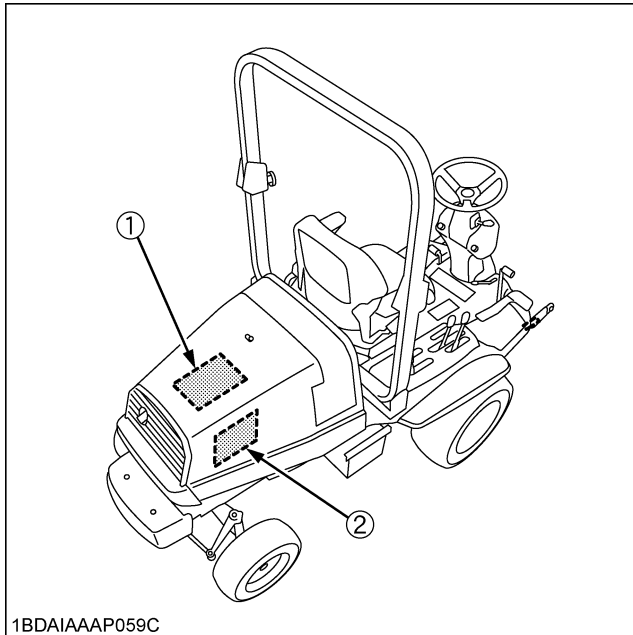
No.	Items		Indication on hour meter (Hr)												Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
18	Fuel line	Check				○				○				○	every 200 Hr	41		@
		Replace													every 2 years	47	*2	
19	Intake air line	Check				○				○				○	every 200 Hr	46		@
		Replace													every 2 years	49	*4	
20	Rear axle pivot	Adjust								○					every 400 Hr	47		
21	Fuel injection nozzle injection pressure	Check													every 1500 Hr	49	*3	@
22	Injection pump	Check													every 3000 Hr	47	*3	@
23	Radiator	Clean													every 1 year	47		
24	Coolant	Change													every 1 year	47		@
25	Fuel system	Bleed													Service as Required	50		
26	Fuse	Replace														49		
27	Light bulb	Replace														49		
28	Lift spring	Adjust														50		

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

PERIODIC SERVICE CHART LABEL

F2880, F2880E, F3680



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(1) Part No. K3611-4761-1 (ENGLISH)

PERIODIC SERVICE CHART				
INTERVAL		RECOMMENDED SERVICE See Operator's Manual in details.		
DAILY	CHECK	1. Tire pressure, wearing and damage. 2. Oil and water leak from machine and mower. 3. Engine oil, transmission fluid, recovery tank coolant and fuel level. 4. Damage of machine body, tightness of all bolts, nuts and pins, etc. 5. Mower blades and belt wearing or damage. 6. Brake pedal, safety switches and easy checker functions. 7. Color of the exhaust fumes, abnormal noise and vibrations. 8. Seat belt and Pops [Rops type]		
	CLEAN	* Radiator screen, Bonnet screen and Mower deck.		
	GREASE	* Mower U-joint (3 places) / Spindle shaft (3 places) / Belt tension pulley (1 place) / Belt tension pivot (1 place)		
FIRST 50 Hr. 【BREAK-IN】 (MUST BE DONE)		CHANGE	* Engine oil and Mower Gear box oil.	
FIRST 200 Hr. (MUST BE DONE)		REPLACE	* Engine oil filter and Transmission oil filter.	
		CHANGE	* Transmission, Rear axle gear case and Differential case fluid	
		CLEAN	* Transmission strainer	
E V E R Y	50 Hr.	CHECK	* Safety device, Battery condition and Mower gear box oil.	
		CLEAN	* Air cleaner element ★	
	GREASE	* Speed control pedal boss / Lift link boss (RH&LH) / Differential lock pedal boss / Universal joint / DT drive shaft (4WD) / K nuckle arm (4WD) / Rear axle pivot (2WD) / Seat adjuster / Cable (Throttle) / universal joint * Front gauge wheels and gauge wheel brackets / Front roller		
		ADJUST	* Fan belt, Brake pedal	
	100 Hr.	CHANGE	* Engine oil	
		CHECK	* Fuel filter element	
	150 Hr.	CHANGE	* mower gear box oil.	
		CHANGE	* Transmission, Rear axle gear case and Differential case fluid	
	200 Hr.	CHECK	* Radiator hose and clamp, Hydraulic hose, Fuel line / Intake air line	
		CLEAN	* Transmission strainer	
	REPLACE	* Engine oil filter, Transmission oil filter		
		ADJUST	* Rear axle pivot	
	400 Hr.	REPLACE	* Fuel filter element	
		CHECK	* Fuel Injection Nozzle Injection Pressure ★	
	1500 Hr. 3000 Hr.	CHECK	* Injection Pump ★	
	Y	1 year	CHANGE	* Coolant
			CLEAN	* Radiator
		REPLACE	* Air cleaner element	
		2 year	REPLACE	* Radiator hose and clamp, Hydraulic hose, Fuel line ★ Mower gear box oil seal ★ Intake air line ★
☆ : SHOULD BE SERVICED BY KUBOTA DEALER. ★ : REQUIRED MORE OFTEN IN DUSTY CONDITIONS.				
Tire maximum pressure and tightening torque recommendation.				
Tire sizes		Inflation Pressure	lightning trzue.	
Front	4WD	24x12.0-12	140 kPa (20psi)	49.0 Nm (36 ft-lbs)
	2WD	23x10.5-12		
Rear	4WD	18x 9.5- 8	250 kPa (36psi)	88.3 Nm (65 ft-lbs)
	2WD	16X 6.5- 8		
Approximate fluid capacities.				
Engine: F2880 (D1105) - 3.5L (3.69 U.S.qts.) / F3680 (V1505) - 5.0L (5.28 U.S.qts.)				
Radiator: 4.6L (4.86 U.S.qts.) / Reserve tank: 0.6L (0.63 U.S.qts.)				
Transmission: 14L (14.79 U.S.qts.) / Differential case: 1.5L (1.59 U.S.qts.)				
Rear axle gear case: 0.5L (0.53 U.S.qts.) / Mower gear box: 0.4L (0.42 U.S.qts.)				

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(2) Part No. K3611-4751-1 (SPANISH)

LISTA DE SERVICIOS PERIODICOS				
INTERVALO		SERVICIO RECOMENDADO		
DIARIO	COMPROBACION	1. Presión, desgaste y daños de neumáticos.		
		2. Fugas de aceite y agua de la máquina y segadora		
		3. Aceite de motor, líquido de la transmisión, nivel de combustible y refrigerante en el depósito de recuperación		
		4. Daños en la carrocería de la maquina, apriete de pamos, tuercas, pasadores, etc.		
		5. Desgaste o danos de correa y cuchillas de la segadora		
		6. Pedal de freno, interruptores de seguridad y funciones fáciles del comprobador		
		7. Color del humo de escape, ruidos y vibraciones anormales		
		8. Cinturon de seguridad y Pops (tipo Rops)		
	LIMPIEZA	• Pantalla de radiador, pantalla de capó y plataforma de segadora		
	ENGRASE	• Unión en U de segadora (3 lugares) / husillo (3 lugares) / polea de tensión de correa (1 lugar) / pivote de tensión de la correa (1 lugar)		
PRIMERAS 50 horas (RODAJE) (DEBE REALIZARSE)	CAMBIO	• Aceite de motor y aceite de caja de engranajes de segadora		
	REEMPLAZO	• Filtro de aceite del motor y filtro de aceite de transmisión		
PRIMERAS 200 horas (DEBE REALIZARSE)	CAMBIO	• Líquido de la transmisión, caja de engranajes del eje trasero y caja de diferencial		
	LIMPIEZA	• Filtro de transmisión		
C	COMPROBACION	• Dispositivo de seguridad, condición de la batería y aceite de la caja de engranajes de la segadora		
		• Elemento del filtro de aire ★		
	LIMPIEZA	• Resalto de pedal de control de velocidad / resalto de enlace de elevación (DE/IZ) / resalto de pedal de bloqueo de diferencial / junta universal / árbol de transmisión DT (4WD) / brazo de mangueta (4WD) / pivote de eje trasero (2WD) / regulador de asiento / cable (acelerador) / junta universal.		
		• Ruedas delanteras y ménsulas de ruedas/rodillo delantero		
	ENGRASE	• Correa de ventilador, pedal de freno		
		• Aceite de motor		
	100 horas	CAMBIO	• Elemento de filtro de combustible	
		CAMBIO	• Aceite de la caja de engranajes de la segadora	
	150 horas	CAMBIO	• Líquido de transmisión, caja de engranajes de eje trasero y caja de diferencial	
		COMPROBACION	• Manguito de radiador y abrazadera, manguito hidráulico y tubo de combustible	
200 horas	LIMPIEZA	• Filtro de transmisión		
	REEMPLAZO	• Filtro de aceite del motor, filtro de aceite de transmisión		
400 horas	AJUSTE	• Pivote de eje trasero		
	REEMPLAZO	• Elemento de filtro de combustible		
1500 horas	AJUSTE	• Presión de inyección de inyector de combustible ★		
	COMPROBACION	• Bomba de inyección ★		
3000 horas	CAMBIO	• Refr i gerante		
	LIMPIEZA	• Radiador		
1 año	REEMPLAZO	• Elemento de filtro de aire		
	REEMPLAZO	• Manguito de radiador y abrazadera, manguito hidráulico y tubo de combustible ★ Línea de aire de admisión		
2 años	REEMPLAZO	• Retenedor de aceite de la caja de engranajes de la segadora ★		
	REEMPLAZO			
★ : DEBERÁ SER REALIZADO POR UN CONCESIONARIO DE KUBOTA.				
★ : DEBERÁ HACERSE MÁS A MENUDO EN ZONAS POLVORIENTAS.				
Recomendaciones para la presión máxima y el par de apriete de los neumáticos:				
Tamaños de neumáticos		Presión de inflación	Par de apriete	
Delanteros	4WD	24x12.0-12	140 kPa(20psi)	49.0 Nm (36 ft-lbs)
	2WD	23x10.5-12		
Traseros	4WD	18x 9.5- 8	250 kPa(36psi)	88.3 Nm (65 ft-lbs)
	2WD	16X 6.5- 8	190 kPa(28psi)	-
Capacidades de combustible aproximadas				
Motor: F2880 (D1105) - 3.4 L / F3680 (V1505) - 3.4 L				
Radiator: 4.6 L / Depósito de reserva: 0.6 L				
Transmisión: 14 L / Caja de diferencial: 1.5 L				
Caja de engranajes de eje trasero: 0.5 L / Caja de engranajes de la segadora: 0.4 L				

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LUBRICANTS

Place	Capacities			Lubricants
	F2880E	F2880	F3680	
Fuel	61 L (16.1 U.S.qts.)			<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)
Coolant	4.6 L (4.9 U.S.qts.)			Fresh clean water with anti-freeze
Recovery tank	0.6 L (0.6 U.S.qts.)			
Engine crankcase	3.5 L (3.7 U.S.qts.)		5.0 L (5.3 U.S.qts.)	<ul style="list-style-type: none">• Engine oil: API Service Classification CD, CE or CFAbove 25 °C (77 °F)SAE30, SAE10W-30 or 10W-400 to 25 °C (32 to 77 °F)SAE20, SAE10W-30 or 10W-40Below 0 °C (32 °F)SAE10W, SAE10W-30 or 10W-40
Transmission case	14 L (14.8 U.S.qts.)			<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1
Rear axle Differential case	1.5 L (1.6 U.S.qts.)			<ul style="list-style-type: none">• KUBOTA UDT, SUPER UDT fluid*1 or SAE85W, SAE90 gear oil (API service classification: more than GL-3)
Rear axle gear case (RH & LH)	0.5 L (0.5 U.S.qts.)			

Greasing	No. of greasing points			Capacity	Type of grease
	F2880E	F2880	F3680		
Speed control pedal shaft	1	1	1	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Lift link boss (RH & LH)	2	2	2		
Differential lock pedal boss	1	1	1		
Universal joint	1	1	1		
Rear wheel drive shaft (F & R for 4WD)	---	2	2		
Knuckle arm (RH & LH for 4WD)	---	2	2		
King pin (RH & LH for 2WD)	2	---	---		
Seat adjuster	2	2	2	Moderate amount	<ul style="list-style-type: none"> • Oil
HST neutral shaft	1	1	1		
Cable (Throttle)	1	1	1		

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

F2880, F2880E, F3680

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacture's estimate.

MAINTENANCE

G2160, G2460G

SERVICE INTERVAL

No.	Period Items		Every 50 Hr	Hour meter reading								Reference Page	
				50	100	150	200	300	400	450	500		After
1	Tires	Check	○									Every 50Hr	37
2	Battery condition	Check			○		○	○	○		○	Every 100Hr	44
3	Engine oil	Change		◎	○		○	○	○		○	Every 100Hr	41
4	Engine oil filter cartridge	Change		◎			○		○			Every 200Hr	41
5	Transmission fluid	Change					○				○	Every 300Hr	46
6	Transmission oil filter cartridge	Replace		◎			○				○	Every 300Hr	42
7	Transmission oil strainer	Clean					○				○	Every 300Hr	47
8	Hydraulic hose	Check					○		○			Every 200Hr	45
		Replace										Every 2 Years*	49
9	Fuel lines	Check			○		○	○	○		○	Every 100Hr	42
		Replace☆										Every 2 Years*	49
10	Fuel filter	Check			○		○	○	○		○	Every 100Hr	42
		Replace☆									○	Every 500Hr	47
11	Radiator hose and clamp	Check					○		○			Every 200Hr	45
		Replace☆										Every 2 Years*	49
12	Radiator core	Clean			○		○	○	○		○	Every 100 Hr**	43
13	Cooling system	Clean										Every 1 Year	49
14	Coolant	Change										Every 1 Year	48
15	Air cleaner element	Clean	○**										40
		Replace										Every 1 Year**	47
16	Fan belt tension	Adjust	○										38
17	Front PTO belt tension	Adjust	○***										40
18	Brake play	Adjust☆	○										38
19	Greasing	—	○										39
20	Spark plug [G2460G only]	Check			○		○	○	○		○	Every 100Hr	43
21	Mower gear box oil	Change		◎		○		○		○		Every 150Hr	—
22	Mower gear box oil seal	Replace★										Every 2 Years*	—

IMPORTANT:

◎ The maintenance indicated by ◎ must be done initially.

* Replace only if necessary.

** This maintenance should be done more often in dusty conditions than in normal conditions.

*** Initial elongation of the front PTO belt may occur prior to 25 hours. Adjust the tension spring length as needed to maintain belt tension.

☆ These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

★ See Workshop Manual.

G2160, G2460G

LUBRICANTS

To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

Place	Capacity	Lubricants
Engine crankcase	2.8 L (2.95 U.S.qts.)	[G2160] • Engine oil: API Service classification CC or CD Below 0°C (32°F): SAE 10W or 10W-30 0 to 25°C (32°F to 77°F): SAE 20 or 10W-30 Above 25°C (77°F): SAE 30 or 10W-30
	2.6 L (2.7 U.S.qts.)	[G2460G] • Engine oil: API Service classification SF Below 0°C (32°F): SAE 10W or 10W-30 0 to 25°C (32°F to 77°F): SAE 20 or 10W-30 Above 25°C (77°F): SAE 30 or 10W-30
Transmission (Including HST & CYLINDER)	4.5 L (4.75 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*1
Mower gear box	0.4 L (0.42 U.S.qts.)	• SAE #90 gear oil
King pin Center pin Universal joint Spindle shaft Belt tension pulley Blet tension pivot Balance shaft Tension lever	Until grease over flows	• SAE multi-purpose type grease
Link fulcrum PTO lever (fulcrum) Front PTO cable Brake pedal shaft Seat adjuster Speed control pedal shaft Throttle cable Mower universal joint Front link Mower link	Moderate Amount	• Oil or Spray type grease
Fuel tank	22L (5.8 U.S.gals.)	[G2160] • No.2-D diesel fuel • No.1-D diesel fuel if temperature is below -10°C (14°F)
		[G2460G] • Automobile unleaded or regular gasoline
Radiator	2.1L (2.2 U.S.qts.)	• Fresh clean water with anti-freeze
Radiator recovery tank	0.25L (0.26 U.S.qts.)	

NOTE:

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your KUBOTA Dealer for further detail.)
Do not mix different brands together.

- Indicated capacity of water and oil are manufacture's estimate.

MAINTENANCE

GR2010G and GR2110

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

[GR2010]

No.	Items		Indication hour meter (Hr)																								Ref. Page		
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0			
1	Engine oil	Change		⊙		○			○				○				○				○				○	every 100 Hr	53		
2	Engine oil filter	Re- place		⊙					○								○								○	every 200 Hr	58		
3	Transmissi- on fluid & Front axle cases	Change							⊙								○								○	every 200 Hr	59, 62		
4	Transmissi- on oil filter	Re- place		⊙					○								○								○	every 200 Hr	60		
5	Transmissi- on strainer	Clean							⊙								○								○	every 200 Hr	59		
6	Front axle pivot	Adjust				⊙			○								○								○	every 200 Hr	63	*2	
7	Engine shroud panel	Clean				○			○				○				○				○				○	every 100 Hr	54	*2	
8	Engine shroud	Clean							⊙								○								○	every 200 Hr	54	*3	
9	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	45		
10	Oiling	-	⊙	○		○		○	○		○		○		○		○		○		○		○		○	every 50 Hr	49		
11	Greasing	-	○	○		○		○	○		○		○		○		○		○		○		○		○	every 50 Hr	45		
12	Mower gear box oil	Check		○		○		○	○		○		○		○		○		○		○		○		○	every 50 Hr	48		
		Change						○					○					○							○	every 150 Hr	58		
13	Air clea- ner	Pre- clea- ner ele- ment	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	46	*1	@
		Air clea- ner ele- ment	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	46		
		Re- place				○				○				○				○				○				○	every 100 Hr	53	
14	Battery condition	Check				○			○				○				○				○				○	every 100 Hr	51		
15	Brake	Adjust				○			○				○				○				○				○	every 100 Hr	55		

GR2010G and GR2110

No.	Items		Indication hour meter (Hr)																								Ref. Page		
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0			
16	Fuel filter element	Check				○				○				○				○			○				○	every 100 Hr	54		@
		Re-place																○								every 400 Hr	64	*2	
17	Fuel line	Check				○				○				○				○			○				○	every 100 Hr	54		@
		Re-place																								every 2 years	66	*2	
18	Spark plug condition and gap	Check								○								○							○	every 200 Hr	63		
19	Hydraulic hose	Check								○								○							○	every 200 Hr	62	*2	
		Re-place																								every 2 years	66		
20	Mower gear box oil seal	Re-place																								every 2 years	66	*2	
21	Fuel system	Bleed																								Service as required	69		
22	Fuse	Re-place																									66		
23	Blade	Re-place																									67		
24	Mower belt	Re-place																									69		

IMPORTANT :

- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement for complete details.

GR2010G and GR2110

[GR2110]

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Engine oil	Change	⊙	○		○		○		○		○		○	every 100 Hr	53		
2	Engine oil filter	Replace	⊙			○				○				○	every 200 Hr	58		
3	Transmission & Front axle cases fluid	Change				⊙				○				○	every 200 Hr	59, 62		
4	Transmission oil filter	Replace	⊙			○				○				○	every 200 Hr	60		
5	Transmission strainer	Clean				⊙				○				○	every 200 Hr	59		
6	Front axle pivot	Adjust		⊙		○				○				○	every 200 Hr	63	*2	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	47		
8	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	49		
9	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	45		
10	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	48		
		Change	○		○			○			○			○	every 150 Hr	58		
11	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	48	*1	@
		Replace													every 1 year	64		
12	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	51		
13	Brake	Adjust		○		○		○		○		○		○	every 100 Hr	55		
14	Fan drive belt	Check		○		○		○		○		○		○	every 100 Hr	56		
15	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	54		@
		Replace								○					every 400 Hr	64	*2	
16	Fuel line	Check		○		○		○		○		○		○	every 100 Hr	54		@
		Replace													every 2 years	66	*2	
17	Hydraulic hose	Check				○				○				○	every 200 Hr	62		
		Replace													every 2 years	66	*2	
18	Radiator hose and clamp	Check				○				○				○	every 200 Hr	61		
		Replace													every 2 years	66	*2	

GR2010G and GR2110

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
19	Intake air line	Check				○				○				○	every 200 Hr	64		@
		Replace													every 2 years	66	*4	
20	Fuel injection nozzle injection pressure	Check													every 1500Hr	64	*3	@
21	Injection pump	Check													every 3000Hr	64	*3	@
22	Radiator	Clean													every 1 year	65		
23	Coolant	Change													every 1 year	64		
24	Mower gear box oil seal	Replace													every 2 years	66	*2	
25	Fuel system	Bleed													Service as Required	69		
26	Fuse	Replace														66		
27	Blade	Replace														67		
28	Mower belt	Replace														69		

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement for complete details.

LUBRICANTS

Place	Capacities		Lubricants
	GR2010	GR2110	
Fuel	---	18 L (4.8 U.S.gals.)	<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)
	18 L (4.8 U.S.gals.)	---	<ul style="list-style-type: none">• Automobile unleaded or regular gasoline• Unleaded gasoline 87 octane or higher
Coolant	---	2.1 L (2.2 U.S.qts.)	Fresh clean water with anti-freeze
Recovery tank	---	0.25 L (0.26 U.S.qts.)	
Engine crankcase	---	2.8 L * (3.0 U.S.qts.)	<ul style="list-style-type: none">• Engine oil: API Service Classification CD, CE or CFAbove 25 °C (77 °F).....SAE30, SAE10W-30 or 15W-400 to 25 °C (32 to 77 °F)....SAE20, SAE10W-30 or 15W-40Below 0 °C (32 °F).....SAE10W, SAE10W-30 or 15W-40
	1.9 L * (2.0 U.S.qts.)	---	<ul style="list-style-type: none">• Engine oil: API Service Classification SG, SH, SJ or higherAbove -18 °C (0 °F).....SAE10W-30 or 15W-40Below 0 °C (32 °F).....SAE5W-20 or 5W-30
Transmission case	3.3 L (3.5 U.S.qts.)		<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1
Front axle case	1.9 L (2.0 U.S.qts.)		
Mower gear box	0.15 L (0.16 U.S.qts.)		

Greasing	No. of greasing points	Capacity	Type of grease
King Pin	2	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Center Pin	2		
Glide steer rear arm	2		
Speed control pedal shaft	---	Moderate amount	<ul style="list-style-type: none"> • Oil
Mower link	---		
Seat adjuster	---		
Cable	---		
PTO lever	---		
Hydraulic lift lever	---		
[MOWER]	3	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Spindle shafts			

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

NOTE :

- Check the oil level of the transmission case with the mower lifted up.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

GR2010G and GR2110

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	
CH-4	○	X	
CI-4	○	X	

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.
- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

GR2020G, GR2120

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

[GR2020G]

No.	Items		Indication hour meter (Hr)																								Ref. Page				
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0			After 600 Hr		
1	Engine oil	Change		⊙		○				○				○				○				○				○	every 100 Hr	57			
2	Engine oil filter	Re- place		⊙						○								○								○	every 200 Hr	63			
3	Transmissi- on fluid & Front axle cases	Change								⊙								○								○	every 200 Hr	64, 67			
4	Transmissi- on oil filter	Re- place		⊙						○								○								○	every 200 Hr	65			
5	Transmissi- on strainer	Clean								⊙								○								○	every 200 Hr	64			
6	Front axle pivot	Adjust				⊙				○								○								○	every 200 Hr	69	*2		
7	Engine shroud panel	Clean				○				○				○				○				○				○	every 100 Hr	59	*2		
8	Engine shroud	Clean								⊙								○								○	every 200 Hr	59	*3		
9	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	48		
10	Oiling	-	⊙	○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	53			
11	Greasing	-	○	○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	47			
12	Mower gear box oil	Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	51			
		Change						○						○						○						○	every 150 Hr	63			
13	Air clea- ner	Pre- clea- ner ele- ment		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	49	*1	
		Air clea- ner ele- ment		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr		49
		Re- place				○				○				○				○				○				○	every 100 Hr	58			
14	Carbon canister air filter	Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	51	*4		
15	Battery condition	Check				○				○				○				○				○				○	every 100 Hr	55			

GR2020G, GR2120

No.	Items		Indication hour meter (Hr)																								Ref. Page		
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0			After 600 Hr
16	Brake	Adjust				○				○				○				○				○				○	every 100 Hr	60	
17	Fuel filter element	Check				○				○				○				○				○				○	every 100 Hr	59	
		Re- place																○									every 400 Hr	70	*2
18	Fuel line	Check				○				○				○				○				○				○	every 100 Hr	59	
		Re- place																									every 2 years	71	*2
19	Spark plug condition and gap	Check								○								○								○	every 200 Hr	69	
20	Hydraulic hose	Check								○								○								○	every 200 Hr	67	*2
		Re- place																									every 2 years	71	
21	Mower gear box oil seal	Re- place																									every 2 years	72	*2
22	Fuel system	Bleed																									Service as required	74	
23	Fuse	Re- place																										72	
24	Blade	Re- place																										73	
25	Mower belt	Re- place																										74	

IMPORTANT :

- The jobs indicated by © must be done initially.

*1 This maintenance should be done daily or more often in dusty conditions than in normal conditions.

Suggested cleaning interval is every 100 hours in normal conditions.

*2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

*3 Consult your local KUBOTA Dealer for this service.

*4 Clean or replace only if necessary.

- GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:

1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work. See the Emissions Warranty Statement.

2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

GR2020G, GR2120

[GR2120, GR2120AU]

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Engine oil	Change	⊙	○		○		○		○		○		○	every 100 Hr	57		
2	Engine oil filter	Replace	⊙			○				○				○	every 200 Hr	63		
3	Transmission & Front axle cases fluid	Change				⊙				○				○	every 200 Hr	64, 67		
4	Transmission oil filter	Replace	⊙			○				○				○	every 200 Hr	65		
5	Transmission strainer	Clean				⊙				○				○	every 200 Hr	64		
6	Front axle pivot	Adjust		⊙		○				○				○	every 200 Hr	69	*2	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	50		
8	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53		
9	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	47		
10	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	51		
		Change	○		○			○			○			○	every 150 Hr	63		
11	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	50	*1	@
		Replace													every 1 year	70		
12	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	55		
13	Brake	Adjust		○		○		○		○		○		○	every 100 Hr	60		
14	Fan drive belt	Check		○		○		○		○		○		○	every 100 Hr	61		
15	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	59		@
		Replace								○					every 400 Hr	70	*2	
16	Fuel line	Check		○		○		○		○		○		○	every 100 Hr	59		@
		Replace													every 2 years	71	*2	
17	Hydraulic hose	Check				○				○				○	every 200 Hr	67		
		Replace													every 2 years	71	*2	
18	Radiator hose and clamp	Check				○				○				○	every 200 Hr	66		
		Replace													every 2 years	71	*2	

GR2020G, GR2120

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
19	Intake air line	Check				○				○				○	every 200 Hr	69		@
		Replace													every 2 years	72	*4	
20	Fuel injection nozzle injection pressure	Check													every 1500Hr	70	*3	@
21	Injection pump	Check													every 3000Hr	70	*3	@
22	Radiator	Clean													every 1 year	71		
23	Coolant	Change													every 1 year	70		
24	Mower gear box oil seal	Replace													every 2 years	72	*2	
25	Fuel system	Bleed													Service as Required	74		
26	Fuse	Replace														72		
27	Blade	Replace														73		
28	Mower belt	Replace														74		

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement for complete details.

LUBRICANTS, FUEL AND COOLANT

Place	Capacities		Lubricants, fuel and coolant
	GR2020G	GR2120, GR2120AU	
Fuel	---	18 L (4.8 U.S.gals.)	<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)
	16 L (4.2 U.S.gals.)	---	<ul style="list-style-type: none">• Automobile unleaded or regular gasoline• Unleaded gasoline 87 octane or higher
Coolant	---	2.1 L (2.2 U.S.qts.)	Fresh clean water with anti-freeze
Recovery tank	---	0.25 L (0.26 U.S.qts.)	
Engine crankcase	---	2.8 L *1 (3.0 U.S.qts.)	<ul style="list-style-type: none">• Engine oil: API Service Classification CF or higherAbove 25 °C (77 °F).....SAE30, SAE10W-30 or 15W-400 to 25 °C (32 to 77 °F)....SAE20, SAE10W-30 or 15W-40Below 0 °C (32 °F).....SAE10W, SAE10W-30 or 15W-40
	1.9 L *1 (2.0 U.S.qts.)	---	<ul style="list-style-type: none">• Engine oil: API Service Classification SG, SH, SJ or higherAbove -18 °C (0 °F).....SAE10W-30Below 0 °C (32 °F).....SAE5W-20 or 5W-30
Transmission case	3.3 L (3.5 U.S.qts.)		<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid *2
Front axle case	1.9 L (2.0 U.S.qts.)		
Mower gear box	0.15 L (0.16 U.S.qts.)		

MAINTENANCE

GR2100, GR2000G

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

[GR2000]

No.	Items		Indication hour meter (Hr)																								Ref. Page			
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0				After 600 Hr
1	Engine oil	Change		⊙		○				○				○				○				○				○	every 100 Hr	52		
2	Engine oil filter	Re- place		⊙						○								○								○	every 200 Hr	57		
3	Transmissi- on fluid & Front axle cases	Change								⊙								○								○	every 200 Hr	58, 61		
4	Transmissi- on oil filter	Re- place		⊙						○								○								○	every 200 Hr	59		
5	Transmissi- on strainer	Clean								⊙								○								○	every 200 Hr	58		
6	Front axle pivot	Adjust				⊙				○								○								○	every 200 Hr	62	*2	
7	Engine shroud panel	Clean				○				○				○				○				○				○	every 100 Hr	53	*2	
8	Engine shroud	Clean								⊙								○								○	every 200 Hr	53	*3	
9	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	44		
10	Oiling	-	⊙	○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	48		
11	Greasing	-	○	○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	44		
12	Mower gear box oil	Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	47		
		Change						○					○					○							○	every 150 Hr	57			
13	Air clea- ner	Pre- clea- ner ele- ment	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	45	*1	@
		Air clea- ner ele- ment	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	45		
		Re- place				○				○				○				○				○				○	every 100 Hr	52		
14	Battery condition	Check				○				○				○				○				○				○	every 100 Hr	50		
15	Brake	Adjust				○				○				○				○				○				○	every 100 Hr	54		

GR2100, GR2000G

No.	Items		Indication hour meter (Hr)																								Ref. Page		
			2 5	5 0	7 5	1 0 0	1 2 5	1 5 0	1 7 5	2 0 0	2 2 5	2 5 0	2 7 5	3 0 0	3 2 5	3 5 0	3 7 5	4 0 0	4 2 5	4 5 0	4 7 5	5 0 0	5 2 5	5 5 0	5 7 5	6 0 0			
16	Fuel filter element	Check				○				○				○				○			○				○	every 100 Hr	53		@
		Re-place																○								every 400 Hr	63	*2	
17	Fuel line	Check				○				○				○				○			○				○	every 100 Hr	53		@
		Re-place																								every 2 years	65	*2	
18	Spark plug condition and gap	Check								○								○							○	every 200 Hr	62		
19	Hydraulic hose	Check								○								○							○	every 200 Hr	61		*2
		Re-place																								every 2 years	65		
20	Mower gear box oil seal	Re-place																								every 2 years	65	*2	
21	Fuel system	Bleed																								Service as required	68		
22	Fuse	Re-place																									65		
23	Blade	Re-place																									66		
24	Mower belt	Re-place																									68		

IMPORTANT :

- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement for complete details.

GR2100, GR2000G

[GR2100]

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Engine oil	Change	⊙	○		○		○		○		○		○	every 100 Hr	52		
2	Engine oil filter	Replace	⊙			○				○				○	every 200 Hr	57		
3	Transmission & Front axle cases fluid	Change				⊙				○				○	every 200 Hr	58, 61		
4	Transmission oil filter	Replace	⊙			○				○				○	every 200 Hr	59		
5	Transmission strainer	Clean				⊙				○				○	every 200 Hr	58		
6	Front axle pivot	Adjust		⊙		○				○				○	every 200 Hr	62	*2	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	46		
8	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	48		
9	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	44		
10	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	47		
		Change	○		○			○			○			○	every 150 Hr	57		
11	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	47	*1	@
		Replace													every 1 year	63		
12	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	50		
13	Brake	Adjust		○		○		○		○		○		○	every 100 Hr	54		
14	Fan drive belt	Check		○		○		○		○		○		○	every 100 Hr	55		
15	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	53		@
		Replace								○					every 400 Hr	63	*2	
16	Fuel line	Check		○		○		○		○		○		○	every 100 Hr	53		@
		Replace													every 2 years	65	*2	
17	Hydraulic hose	Check				○				○				○	every 200 Hr	61		
		Replace													every 2 years	65	*2	
18	Radiator hose and clamp	Check				○				○				○	every 200 Hr	60		
		Replace													every 2 years	65	*2	

GR2100, GR2000G

No.	Items		Indication on hour meter (Hr)												After since	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600				
19	Intake air line	Check				○				○				○	every 200 Hr	63		@
		Replace													every 2 years	65	*4	
20	Fuel injection nozzle injection pressure	Check													every 1500Hr	63	*3	@
21	Injection pump	Check													every 3000Hr	63	*3	@
22	Radiator	Clean													every 1 year	64		
23	Coolant	Change													every 1 year	63		
24	Mower gear box oil seal	Replace													every 2 years	65	*2	
25	Fuel system	Bleed													Service as Required	68		
26	Fuse	Replace														65		
27	Blade	Replace														66		
28	Mower belt	Replace														68		

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty conditions than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement for complete details.

LUBRICANTS

GR2100, GR2000G

Place	Capacities		Lubricants
	GR2000	GR2100	
Fuel	---	18 L (4.8 U.S.gals.)	<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)
	18 L (4.8 U.S.gals.)	---	<ul style="list-style-type: none">• Automobile unleaded or regular gasoline• Unleaded gasoline 87 octane or higher
Coolant	---	2.1 L (2.2 U.S.qts.)	Fresh clean water with anti-freeze
Recovery tank	---	0.25 L (0.26 U.S.qts.)	
Engine crankcase	---	2.8 L * (3.0 U.S.qts.)	<ul style="list-style-type: none">• Engine oil: API Service Classification CD, CE or CFAbove 25 °C (77 °F).....SAE30, SAE10W-30 or 10W-400 to 25 °C (32 to 77 °F)....SAE20, SAE10W-30 or 10W-40Below 0 °C (32 °F).....SAE10W, SAE10W-30 or 10W-40
	1.9 L * (2.0 U.S.qts.)	---	<ul style="list-style-type: none">• Engine oil: API Service Classification SG, SH, SJ or higherAbove -18 °C (0 °F).....SAE10W-30 or 10W-40Below 0 °C (32 °F).....SAE5W-20 or 5W-30
Transmission case	3.3 L (3.5 U.S.qts.)		<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1
Front axle case	1.9 L (2.0 U.S.qts.)		
Mower gear box	0.15 L (0.16 U.S.qts.)		

Greasing	No. of greasing points	Capacity	Type of grease
King Pin	2	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Center Pin	2		
Glide steer rear arm	2		
Speed control pedal shaft	---	Moderate amount	<ul style="list-style-type: none"> • Oil
Mower link	---		
Seat adjuster	---		
Cable	---		
PTO lever	---		
Hydraulic lift lever	---		
[MOWER]	3	Until grease overflows	<ul style="list-style-type: none"> • Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Spindle shafts			

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

NOTE :

- Check the oil level of the transmission case with the mower lifted up.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

GR2100, GR2000G

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

L2800 L3400 L3700

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53		
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	54		
3	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	55		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	59	*5	
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	57		
6	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	58		
7	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	59		
8	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	56	*1	@
		Replace															every 1 year	68	*2	
9	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	56		@
		Replace								○							every 400 Hr	67		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	57		@
		Replace															every 2 year	70	*4	
11	Engine oil	Change	◎			○				○				○			every 200 Hr	61		
12	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	61		
13	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	62		
14	Toe-in	Adjust				○				○				○			every 200 Hr	65		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	64		
		Replace															every 2 year	70		
16	Power steering oil line	Check				○				○				○			every 200 Hr	64		
		Replace															every 2 year	70	*4	
17	Intake air line	Check				○				○				○			every 200 Hr	65		@
		Replace															every 2 year	71	*4	

L2800 L3400 L3700

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
18	HST oil line	Check				○				○				○			every 200 Hr	64	
		Replace															every 2 year	70	*4
19	Hydraulic oil filter	Replace	◎							○							every 400 Hr	66	
20	Transmission fluid	Change								○							every 400 Hr	66	
21	Front axle case oil (4WD)	Change								○							every 400 Hr	67	
22	Greasing (2WD front wheel hub)	-								○							every 400 Hr	68	
23	Front axle pivot	Adjust												○			every 600 Hr	68	
24	Engine valve clearance	Adjust															every 800 Hr	68	*4
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	68	*4 @
26	Injection pump	Check															every 3000 Hr	68	*4 @
27	Cooling system	Flush															every 2 year	69	
28	Coolant	Change															every 2 year	69	
29	Fuel system	Bleed															Service as required	71	
30	Clutch housing water	Drain																71	
31	Fuse	Replace																71	
32	Light bulb	Replace																72	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		L2800	L3400 / L3700SU		
1	Fuel	34 L (9.0 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)	
2	Coolant	6.0 L (6.3 U.S.qts.)		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts.)	7.1 L (7.5 U.S.qts.)	● Engine oil : Refer to next page	
				Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
				0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
				Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	Manual Transmission, 2WD	27.0 L (7.1 U.S. gals.)	● KUBOTA UDT or SUPER UDT fluid*	
		Manual Transmission, 4WD	27.5 L (7.3 U.S. gals.)		
		HST, 4WD	23.5 L (6.2 U.S. gals.)		
5	Front axle case [4WD]	4.5 L (4.8 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Greasing	No. of greasing points		Capacity	Type of grease
	● Front wheel hub	2 [2WD only]		A small amount	Bearing grease
	● Knuckle shaft	2 [2WD only]		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	● Front axle support	2			
	● Clutch pedal	1			
	● Brake pedal	1			
	● Pedal shaft	1			
	● Top link bracket	2 [with Draft Control (if equipped)]			
	● Battery terminals	2			
	● Lift rod	1			

NOTE: *KUBOTA UDT or KUBOTA SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

L2800 L3400 L3700

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	L2800, L3400, L3700SU	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE L3130, 3430, 3830, 4330, 4630, 5030

SERVICE INTERVALS

No.	Items		Indication on hour meter									Since then	Ref. page		
			50	100	150	200	250	300	350	400	450				
1	Engine oil	Change	⊙	○		○		○		○		every 100 Hr	76		
2	Engine oil filter	Replace	⊙			○				○		every 200 Hr	81		
3	Hydraulic oil filter	Replace	⊙			○				○		every 200 Hr	81		
4	Transmission oil filter[HST]	Replace	⊙			○				○		every 200 Hr	81		
5	Transmission fluid	Change	⊙							○		every 400 Hr	85		
6	Front axle case oil	Change	⊙							○		every 400 Hr	86		
7	Front axle pivot	Adjust										every 600 Hr	86		
8	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	73		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	74		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	76		
11	Battery condition	Check		○		○		○		○		every 100 Hr	79	*5	
12	Air cleaner element [Double type]	Primary element	Clean	○		○		○		○		every 100 Hr	77	*1	@
		Replace										every 1 year	86	*2	
		Secondary element	Replace									every 1 year	86		
13	Fuel filter element	Clean		○		○		○		○		every 100 Hr	77		@
		Replace								○		every 400 Hr	85		
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	78		
15	Clutch	Adjust		○		○		○		○		every 100 Hr	79		
16	Brake	Adjust	⊙	○		○		○		○		every 100 Hr	79		
17	Radiator hose and clamp	Check				○				○		every 200 Hr	83		
		Replace										every 2 year	88		
18	Power steering oil line	Check				○				○		every 200 Hr	83		
		Replace										every 2 year	88		
19	Fuel line	Check		○		○		○		○		every 100 Hr	78		@
		Replace										every 2 year	88	*3	
20	HST oil line [HST]	Check				○				○		every 200 Hr	83		
		Replace										every 2 year	88		
21	Toe-in	Adjust				○				○		every 200 Hr	84		
22	Intake air line	Check				○				○		every 200 Hr	84		@
		Replace										every 2 year	88	*3	
23	Greasing(2WD front wheel hub)	-								○		every 400 Hr	86		
24	Engine valve clearance	Adjust										every 800 Hr	86	*4	
25	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	86	*4	@
26	Injection pump	Check										every 3000 Hr	86	*4	@
27	Cooling system	Flush										every 2 year	87		
28	Coolant	Change										every 2 year	87		
29	Fuel system	Bleed										Service as required	89		
30	Clutch housing water	Drain											89		
31	Fuse	Replace											89		
32	Light bulb	Replace											90		

L3130, 3430, 3830, 4330, 4630, 5030

No.	Items		Indication on hour meter									Since then	Ref. page		
			500	550	600	650	700	750	800	850	900				
1	Engine oil	Change	○		○		○		○		○	every 100 Hr	76		
2	Engine oil filter	Replace			○				○			every 200 Hr	81		
3	Hydraulic oil filter	Replace			○				○			every 200 Hr	81		
4	Transmission oil filter[HST]	Replace			○				○			every 200 Hr	81		
5	Transmission fluid	Change							○			every 400 Hr	85		
6	Front axle case oil	Change							○			every 400 Hr	86		
7	Front axle pivot	Adjust			○							every 600 Hr	86		
8	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	73		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	74		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	76		
11	Battery condition	Check	○		○		○		○		○	every 100 Hr	79	*5	
12	Air cleaner element [Double type]	Primary element	Clean	○	○		○		○		○	every 100 Hr	77	*1	@
		Replace										every 1 year	86	*2	
		Secondary element	Replace									every 1 year	86		
13	Fuel filter element	Clean	○		○		○		○		○	every 100 Hr	77		@
		Replace							○			every 400 Hr	85		
14	Fan belt	Adjust	○		○		○		○		○	every 100 Hr	78		
15	Clutch	Adjust	○		○		○		○		○	every 100 Hr	79		
16	Brake	Adjust	○		○		○		○		○	every 100 Hr	79		
17	Radiator hose and clamp	Check			○				○			every 200 Hr	83		
		Replace										every 2 year	88		
18	Power steering oil line	Check			○				○			every 200 Hr	83		
		Replace										every 2 year	88		
19	Fuel line	Check	○		○		○		○		○	every 100 Hr	78		@
		Replace										every 2 year	88	*3	
20	HST oil line [HST]	Check			○				○			every 200 Hr	83		
		Replace										every 2 year	88		
21	Toe-in	Adjust			○				○			every 200 Hr	84		
22	Intake air line	Check			○				○			every 200 Hr	84		@
		Replace										every 2 year	88	*3	
23	Greasing(2WD front wheel hub)	-							○			every 400 Hr	86		
24	Engine valve clearance	Adjust							○			every 800 Hr	86	*4	
25	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	86	*4	@
26	Injection pump	Check										every 3000 Hr	86	*4	@
27	Cooling system	Flush										every 2 year	87		
28	Coolant	Change										every 2 year	87		
29	Fuel system	Bleed										Service as required	89		
30	Clutch housing water	Drain											89		
31	Fuse	Replace											89		
32	Light bulb	Replace											90		

IMPORTANT :

● The jobs indicated by ◎ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

*2 Every year or every 6 times of cleaning.

*3 Replace only if necessary.

*4 Consult your local KUBOTA Dealer for this service.

*5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities						Lubricants	
		L3130	L3430	L3830	L4330	L4630	L5030		
1	Fuel	40 L (10.6 U.S.gals.)					43 L (11.3 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	6.0 L (6.3 U.S.qts.)	6.0 L (6.3 U.S.qts.) (CAB Type: 8.7 L (9.2 U.S.qts.))	7.5 L (7.9 U.S.qts.)	7.5 L (7.9 U.S.qts.) (CAB Type: 8.7 L (9.2 U.S.qts.))	8.0 L (8.5 U.S.qts.) (CAB Type: 9.2 L (9.7 U.S.qts.))	Fresh clean water with anti-freeze		
3	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts.)		6.7 L (7.1 U.S.qts.)	8.2 L (8.7 U.S.qts.)		● Engine oil : API Service Classification CD, CE or CF		
							Above 25 °C (77 °F)	SAE30, SAE10W-30 or 10W-40	
							0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 10W-40	
							Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 10W-40	
4	Transmission case	42 L (11.1 U.S.gals.)		43 L (11.4 U.S.gals.)		45 L (11.9 U.S.gals.)	● KUBOTA UDT or SUPER UDT fluid*		
5	Front axle case [4WD]	6.5 L (6.9 U.S.qts.)			9.0 L (9.5 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80-SAE90 gear oil		
6	Greasing	No. of greasing points						Capacity	Type of grease
	Front wheel hub [2WD]	2	---	2	---		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)	
	Knuckle shaft [2WD]	2	---	2	---				
	Front wheel case support	----			2				
	Front axle support [4WD]	2							
	Top link	1				2			
	Top link bracket	2 [with Draft Control (if equipped)]							
	Lift rod	2							
	Lift cylinder	4							
	Battery terminal	2					moderate amount	Engine oil	
	Throttle cable	Oiling							

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

NOTE:

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.

L3130, 3430, 3830, 4330, 4630, 5030

- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil:
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands or grades.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

L3200,L3800

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	54		
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	56		
3	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	57		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	60	*5	
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	58		
6	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	59		
7	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	60		
8	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	57	*1	@
		Replace															every 1 year	68	*2	
9	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	58		@
		Replace								○							every 400 Hr	67		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	59		@
		Replace															every 2 year	70	*4	
11	Engine oil	Change	◎			○				○				○			every 200 Hr	62		
12	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	62		
13	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	63		
14	Toe-in	Adjust				○				○				○			every 200 Hr	65		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	64		
		Replace															every 2 year	70		
16	Power steering oil line	Check				○				○				○			every 200 Hr	65		
		Replace															every 2 year	70	*4	
17	Intake air line	Check				○				○				○			every 200 Hr	64		@
		Replace															every 2 year	70	*4	

L3200,L3800

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
18	Oil cooler line [HST]	Check				○				○				○			every 200 Hr	64	
		Replace															every 2 year	70	*4
19	Hydraulic oil filter	Replace	◎							○							every 400 Hr	66	
20	Transmission fluid	Change								○							every 400 Hr	66	
21	Front axle case oil (4WD)	Change								○							every 400 Hr	67	
22	Greasing (2WD front wheel hub)	-								○							every 400 Hr	68	
23	Front axle pivot	Adjust												○			every 600 Hr	68	
24	Engine valve clearance	Adjust															every 800 Hr	68	*4
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	68	*4 @
26	Injection pump	Check															every 3000 Hr	68	*4 @
27	Cooling system	Flush															every 2 year	69	
28	Coolant	Change															every 2 year	69	
29	Fuel system	Bleed															Service as required	71	
30	Clutch housing water	Drain																71	
31	Fuse	Replace																72	
32	Light bulb	Replace																72	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations		Capacities		Lubricants	
			L3200	L3800		
1	Fuel		38.0 L (10.0 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)	
2	Coolant		6.0 L (6.3 U.S.qts.)		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)		5.7 L (6.0 U.S.qts.)	7.1 L (7.5 U.S.qts.)	● Engine oil : Refer to next page	
					Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
					0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
					Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	Manual Transmission, 2WD	27.0 L (7.1 U.S. gals.)		● KUBOTA UDT or SUPER UDT fluid*	
		Manual Transmission, 4WD	27.5 L (7.3 U.S. gals.)			
		HST, 4WD	23.5 L (6.2 U.S. gals.)			
5	Front axle case [4WD]		4.5 L (4.8 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Greasing		No. of greasing points		Capacity	Type of grease
	● Front wheel hub		2 [2WD only]		A small amount	Bearing grease
	● Knuckle shaft		2 [2WD only]		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	● Front axle support		2 [4WD only]			
	● Clutch pedal		1			
	● Brake pedal		1			
	● Pedal shaft		1			
	● Battery terminals		2			
	● Lift rod		1			
	● Tie rod end		4 [4WD only]			

NOTE: *KUBOTA UDT or KUBOTA SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

L3200,L3800

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	L3200, L3800	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C .

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

L3240, 3540, 3940, 4240, 4740, 5040,
5240, 5740

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	⊙			○				○				○			every 200 Hr	95		
2	Engine oil filter	Replace	⊙			○				○				○			every 200 Hr	94		
3	Transmission oil filter [HST]	Replace	⊙			○				○				○			every 200 Hr	96		
4	Hydraulic oil filter	Replace	⊙							○							every 400 Hr	99		
5	Transmission fluid	Change								○							every 400 Hr	99		
6	Front axle case oil	Change								○							every 400 Hr	100		
7	Front axle pivot	Adjust												○			every 600 Hr	101		
8	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	87		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	88		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	89		
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	93	*5	
12	Air cleaner element [Double type] Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	90	*1	@
		Replace															every 1 year	101	*2	
	Secondary element	Replace															every 1 year	101		
13	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	90		@
		Replace								○							every 400 Hr	100		
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	91		
15	Clutch	Adjust	⊙	○		○		○		○		○		○		○	every 100 Hr	92		
16	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	92		
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	96		
		Replace															every 2 year	103		

L3240, 3540, 3940, 4240, 4740, 5040, 5240, 5740

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Power steering oil line	Check				○				○				○			every 200 Hr	97		
		Replace															every 2 year	103	*4	
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	91		@
		Replace															every 2 year	103	*4	
20	HST oil line [HST]	Check				○				○				○			every 200 Hr	97		
		Replace															every 2 year	103	*4	
21	Toe-in	Adjust				○				○				○			every 200 Hr	98		
22	Intake air line	Check				○				○				○			every 200 Hr	98		@
		Replace															every 2 year	103	*4	
23	Greasing (2WD front wheel hub)	---								○							every 400 Hr	100		
24	Engine valve clearance	Adjust															every 800 Hr	101	*4	
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	101	*4	@
26	Injection pump	Check															every 3000 Hr	101	*4	@
27	Turbo charger	Check															every 3000 Hr	101	*4	@
28	Lift cylinder hose	Replace															every 2 year	103	*4	
29	Cooling system	Flush															every 2 year	102		
30	Coolant	Change															every 2 year	102		
31	Fuel system	Bleed															Service as required	104		
32	Clutch housing	Drain																104		
33	Fuse	Replace																105		
34	Light bulb	Replace																106		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities								Lubricants		
		L3240	L3540	L3940	L4240	L4740	L5040	L5240	L5740			
1	Fuel	44 L (11.6 U.S.gals.)		50 L (13.2 U.S.gals.)		54 L (14.3 U.S.gals.)			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)			
2	Coolant	6.0 L (6.3 U.S.qts.)	7.5 L (7.9 U.S.qts.)			8.2 L (8.7 U.S.qts.)			Fresh clean water with anti-freeze			
		Recovery tank: 1.0 L (1.1 U.S.qts.)										
3	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts.)	6.7 L (7.1 U.S.qts.)	8.2 L (8.7 U.S.qts.)		9.4 L (9.9 U.S.qts.)			● Engine oil : Refer to next page			
									Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40		
									0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40		
									Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40		
4	Transmission case	42 L (11.1 U.S.gals.)		43 L (11.4 U.S.gals.)		45 L (11.9 U.S.gals.)			● KUBOTA UDT or SUPER UDT fluid*			
5	Front axle case [4WD]	6.5 L (6.9 U.S.qts.)			9.0 L (9.5 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid* or SAE 80-SAE90 gear oil			
6	Greasing	No. of greasing points								Capacity	Type of grease	
	Front wheel hub [2WD]	2	---							Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)	
	Knuckle shaft [2WD]	2	---									
	Front wheel case support	----			2							
	Front axle support [4WD]	2										
	Top link	2										
	Top link bracket	2 [with Draft Control (if equipped)]										
	Lift rod	1										
	Lift cylinder	4										
	Battery terminal	2							moderate amount			Engine oil
	Throttle cable	Oiling										

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

L3240, 3540, 3940, 4240, 4740, 5040, 5240, 5740

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Models	L3240, L3540, 3940, L4240, 4740, L5040	L5240, L5740

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

L3240-3, 3540-3, 3940-3, 4240-3,
4740-3, 5040-3, 5240-3, 5740-3

SERVICE INTERVALS

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	82	
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	84	
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	81	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	86	*5
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	85	
6	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	86	
7	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	86	
8	Air cleaner element Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	84	*1
		Replace															every 1 year	94	*2
	Secondary element	Replace															every 1 year	94	
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	85	
		Replace															every 2 year	96	*4
10	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	84	
		Replace								○							every 400 Hr	93	
11	Engine oil	Change	◎			○				○				○			every 200 Hr	88	
12	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	88	
13	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	89	
14	Toe-in	Adjust				○				○				○			every 200 Hr	91	
15	Power steering oil line	Check				○				○				○			every 200 Hr	91	
		Replace															every 2 year	96	*4
16	HST oil line [HST]	Check				○				○				○			every 200 Hr	90	
		Replace															every 2 year	96	*4

L3240-3, 3540-3, 3940-3, 4240-3, 4740-3, 5040-3, 5240-3, 5740-3

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	90	
		Replace															every 2 year	96	
18	Intake air line	Check				○				○				○			every 200 Hr	91	@
		Replace															every 2 year	96	
19	Hydraulic oil filter	Replace								○							every 400 Hr	92	
20	Transmission fluid	Change								○							every 400 Hr	92	
21	Front axle case oil	Change								○							every 400 Hr	93	
22	Greasing (2WD front wheel hub)	---								○							every 400 Hr	94	
23	Front axle pivot	Adjust												○			every 600 Hr	94	
24	Engine valve clearance	Adjust															every 800 Hr	94	*4
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	94	*4 @
26	Injection pump	Check															every 3000 Hr	94	*4 @
27	Turbo charger	Check															every 3000 Hr	94	*4 @
28	Lift cylinder hose	Replace															every 2 year	96	*4
29	Cooling system	Flush															every 2 year	94	
30	Coolant	Change															every 2 year	94	
31	Fuel system	Bleed															Service as required	96	
32	Clutch housing	Drain																97	
33	Fuse	Replace																97	
34	Light bulb	Replace																98	

IMPORTANT :

- The jobs indicated by◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities								Lubricants	
		L3240	L3540	L3940	L4240	L4740	L5040	L5240	L5740		
1	Fuel	44 L (11.6 U.S.gals.)		50 L (13.2 U.S.gals.)		54 L (14.3 U.S.gals.)			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)		
2	Coolant	6.0 L (6.3 U.S.qts.)	7.5 L (7.9 U.S.qts.)			8.2 L (8.7 U.S.qts.)			Fresh clean soft water with anti-freeze		
		Recovery tank: 1.0 L (1.1 U.S.qts.)									
3	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts.)	6.7 L (7.1 U.S.qts.)	8.2 L (8.7 U.S.qts.)		9.4 L (9.9 U.S.qts.)			● Engine oil : Refer to next page		
									Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40	
									0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40	
									Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40	
4	Transmission case	42 L (11.1 U.S.gals.)		43 L (11.4 U.S.gals.)		45 L (11.9 U.S.gals.)			● KUBOTA UDT or SUPER UDT fluid*		
5	Front axle case [4WD]	6.5 L (6.9 U.S.qts.)			9.0 L (9.5 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid* or SAE 80-SAE90 gear oil		
6	Greasing	No. of greasing points								Capacity	Type of grease
	Front wheel hub [2WD]	2	---							Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Knuckle shaft [2WD]	2	---								
	Front wheel case support	----			2						
	Front axle support [4WD]	2									
	Top link	2									
	Top link bracket	2 [with Draft Control (if equipped)]									
	Lift rod	1									
	Lift cylinder	4									
	Battery terminal	2							moderate amount	Engine oil	
	Swivel seat	4									
	Throttle cable	Oiling									

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

L3240-3, 3540-3, 3940-3, 4240-3, 4740-3, 5040-3, 5240-3, 5740-3

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Models	L3240, L3540, L3940, L4240, L4740, L5040	L5240, L5740

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

L3430, 4330, 4630, 5030 With CAB

SERVICE INTERVALS

(Only the Check Points for Tractors with CAB)

No.	Items		Daily	Indication on hour meter								Since then	Ref. page
				100	200	300	400	500	600	700	800		
1	Clogging of air conditioner condenser screen	Clean	○										13
2	Tension of air conditioner drive belt	Adjust			○		○		○		○	every 200 Hr	13
3	Clogging of inner air filter	Clean			○		○		○		○	every 200 Hr	13
4	Clogging of fresh air filter	Clean			○		○		○		○	every 200 Hr	14
5	Clogging of air conditioner condenser	Check			○		○		○		○	every 200 Hr	15
6	Air conditioner pipes and hoses	Check										every 1 year	15
		Replace										every 2 years	15
7	CAB isolation cushion	Check										every 1 year	15
8	Washer liquid	Check										service as required	16
9	Amount of refrigerant (gas)	Check										service as required	16

MAINTENANCE

L3560,L4060,L4760,L5060,
L5460,L6060

SERVICE INTERVALS

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	96	
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	98	
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	95	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	100	*5
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	98	
6	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	100	
7	Clutch [GST/MT]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	99	
8	Air cleaner element Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	98	*1
		Replace															every 1 year	109	*2
	Secondary element	Replace															every 1 year	109	
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	99	
		Replace															every 2 year	111	*4
10	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	102	
11	Toe-in	Adjust				○				○				○			every 200 Hr	104	
12	Power steering oil line	Check				○				○				○			every 200 Hr	104	
		Replace															every 2 year	111	*4
13	HST oil line [HST]	Check				○				○				○			every 200 Hr	103	
		Replace															every 2 year	111	*4
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	102	
		Replace															every 2 year	111	
15	Intake air line	Check				○				○				○			every 200 Hr	103	
		Replace															every 2 year	111	*3
16	Engine oil	Change	◎							○							every 400 Hr	104	

L3560,L4060,L4760,L5060,L5460,L6060

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Engine oil filter	Replace	⊙							○							every 400 Hr	105	
18	Water separator	Clean								○							every 400 Hr	108	
19	Fuel filter	Replace								○							every 400 Hr	107	@
20	Hydraulic oil filter	Replace								○							every 400 Hr	105	
21	Transmission fluid	Change								○							every 400 Hr	105	
22	Front axle case oil	Change								○							every 400 Hr	107	
23	Front axle pivot	Adjust												○			every 600 Hr	108	
24	Engine valve clearance	Adjust															every 800 Hr	108	*4
25	Fuel injection nozzle tip	Clean															every 1500 Hr	108	*4 @
26	Oil separator element	Replace															every 1500 Hr	108	@
27	PCV (Positive Crankcase Ventilation) valve (Oil separator)	Check															every 1500 Hr	109	*4 @
28	EGR cooler	Check Clean															every 1500 Hr	109	*4 @
29	EGR system	Check Clean															every 3000 Hr	109	*4 @
30	Supply pump	Check															every 3000 Hr	109	*4
31	DPF muffler	Clean															every 3000 Hr	109	*4 @
32	Turbo charger	Check															every 3000 Hr	109	*4 @
33	Exhaust manifold	Check															every 1 year	109	*4
34	DPF differential pressure sensor pipe	Check															every 1 year	109	*4
35	EGR pipe	Check															every 1 year	109	*4
36	PCV (Positive Crankcase Ventilation) valve hose	Replace															every 2 year	111	*4
37	DPF differential pressure sensor hose	Replace															every 2 year	111	*4
38	Boost sensor hose	Replace															every 2 year	111	*4
39	Lift cylinder hose	Replace															every 2 year	111	*4

L3560,L4060,L4760,L5060,L5460,L6060

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
40	Cooling system	Flush															every 2 year	109	
41	Coolant	Change															every 2 year	109	
42	Fuel system	Bleed															Service as required	111	
43	Clutch housing	Drain																112	
44	Fuse	Replace																112	
45	Light bulb	Replace																113	

IMPORTANT :

- The jobs indicated by ☉ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities						Lubricants			
		L3560	L4060	L4760	L5060	L5460	L6060				
1	Fuel	51 L (13.5 U.S.gals.)						No. 2-D S15 diesel fuel No. 1-D S15 diesel fuel if temperature is below -10 °C (14 °F)			
2	Coolant	7.5 L (7.9 U.S.qts.)			8.2 L (8.7 U.S.qts.)			Fresh clean soft water with anti-freeze			
		Recovery tank: 0.6 L (0.6 U.S.qts.)									
3	Engine crankcase (with filter)	6.7 L (7.1 U.S.qts.)	8.2 L (8.7 U.S.qts.)	9.4 L (9.9 U.S.qts.)				● Engine oil : Refer to next page			
								Above 25 °C (77 °F)		SAE30, SAE10W-30 or 15W-40	
								0 to 25 °C (32 to 77 °F)		SAE20, SAE10W-30 or 15W-40	
								Below 0 °C (32 °F)		SAE10W, SAE10W-30 or 15W-40	
4	Transmission case	42 L (11.1 U.S.gals.)	43 L (11.4 U.S.gals.)	45 L (11.9 U.S.gals.)				● KUBOTA SUPER UDT-2 fluid			
5	Front axle case	6.5 L (6.9 U.S.qts.)		8.5 L (8.9 U.S.qts.)				● KUBOTA SUPER UDT-2 fluid or SAE80-SAE90 gear oil			
6	Greasing	No. of greasing points						Capacity	Type of grease		
	Front wheel case support	----		2				Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)		
	Front axle support	2									
	Top link	2									
	Top link bracket	2 [with Draft Control (if equipped)]									
	Lift rod	1									
	Lift cylinder	4									
	Battery terminal	2						moderate amount			
	Swivel seat	4									

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :
◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class of engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ Fuel:

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE OF THE TRACTOR

SERVICE INTERVALS

L39

No.	Items		Indication on hour meter									Since then	Ref. page		
			50	100	150	200	250	300	350	400	450				
1	Engine oil	Change	☉	○		○		○		○		every 100 Hr	72		
2	Engine oil filter	Replace	☉			○				○		every 200 Hr	77		
3	Hydraulic oil filter	Replace	☉			○				○		every 200 Hr	78		
4	Transmission fluid	Change	☉							○		every 400 Hr	82		
5	Front axle case oil	Change	☉							○		every 400 Hr	82		
6	Front axle pivot	Adjust										every 600 Hr	83		
7	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	70		
8	Oiling	-	○	○	○	○	○	○	○	○	○	every 50 Hr	71		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	71		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	72		
11	Battery condition	Check		○		○		○		○		every 100 Hr	76	*5	
12	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○	every 100 Hr	73	*1	@
		Replace										every 1 year	83	*2	
		Secondary element	Replace									every 1 year	83		
13	Fuel filter element	Clean		○		○		○		○		every 100 Hr	73		@
		Replace								○		every 400 Hr	82		
14	Fan belt	Adjust		○		○		○		○		every 100 Hr	74		
15	Clutch	Adjust		○		○		○		○		every 100 Hr	75		
16	Brake	Adjust	☉	○		○		○		○		every 100 Hr	75		
17	Radiator hose and clamp	Check				○				○		every 200 Hr	79		
		Replace										every 2 year	85		
18	Oil cooler line / Power steering oil line	Check				○				○		every 200 Hr	79		
		Replace										every 2 year	85, 85		
19	Fuel line	Check		○		○		○		○		every 100 Hr	74		@
		Replace										every 2 year	85	*3	
20	Toe-in	Adjust				○				○		every 200 Hr	80		
21	Intake air line	Check				○				○		every 200 Hr	80		@
		Replace										every 2 year	85	*3	
22	Engine valve clearance	Adjust										every 800 Hr	83	*4	
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	83	*4	@
24	Injection pump	Check										every 3000 Hr	83	*4	@
25	Cooling system	Flush										every 2 year	83		
26	Coolant	Change										every 2 year	83		
27	Fuel system	Bleed										Service as required	85		
28	Clutch housing water	Drain											86		
29	Fuse	Replace											86		
30	Light bulb	Replace											87		
31	Spark arrester muffler	Clean					○					every 250 Hr	81		

L39

No.	Items		Indication on hour meter									Since then	Ref. page		
			500	550	600	650	700	750	800	850	900				
1	Engine oil	Change	○		○		○		○		○	every 100 Hr	72		
2	Engine oil filter	Replace			○				○			every 200 Hr	77		
3	Hydraulic oil filter	Replace			○				○			every 200 Hr	78		
4	Transmission fluid	Change							○			every 400 Hr	82		
5	Front axle case oil	Change							○			every 400 Hr	82		
6	Front axle pivot	Adjust			○							every 600 Hr	83		
7	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	70		
8	Oiling	-	○	○	○	○	○	○	○	○	○	every 50 Hr	71		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	71		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	72		
11	Battery condition	Check	○		○		○		○		○	every 100 Hr	76	*5	
12	Air cleaner element [Double type]	Primary element	Clean	○	○		○		○		○	every 100 Hr	73	*1	@
		Replace										every 1 year	83	*2	
		Secondary element	Replace									every 1 year	83		
13	Fuel filter element	Clean	○		○		○		○		○	every 100 Hr	73		@
		Replace							○			every 400 Hr	82		
14	Fan belt	Adjust	○		○		○		○		○	every 100 Hr	74		
15	Clutch	Adjust	○		○		○		○		○	every 100 Hr	75		
16	Brake	Adjust	○		○		○		○		○	every 100 Hr	75		
17	Radiator hose and clamp	Check			○				○			every 200 Hr	79		
		Replace										every 2 year	85		
18	Power steering oil line	Check			○				○			every 200 Hr	79		
		Replace										every 2 year	85, 85		
19	Fuel line	Check	○		○		○		○		○	every 100 Hr	74		@
		Replace										every 2 year	85	*3	
20	Toe-in	Adjust			○				○			every 200 Hr	80		
21	Intake air line	Check			○				○			every 200 Hr	80		@
		Replace										every 2 year	85	*3	
22	Engine valve clearance	Adjust							○			every 800 Hr	83	*4	
23	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	83	*4	@
24	Injection pump	Check										every 3000 Hr	83	*4	@
25	Cooling system	Flush										every 2 year	83		
26	Coolant	Change										every 2 year	83		
27	Fuel system	Bleed										Service as required	85		
28	Clutch housing water	Drain											86		
29	Fuse	Replace											86		
30	Light bulb	Replace											87		
31	Spark arrester muffler	Clean	○					○				every 250 Hr	81		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities	Lubricants	
		L39		
1	Fuel	40 L (10.6 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	7.5 L (7.9 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts.)	● Engine oil: API Service Classification CD, CE or CF	
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 10W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 10W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 10W-40
4	Transmission case	43 L (11.4 U.S.gals.)	● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case [4WD]	6.5 L (6.9 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid* or SAE 80-SAE90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	Front axle support	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Top link	2		
	Lift rod	1		
	Battery terminal	2	moderate amount	
	Suspension adjuster	---		
	Lock plate	---		
	Spring hook	---		
	Reversible seat	---		
	Throttle cable	Oiling		Engine oil

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

L39

NOTE:

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C (14 °F).

◆ Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

L4400

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	61		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	62		
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	60		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	65	*5	
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	64		
6	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	65		
7	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	64		
8	Air cleaner element [Double element type]	Clean		○		○		○		○		○		○		○	every 100 Hr	63	*1	@
	Primary element	Replace															every 1 year	73	*2	
	Air cleaner element [Double element type] Secondary element	Replace															every 1 year	73		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	65		@
		Replace															every 2 year	75	*3	
10	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	63		@
		Replace								○							every 400 Hr	72		
11	Engine oil	Change	◎			○				○				○			every 200 Hr	67		
12	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	67		
13	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	68		
14	Toe-in	Adjust				○				○				○			every 200 Hr	70		
15	Power steering oil line	Check				○				○				○			every 200 Hr	70		
		Replace															every 2 year	75		
16	Radiator hose and clamp	Check				○				○				○			every 200 Hr	69		
		Replace															every 2 year	75		

L4400

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Intake air line	Check				○				○				○			every 200 Hr	69	@
		Replace															every 2 year	75	
18	Oil cooler line [HST]	Check				○				○				○			every 200 Hr	69	
		Replace															every 2 year	75	
19	Hydraulic oil filter	Replace	◎							○							every 400 Hr	71	
20	Transmission fluid	Change								○							every 400 Hr	71	
21	Front axle case oil	Change								○							every 400 Hr	72	
22	Greasing (2WD front wheel hub)	-								○							every 400 Hr	73	
23	Front axle pivot	Adjust												○			every 600 Hr	73	
24	Engine valve clearance	Adjust															every 800 Hr	73	*4
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	73	*4 @
26	Injection pump	Check															every 3000 Hr	73	*4 @
27	Cooling system	Flush															every 2 year	74	
28	Coolant	Change															every 2 year	74	
29	Fuel system	Bleed															Service as required	76	
30	Clutch housing water	Drain																76	
31	Fuse	Replace																77	
32	Light bulb	Replace																77	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

L4400

No.	Locations	Capacities	Lubricants	
1	Fuel	42 L (11.1 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C(14°F)	
2	Coolant	6.5 L (6.9 U.S.qts.)	Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	7.6 L (8.0 U.S.qts.)	• Engine oil : Refer to next page	
			Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
			0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
			Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	40.0 L (10.6 U.S.gals.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case	6.5 L (6.9 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid or SAE80 - SAE 90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	• Front wheel hub [2WD]	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	• Knuckle shaft [2WD]	2		
	• Front axle support [4WD]	2		
	• Top link	1		
	• Top link bracket	2 [with Draft Control (if equipped)]		
	• Lift rod	1		
	• Battery terminals	2	moderate amount	

NOTE: *KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

L4400

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	L4400	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

L4600

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	60		
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	61		
3	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	62		
4	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	62	*4	
5	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	65	*5	
6	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	64		
7	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	59		
8	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	65		
9	Air cleaner element	Primary element Clean		○		○		○		○		○		○		○	every 100 Hr	63	*1	@
		Replace															every 1 year	72	*2	
		Secondary element Replace															every 1 year	72		
10	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	63		@
		Replace								○							every 400 Hr	72		
11	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	64		@
		Replace															every 2 year	74	*4	
12	Engine oil	Change	◎			○				○				○			every 200 Hr	67		
13	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	66		
14	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	67		
15	Toe-in	Adjust				○				○				○			every 200 Hr	69		
16	Radiator hose and clamp	Check				○				○				○			every 200 Hr	68		
		Replace															every 2 year	74		

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Power steering oil line	Check				○				○				○			every 200 Hr	69	
		Replace															every 2 year	74	*4
18	Intake air line	Check				○				○				○			every 200 Hr	69	
		Replace															every 2 year	74	*4
19	Oil cooler line [HST]	Check				○				○				○			every 200 Hr	68	
		Replace															every 2 year	74	*4
20	Hydraulic oil filter	Replace	◎							○							every 400 Hr	70	
21	Transmission fluid	Change								○							every 400 Hr	70	
22	Front axle case oil (4WD)	Change								○							every 400 Hr	71	
23	Greasing (2WD front wheel hub)	-								○							every 400 Hr	72	
24	Front axle pivot	Adjust												○			every 600 Hr	72	
25	Engine valve clearance	Adjust															every 800 Hr	72	*4
26	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	72	*4 @
27	Injection pump	Check															every 3000 Hr	72	*4 @
28	Cooling system	Flush															every 2 year	72	
29	Coolant	Change															every 2 year	72	
30	Fuel system	Bleed																74	
31	Clutch housing water	Drain															Service as required	75	
32	Fuse	Replace																75	
33	Light bulb	Replace																76	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lubricants	
1	Fuel	48.0 L (12.7 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	6.5 L (6.9 U.S.qts.)	Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	7.6 L (8.0 U.S.qts.)	• Engine oil : Refer to next page	
			Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
			0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
			Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	40.0 L (10.6 U.S. gals.)	• KUBOTA SUPER UDT-2 fluid	
5	Front axle case [4WD]	6.5 L (6.9 U.S.qts.)	• KUBOTA SUPER UDT-2 fluid or SAE 80 - SAE 90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	• Front wheel hub	2 [2WD only]	A small amount	Bearing grease
	• Knuckle shaft	2 [2WD only]	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	• Front axle support	2 [4WD only]		
	• Tie-rod ends	2 [4WD only]		
	• Battery terminals	2		
	• Lift rod	2		
	• Top link	2		
	• Hydraulic arm shaft	2		

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further detail.

For North American market

NOTE :

◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel.

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	except external EGR	with external EGR
Model	L4600	---

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE OF THE TRACTOR L45,M59

SERVICE INTERVALS

No.	Items		Indication on hour meter									Since then	Ref. page		
			50	100	150	200	250	300	350	400	450				
1	Engine oil	Change	☉			○				○		every 200 Hr	88		
2	Engine oil filter	Replace	☉			○				○		every 200 Hr	89		
3	Transmission oil filter [HST]	Replace	☉			○				○		every 200 Hr	89		
4	Hydraulic oil filter	Replace	☉							○		every 400 Hr	94		
5	Transmission fluid	Change								○		every 400 Hr	94		
6	Front axle case oil	Change								○		every 400 Hr	95		
7	Front axle pivot	Adjust										every 600 Hr	96		
8	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	79		
9	Oiling	-	○	○	○	○	○	○	○	○	○	every 50 Hr	80		
10	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	81		
11	Wheel nut torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	82		
12	Battery condition	Check		○		○		○		○		every 100 Hr	86	*5	
13	Air cleaner element [Double type]	Primary element	Clean	○		○		○		○		every 100 Hr	82	*1	@
		Replace										every 1 year	96	*2	
		Secondary element	Replace									every 1 year	96		
14	Fuel filter element	Clean		○		○		○		○		every 100 Hr	83		@
		Replace								○		every 400 Hr	95		
15	Fan belt	Adjust		○		○		○		○		every 100 Hr	84		
16	Clutch	Adjust	☉	○		○		○		○		every 100 Hr	85		
17	Brake	Adjust		○		○		○		○		every 100 Hr	85		
18	Rear parking brake (cable)	Adjust		○		○		○		○		every 100 Hr	86		
		Replace										every 2 year	98		
19	Radiator hose and clamp	Check				○				○		every 200 Hr	90		
		Replace										every 2 year	98		
20	Oil cooler line / Power steering oil line	Check				○				○		every 200 Hr	91		
		Replace										every 2 year	98, 98		
21	Fuel line	Check		○		○		○		○		every 100 Hr	84		@
		Replace										every 2 year	98	*3	
22	Toe-in	Adjust				○				○		every 200 Hr	92		
23	Intake air line	Check				○				○		every 200 Hr	92		@
		Replace										every 2 year	98	*3	
24	Engine valve clearance	Adjust										every 800 Hr	96	*4	
25	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	96	*4	@
26	Injection pump	Check										every 3000 Hr	96	*4	@
27	Turbo charger [M59]	Check										every 3000 Hr	96	*4	@
28	Cooling system	Flush										every 2 year	97		
29	Coolant	Change										every 2 year	97		
30	Fuel system	Bleed										Service as required	99		
31	Clutch housing water	Drain											99		
32	Fuse	Replace											100		
33	Light bulb	Replace											101		
34	Spark arrester muffler	Clean					○					every 250 Hr	93		

L45,M59

No.	Items		Indication on hour meter									Since then	Ref. page		
			500	550	600	650	700	750	800	850	900				
1	Engine oil	Change			○				○			every 200 Hr	88		
2	Engine oil filter	Replace			○				○			every 200 Hr	89		
3	Transmission oil filter [HST]	Replace			○				○			every 200 Hr	89		
4	Hydraulic oil filter	Replace			○				○			every 400 Hr	94		
5	Transmission fluid	Change							○			every 400 Hr	94		
6	Front axle case oil	Change							○			every 400 Hr	95		
7	Front axle pivot	Adjust			○							every 600 Hr	96		
8	Greasing	-	○	○	○	○	○	○	○	○	○	every 50 Hr	79		
9	Oiling	-	○	○	○	○	○	○	○	○	○	every 50 Hr	80		
10	Engine start system	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	81		
11	Wheel nut torque	Check	○	○	○	○	○	○	○	○	○	every 50 Hr	82		
12	Battery condition	Check	○		○		○		○		○	every 100 Hr	86	*5	
13	Air cleaner element [Double type]	Primary element	Clean	○	○		○		○		○	every 100 Hr	82	*1	@
		Replace										every 1 year	96	*2	
		Secondary element	Replace									every 1 year	96		
14	Fuel filter element	Clean	○		○		○		○		○	every 100 Hr	83		@
		Replace							○			every 400 Hr	95		
15	Fan belt	Adjust	○		○		○		○		○	every 100 Hr	84		
16	Clutch	Adjust	○		○		○		○		○	every 100 Hr	85		
17	Brake	Adjust	○		○		○		○		○	every 100 Hr	85		
18	Rear parking brake (cable)	Adjust	○		○		○		○		○	every 100 Hr	86		
		Replace										every 2 year	98		
19	Radiator hose and clamp	Check			○				○			every 200 Hr	90		
		Replace										every 2 year	98		
20	Oil cooler line / Power steering oil line	Check			○				○			every 200 Hr	91		
		Replace										every 2 year	98, 98		
21	Fuel line	Check	○		○		○		○		○	every 100 Hr	84		@
		Replace										every 2 year	98	*3	
22	Toe-in	Adjust			○				○			every 200 Hr	92		
23	Intake air line	Check			○				○			every 200 Hr	92		@
		Replace										every 2 year	98	*3	
24	Engine valve clearance	Adjust							○			every 800 Hr	96	*4	
25	Fuel injection nozzle Injection pressure	Check										every 1500 Hr	96	*4	@
26	Injection pump	Check										every 3000 Hr	96	*4	@
27	Turbo charger [M59]	Check										every 3000 Hr	96	*4	@
28	Cooling system	Flush										every 2 year	97		
29	Coolant	Change										every 2 year	97		
30	Fuel system	Bleed										Service as required	99		
31	Clutch housing water	Drain											99		
32	Fuse	Replace											100		
33	Light bulb	Replace											101		
34	Spark arrester muffler	Clean	○					○				every 250 Hr	93		

IMPORTANT :

● The jobs indicated by◎ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

*2 Every year or every 6 times of cleaning.

*3 Replace only if necessary.

*4 Consult your local KUBOTA Dealer for this service.

*5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.

Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		L45	M59		
1	Fuel	45 L (11.9 U.S.gals.)	55 L (14.6 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	6.5 L (6.9 U.S.qts.) Recovery tank 1.0 L (1.1 U.S.qts.)	6.5 L (6.9 U.S.qts.) Recovery tank 1.0 L (1.1 U.S. qts.)	Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	8.2 L (8.7 U.S.qts.)	9.4 L (9.9 U.S.qts.)	● Engine oil: Refer to next page	
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	46 L (12.2 U.S.gals.)	46 L (12.2 U.S.gals.)	● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case [4WD]	7.0 L (7.4 U.S.qts.)	12.5 L (13.2 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid* or SAE 80-SAE90 gear oil	
6	Greasing	No. of greasing points		Capacity	Type of grease
	Front axle support	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
	Top link	2			
	Lift rod	1			
	Battery terminal	2		Moderate amount	
	Suspension adjuster	---			
	Lock plate	---			
	Spring hook	---			
	Reversible seat	---			
	Throttle cable	Oiling			

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

L45,M59

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.
- Recommended API categorization
All models meeting Third Stage Exhaust Emissions Regulations Specification.

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	L45	M59

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M100X, M110X, M126X, M135X

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	93			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	94			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	98	*5		
4	Greasing			○		○		○		○		○		○		○	every 100 Hr	94			
5	Fan belt [M100X, M110X]	Adjust		○		○		○		○		○		○		○	every 100 Hr	96			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	97			
7	Parking Brake Lever	Adjust		○		○		○		○		○		○		○	every 100 Hr	97			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	95	*1	@
		Replace															every 1 year	112	*2		
		Second-ary element	Replace															every 1 year	112		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	96		@	
		Replace															every 2 years	114	*4		
10	Toe-in	Adjust				○				○				○			every 200 Hr	102			
11	Fuel tank water	Drain				○				○				○			every 200 Hr	102			
12	Oil cooler line	Check				○				○				○			every 200 Hr	101			
		Replace															every 2 years	114			
13	Power steering oil line	Check				○				○				○			every 200 Hr	101			
		Replace															every 2 years	114	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	100			
		Replace															every 2 years	114			
15	Intake air line	Check				○				○				○			every 200 Hr	101		@	
		Replace															every 2 years	114	*3		

M100X, M110X, M126X, M135X

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
16	Hydraulic oil filter (suction side)	Replace	⊙					○						○			every 300 Hr	104	
17	Hydraulic oil filter (return side)	Replace	⊙					○						○			every 300 Hr	105	
18	Engine oil	Change	⊙							○							every 400 Hr	106	
19	Engine oil filter	Replace	⊙							○							every 400 Hr	106	
20	Water separator	Clean								○							every 400 Hr	109	
21	Fuel filter	Replace								○							every 400 Hr	108	@
22	Fan / Air-conditioner belt [M126X, M135X]	Adjust	⊙							○							every 400 Hr	107	
23	Fuel solenoid pump [M126X, M135X]	Clean								○							every 400 Hr	109	
24	Transmission fluid	Change	⊙											○			every 600 Hr	110	
25	Front differential case oil	Change												○			every 600 Hr	110	
26	Front axle gear case oil	Change												○			every 600 Hr	111	
27	Brake oil	Change												○			every 600 Hr	111	*4
28	Front axle pivot	Adjust												○			every 600 Hr	111	
29	King-pin pivot	Adjust												○			every 600 Hr	111	
30	Engine valve clearance	Adjust															every 800 Hr	112	*4
31	Fuel injector active test	Check															every 1500 Hr	112	*4 @
32	Turbo charger	Check															every 3000 Hr	112	*4 @
33	Supply pump	Check															every 3000 Hr	112	*4 @
34	Intake air heater [M100X, M110X]	Check															every 3000 Hr	112	*4
35	Cooling system	Flush															every 2 years	112	
36	Coolant	Change															every 2 years	112	
37	Parking brake cable	Replace															every 2 years	114	*4
38	Brake hose / Brake tank hose	Replace															every 2 years	114	*4
39	Clutch hose	Replace															every 2 years	114	*4
40	Differential lock hose	Replace															every 2 years	114	*4

M100X, M110X, M126X, M135X

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
41	Master cylinder kit	Replace															every 2 years	114	*4	
42	Equalizer kit	Replace															every 2 years	114	*4	
43	Brake seal 1 and 2	Replace															every 2 years	114	*4	
44	Assist cylinder hose	Replace															every 2 years	114	*4	
45	Fuel system	Bleed															Service as required	114		
46	Brake system	Bleed															Service as required	115	*4	
47	Clutch housing water	Drain															Service as required	115		
48	Fuse	Replace															Service as required	116		
49	Light bulb	Replace															Service as required	118		

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	103		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	103		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	104		
4	Air conditioner drive belt [M100X, M110X]	Adjust				○				○				○			every 200 Hr	104		
5	Air conditioner pipes and hoses	Check															every 1 year	112		
		Replace															every 2 years	114		
6	CAB isolation cushion	Check															every 1 year	112		
7	Washer liquid	Add															Service as required	119		
8	Refrigerant (gas)	Check															Service as required	119		

IMPORTANT :

● The jobs indicated by ○ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

*2 Every year or every 6 times of cleaning.

*3 Replace only if necessary.

*4 Consult your local KUBOTA Dealer for this service.

*5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.

Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities				Lubricants	
		M100X	M110X	M126X	M135X		
1	Fuel	190 L (50.2 U.S.gals.)				No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9.6 L (10.1 U.S.qts.) (Recovery tank: 1.1 L (1.2 U.S. qts.))		14.6 L (15.4 U.S.qts.) (Recovery tank: 1.5 L (1.6 U.S. qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)				Automobile washer liquid	
4	Engine crankcase (with filter)	10.5 L (11.1 U.S.qts.)		14.6 L (15.4 U.S.qts.)		● Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
						Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
						0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
						Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	60 L (63.4 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid*	
6	Brake oil (reservoir and lines)	0.3 L (0.3 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid* or Turbine oil 32 (See below) regular type, multipurpose straight mineral oil Mobile DTE Oil #32 TEXACO Regal Oil #32 CHEVRON -GST Oil #32 TERESSO OIL #32 Never use automotive brake oil.	
7	Front differential case oil	7 L (7.4 U.S.qts.)		13 L (13.7 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
8	Front axle gear case oil	3.5 L (3.7 U.S.qts.)		4.5 L (4.8 U.S.qts.)			
9	Greasing	No. of greasing points				Capacity	Type of grease
	Top link	2				Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	3					
	Front axle gear case support	2					
	Front axle support	2					
	Steering joint shaft	1					
	Assist cylinder (if equipped)	2					
	Battery terminal	2				A small amount	

M100X, M110X, M126X, M135X

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

NOTE :

◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M100GX, M110GX, M126GX,
M135GX

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	113		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	114		
3	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	114		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	119	*5	
5	Greasing			○		○		○		○		○		○		○	every 100 Hr	115		
6	Fan belt [M100GX, M110GX]	Adjust		○		○		○		○		○		○		○	every 100 Hr	117		
7	Brake pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	118		
8	Parking brake lever	Adjust		○		○		○		○		○		○		○	every 100 Hr	119		
9	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		every 100 Hr	117	*1	
		Replace															every 1 year	135	*2	
		Secondary element	Replace														every 1 year	135		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	118		
		Replace															every 2 years	137	*4	
11	Toe-in	Adjust				○				○				○			every 200 Hr	123		
12	Fuel tank water	Drain				○				○				○			every 200 Hr	124		
13	Oil cooler line	Check				○				○				○			every 200 Hr	122		
		Replace															every 2 years	137		
14	Power steering oil line	Check				○				○				○			every 200 Hr	123		
		Replace															every 2 years	137	*4	
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	121		
		Replace															every 2 years	137		

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
16	Intake air line	Check				○				○				○			every 200 Hr	122	
		Replace															every 2 years	137	*3
17	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	126	
18	Engine oil	Change	◎							○							every 400 Hr	127	
19	Engine oil filter	Replace	◎							○							every 400 Hr	128	
20	Water separator	Clean								○							every 400 Hr	130	
21	Pre-Fuel filter [M126GX, M135GX]	Clean								○							every 400 Hr	129	
22	Fuel filter [M100GX, M110GX]	Replace								○							every 400 Hr	130	
23	Fan / Air-conditioner belt [M126GX, M135GX]	Adjust	◎							○							every 400 Hr	128	
24	Fuel solenoid pump [M126GX, M135GX]	Clean								○							every 400 Hr	131	
25	Transmission fluid	Change	◎											○			every 600 Hr	132	
26	Front differential case oil	Change												○			every 600 Hr	132	
27	Front axle gear case oil	Change												○			every 600 Hr	133	
28	Front axle pivot	Adjust												○			every 600 Hr	133	
29	King-pin pivot	Adjust												○			every 600 Hr	133	
30	Fuel filter [M126GX, M135GX]	Replace															every 800 Hr	134	
31	Engine valve clearance	Adjust															every 800 Hr	134	*4
32	Fuel injector nozzle tip	Clean															every 1500 Hr	134	*4 @
33	Oil separator element	Replace															every 1500 Hr	134	@
34	PCV (Positive Crankcase Ventilation) valve (Oil separator)	Check															every 1500 Hr	134	*4 @
35	EGR cooler	Check Clean															every 1500 Hr	135	*4 @
36	Accumulator [Front suspension type]	Check															every 1500 Hr	135	*4
37	Turbo charger	Check															every 3000 Hr	135	*4 @
38	Supply pump	Check															every 3000 Hr	135	*4

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
39	EGR system	Check Clean															every 3000 Hr	135	*4	@
40	DPF muffler	Clean															every 3000 Hr	135	*4	@
41	Intake air heater [M100GX, M110GX]	Check															every 3000 Hr	135	*4	
42	Exhaust manifold	Check															every 1 year	135	*4	
43	DPF differential pressure sensor pipe	Check															every 1 year	135	*4	
44	EGR pipe	Check															every 1 year	135	*4	
45	Cooling system	Flush															every 2 years	135		
46	Coolant	Change															every 2 years	135		
47	PCV valve hose	Replace															every 2 years	137	*4	
48	DPF differential pressure sensor hose	Replace															every 2 years	137	*4	
49	Boost sensor hose	Replace															every 2 years	138	*4	
50	Parking brake cable	Replace															every 2 years	138	*4	
51	Lift cylinder hose	Replace															every 2 years	138		
52	Brake hose	Replace															every 2 years	138	*4	
53	Clutch hose	Replace															every 2 years	138	*4	
54	Differential lock hose	Replace															every 2 years	138	*4	
55	Master cylinder kit	Replace															every 2 years	138	*4	
56	Equalizer kit	Replace															every 2 years	138	*4	
57	Brake seal 1 and 2	Replace															every 2 years	138	*4	
58	Front suspension hose [Front suspension type]	Replace															every 2 years	138	*4	
59	Fuel system	Bleed															Service as required	138		
60	Brake system	Bleed															Service as required	139	*4	
61	Clutch housing water	Drain															Service as required	139		

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No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
62	Fuse	Replace															Service as required	139		
63	Light bulb	Replace															Service as required	142		

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	125		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	125		
3	Air conditioner drive belt [M100GX, M110GX]	Adjust				○				○				○			every 200 Hr	126		
4	Air conditioner pipes and hoses	Check															every 1 year	135		
		Replace															every 2 years	138		
5	CAB isolation cushion	Check															every 1 year	135		
6	Washer liquid	Add															Service as required	143		
7	Refrigerant (gas)	Check															Service as required	143		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities				Lubricants	
		M100GX	M110GX	M126GX	M135GX		
1	Fuel	190 L (50.2 U.S.gals.)				No.2-D S15 diesel fuel No.1-D S15 diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9.6 L (10.1 U.S.qts.) (Recovery tank: 1.1 L (1.2 U.S.qts.))		14.6 L (15.4 U.S.qts.) (Recovery tank: 1.5 L (1.6 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	2 L (2.1 U.S.qts.)				Automobile washer liquid	
4	Engine crankcase (with filter)	10.5 L (11.1 U.S.qts.)		14.6 L (15.4 U.S.qts.)		● Engine oil: API Service Classification	CJ-4 [DPF type engine]
						Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
						0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
						Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	65 L (68.7 U.S.qts.)				● KUBOTA SUPER UDT2 fluid*	
6	Front differential case oil	7 L (7.4 U.S.qts.)		13 L (13.7 U.S.qts.)		● KUBOTA SUPER UDT2 fluid* or SAE 80 - SAE 90 gear oil	
7	Front axle gear case oil	3.5 L (3.7 U.S.qts.)		4.5 L (4.8 U.S.qts.)			
8	Greasing	No. of greasing points				Capacity	Type of grease
	Top link	2				Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	2					
	Front axle gear case support	2					
	Front axle support	2					
	Hydraulic lift cylinder pin	4					
	Hydraulic arm axle	1					
	Battery terminal	2				A small amount	

[Front suspension type]

8	Greasing	No. of greasing points	Capacity	Type of grease
	Suspension cylinder	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Suspension arm	2		
	Universal joint	4		

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class of engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ **Fuel:**

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M126X Power Krawler

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	96			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	97			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	101	*5		
4	Greasing			○		○		○		○		○		○		○	every 100 Hr	97			
5	Fan belt [M100X, M110X]	Adjust		○		○		○		○		○		○		○	every 100 Hr	99			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	100			
7	Parking Brake Lever	Adjust		○		○		○		○		○		○		○	every 100 Hr	101			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	99	*1	@
		Replace															every 1 year	116	*2		
		Second-ary element	Replace															every 1 year	116		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	100		@	
		Replace															every 2 years	118	*4		
10	Toe-in	Adjust				○				○				○			every 200 Hr	106			
11	Fuel tank water	Drain				○				○				○			every 200 Hr	106			
12	Oil cooler line	Check				○				○				○			every 200 Hr	105			
		Replace															every 2 years	118			
13	Power steering oil line	Check				○				○				○			every 200 Hr	105			
		Replace															every 2 years	118	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	104			
		Replace															every 2 years	118			
15	Intake air line	Check				○				○				○			every 200 Hr	105		@	
		Replace															every 2 years	118	*3		

M126X Power Krawler

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
16	Hydraulic oil filter (suction side)	Replace	◎					○						○			every 300 Hr	108		
17	Hydraulic oil filter (return side)	Replace	◎					○						○			every 300 Hr	109		
18	Engine oil	Change	◎							○							every 400 Hr	110		
19	Engine oil filter	Replace	◎							○							every 400 Hr	110		
20	Water separator	Clean								○							every 400 Hr	113		
21	Fuel filter	Replace								○							every 400 Hr	112		@
22	Fan / Air-conditioner belt [M126X, M135X]	Adjust	◎							○							every 400 Hr	111		
23	Fuel solenoid pump [M126X, M135X]	Clean								○							every 400 Hr	113		
24	Transmission fluid	Change	◎											○			every 600 Hr	114		
25	Front differential case oil	Change												○			every 600 Hr	114		
26	Front axle gear case oil	Change												○			every 600 Hr	115		
27	Brake oil	Change												○			every 600 Hr	115	*4	
28	Front axle pivot	Adjust												○			every 600 Hr	115		
29	King-pin pivot	Adjust												○			every 600 Hr	115		
30	Engine valve clearance	Adjust															every 800 Hr	116	*4	
31	Fuel injector active test	Check															every 1500 Hr	116	*4	@
32	Accumulator [Front suspension type]	Check															every 1500 Hr	116	*4	
33	Turbo charger	Check															every 3000 Hr	116	*4	@
34	Supply pump	Check															every 3000 Hr	116	*4	@
35	Intake air heater [M100X, M110X]	Check															every 3000 Hr	116	*4	
36	Cooling system	Flush															every 2 years	116		
37	Coolant	Change															every 2 years	116		
38	Parking brake cable	Replace															every 2 years	118	*4	
39	Brake hose / Brake tank hose	Replace															every 2 years	118	*4	
40	Clutch hose	Replace															every 2 years	118	*4	

M126X Power Krawler

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
41	Differential lock hose	Replace														every 2 years	118	*4		
42	Master cylinder kit	Replace														every 2 years	118	*4		
43	Equalizer kit	Replace														every 2 years	118	*4		
44	Brake seal 1 and 2	Replace														every 2 years	118	*4		
45	Assist cylinder hose	Replace														every 2 years	119	*4		
46	Front suspension hose [Front suspension type]	Replace														every 2 years	119	*4		
47	Fuel system	Bleed														Service as required	119			
48	Brake system	Bleed														Service as required	120	*4		
49	Clutch housing water	Drain														Service as required	120			
50	Fuse	Replace														Service as required	120			
51	Light bulb	Replace														Service as required	122			

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	107		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	107		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	108		
4	Air conditioner drive belt [M100X, M110X]	Adjust				○				○				○			every 200 Hr	108		
5	Air conditioner pipes and hoses	Check															every 1 year	116		
		Replace															every 2 years	119		
6	CAB isolation cushion	Check															every 1 year	116		
7	Washer liquid	Add															Service as required	123		
8	Refrigerant (gas)	Check															Service as required	123		

M126X Power Krawler

IMPORTANT :

- The jobs indicated by ☉ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities				Lubricants	
		M100X	M110X	M126X	M135X		
1	Fuel	190 L (50.2 U.S.gals.)				No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9.6 L (10.1 U.S.qts.) (Recovery tank: 1.1 L (1.2 U.S.qts.))		14.6 L (15.4 U.S.qts.) (Recovery tank: 1.5 L (1.6 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)				Automobile washer liquid	
4	Engine crankcase (with filter)	10.5 L (11.1 U.S.qts.)		14.6 L (15.4 U.S.qts.)		● Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
						Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
						0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
						Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	60 L (63.4 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid*	
6	Brake oil (reservoir and lines)	0.3 L (0.3 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid* or Turbine oil 32 (See below) regular type, multipurpose straight mineral oil Mobile DTE Oil #32 TEXACO Regal Oil #32 CHEVRON -GST Oil #32 TERESSO OIL #32 Never use automotive brake oil.	
7	Front differential case oil	7 L (7.4 U.S.qts.)		13 L (13.7 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
8	Front axle gear case oil	3.5 L (3.7 U.S.qts.)		4.5 L (4.8 U.S.qts.)			
9	Greasing	No. of greasing points				Capacity	Type of grease
	Top link	2				Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	3					
	Front axle gear case support	2					
	Front axle support	2					
	Steering joint shaft	1					
	Assist cylinder (if equipped)	2					
	Battery terminal	2				A small amount	

[Front suspension type]

9	Greasing	No. of greasing points	Capacity	Type of grease
	Suspension cylinder	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Suspension arm	2		
	Universal joint	4		

M126X Power Krawler

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

NOTE :
◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M4700, M5400, M6800, M8200, M9000

SERVICE INTERVALS

No.	Items	Period	Indication on hour meter														Since then	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
M4700·M5400																				
1	Engine oil	Change	◎	○		○		○		○		○		○		○	every 100 Hr	71		
2	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	77		
3	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	75		
		Replace							○								every 400 Hr	82		@
4	Front axle case oil	Change	◎											○			every 600 Hr	85		
M6800·M8200·M9000																				
1	Engine oil	Change	◎			○				○				○			every 200 Hr	77		
2	Engine oil filter	Replace	◎							○							every 400 Hr	82		
3	Fuel filter	Replace								○							every 400 Hr	82		@
4	Water separator	Clean	◎							○							every 400 Hr	83		
5	Front differential case oil	Change	◎											○			every 600 Hr	86		
6	Front axle gear case oil	Change	◎											○			every 600 Hr	86		

IMPORTANT

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

M4700, M5400, M6800, M8200, M9000

No.	Items		Period	Indication on hour meter														Since then	Reference page		
				50	100	150	200	250	300	350	400	450	500	550	600	650	700				
COMMON ITEMS																					
1	Engine start system		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	70		
2	Wheel bolt torque		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	71		
3	Battery condition		Check		○		○		○		○		○		○		○	every 100 Hr	73		
4	Greasing				○		○		○		○		○		○		○	every 100 Hr	72		
5	Fan belt		Adjust		○		○		○		○		○		○		○	every 100 Hr	75		
6	Clutch		Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	76		
7	Brake		Adjust		○		○		○		○		○		○		○	every 100 Hr	76		
8	Air cleaner element 【Double type】	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	74	*1	@
			Replace															every 1 year	88	*2	
		Secondary element	Replace															every 1 year	88		
9	Radiator hose and clamp		Check				○				○				○			every 200 Hr	78		
			Replace															every 2 years	89		
10	Power steering oil line		Check				○				○				○			every 200 Hr	79		
			Replace															every 2 years	89		
11	Fuel line		Check				○				○				○			every 200 Hr	79		@
			Replace															every 2 years	89		
12	Toe-in		Adjust				○				○				○			every 200 Hr	79		
13	Intake air line		Check															every 200 Hr	78		@
			Replace															every 2 years	89	*4	
14	Greasing (2WD front wheel hub)										○							every 400 Hr	83		
15	Hydraulic oil filter		Replace	◎					○						○			every 300 Hr	80	*5	
16	Transmission fluid		Change	◎											○			every 600 Hr	84		
17	Front axle pivot		Adjust												○			every 600 Hr	87		
18	Engine valve clearance		Adjust															every 800 Hr	88	*3	
19	Fuel injection nozzle injection pressure		Check															every 1500 Hr	88	*3	@
20	Injection pump		Check															every 3000 Hr	88	*3	@
21	Cooling system		Flush															every 2 years	88		
22	Coolant		Change															every 2 years	88		
23	Fuel system		Bleed															Service as required	90		
24	Clutch housing water		Drain																91		
25	Fuse		Replace																92		
26	Light bulb		Replace																92		

IMPORTANT

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 After 6 times of cleaning.
- *3 Consult your local KUBOTA Dealer for this service.
- *4 Replace only if necessary.
- *5 Hydraulic oil filter should be changed more often in severe conditions.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities					Lubricants						
		M4700	M5400	M6800	M8200	M9000							
1	Fuel	65 L (17.2 U.S.gals.)			90 L (23.8 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below −10°C (14°F)						
2	Coolant	6.2 L (6.6 U.S.qts.)	8.0 L (8.5 U.S.qts.)	8.5 L (9.0 U.S.qts.)	9.0 L (9.5 U.S.qts.)		Fresh clean water with anti-freeze						
3	Engine crankcase	8 L (8.5 U.S.qts.)		10.7 L (11.3 U.S.qts.)			<div>● Engine oil: [M4700·M5400·M6800] API Service Classification CC or CD [M8200·M9000] API Service Classification CD</div> <table><tr><td>Above 25°C (77°F)</td><td>SAE30, SAE10W-30 or 10W-40</td></tr><tr><td>0 to 25°C (32 to 77°F)</td><td>SAE20, SAE10W-30 or 10W-40</td></tr><tr><td>Below 0°C (32°F)</td><td>SAE10W, SAE10W-30 or 10W-40</td></tr></table>	Above 25°C (77°F)	SAE30, SAE10W-30 or 10W-40	0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 10W-40	Below 0°C (32°F)	SAE10W, SAE10W-30 or 10W-40
Above 25°C (77°F)	SAE30, SAE10W-30 or 10W-40												
0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 10W-40												
Below 0°C (32°F)	SAE10W, SAE10W-30 or 10W-40												
4	Transmission case	40 L (42.3 U.S.qts.)			52 L (54.9 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid*						
5	Front axle case [4WD]	8.0 L (8.5 U.S.qts.)		—			● KUBOTA UDT or SUPER UDT fluid or SAE 80 · SAE 90 gear oil						
6	Front differential case oil [4WD]	—		5.0 L (5.3 U.S.qts.)		6.0 L (6.3 U.S.qts.)							
7	Front axle gear case oil [4WD]	—		3.5 L (3.7 U.S.qts.)									
8	Greasing	No. of greasing points					Capacity	Type of grease					
	Front wheel hub [2WD]	2					Until grease overflows.	Multipurpose type grease					
	Knuckle shaft [2WD]	2											
	Front wheel case support [4WD]	2											
	Front axle support	2											
	Top link	2											
	Top link bracket	2											
	Lift rod	1	3										
	Battery terminal	2					moderate amount						

NOTE: * KUBOTA UDT or SUPER UDT fluid...KUBOTA original transmission hydraulic fluid

NOTE:

- **Engine Oil:**
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- **Transmission oil:**
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE M5040, M6040, M7040 CAB

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	72			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	73			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	73	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	78			
5	Fan / Air-conditioner belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	76			
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	76			
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	77			
8	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	77			
9	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	75	*1	◎
		Replace															every 1 year	90	*2		
		Secondary element	Replace															every 1 year	90		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	78		◎	
		Replace															every 2 years	92	*4		
11	Toe-in	Check				○				○				○			every 200 Hr	81			
12	Fuel tank water	Drain				○				○				○			every 200 Hr	82			
13	Power steering oil line	Check				○				○				○			every 200 Hr	81			
		Replace															every 2 years	92	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	80			
		Replace															every 2 years	92			
15	Intake air line	Check				○				○				○			every 200 Hr	81		◎	
		Replace															every 2 years	92	*3		
16	Engine oil	Change	◎					○						○			every 300 Hr	86			

M5040, M6040, M7040 CAB

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Hydraulic oil filter	Replace	⊙					○						○			every 300 Hr	85	
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	87	
19	Water separator	Clean								○							every 400 Hr	87	
20	Fuel filter	Replace								○							every 400 Hr	86	@
21	Engine oil filter	Replace	⊙											○			every 600 Hr	88	
22	Transmission fluid	Change	⊙											○			every 600 Hr	88	
23	Front differential case oil	Change	⊙											○			every 600 Hr	89	
24	Front axle gear case oil	Change	⊙											○			every 600 Hr	89	
25	Front axle pivot	Adjust												○			every 600 Hr	90	
26	Engine valve clearance	Adjust															every 800 Hr	90	*4
27	Fuel injection nozzle injection pressure	Check															every 1500 Hr	90	*4 @
28	Injection pump	Check															every 3000 Hr	90	*4 @
29	Cooling system	Flush															every 2 years	91	
30	Coolant	Change															every 2 years	91	
31	Lift cylinder hose	Replace															every 2 years	92	*4
32	Fuel system	Bleed															Service as required	93	
33	Clutch housing water	Drain															Service as required	93	
34	Fuse	Replace															Service as required	94	
35	Light bulb	Replace															Service as required	96	

M5040, M6040, M7040 CAB

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Fan / Air conditioner drive belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	76		
2	Inner air filter	Clean				○				○				○			every 200 Hr	83		
3	Fresh air filter	Clean				○				○				○			every 200 Hr	83		
4	Air conditioner condenser	Clean				○				○				○			every 200 Hr	84		
5	Air conditioner pipes and hoses	Check															every 1 year	90		
		Replace															every 2 years	92		
6	CAB isolation cushion	Check															every 1 year	90		
7	Washer liquid	Add															Service as required	97		
8	Refrigerant (gas)	Check															Service as required	98		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

M5040, M6040, M7040 CAB

No.	Locations	Capacities	Lubricants	
1	Fuel	90 L (23.8 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)	Automobile washer liquid	
4	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	<ul style="list-style-type: none"> Engine oil: API Service Classification CD, CE or CF 	
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	56 L (59.2 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA UDT or SUPER UDT fluid* 	
6	Front differential case oil [4WD]	5.5 L (5.8 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil 	
7	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)		
8	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2		
	Lift rod	2		
	Hydraulic lift cylinder pin	4		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Steering joint shaft	1		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5040, M6040, M7040 CAB

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE M5040, M6040, M7040 Narrow

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	64			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	65			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	66	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	70			
5	Fan belt [M6040, M7040]	Adjust		○		○		○		○		○		○		○	every 100 Hr	68			
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	69			
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	69			
8	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	67	*1	@
		Replace															every 1 year	79	*2		
		Secondary element	Replace															every 1 year	79		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	70		@	
		Replace															every 2 years	82	*4		
10	Toe-in	Check				○				○				○			every 200 Hr	73			
11	Fuel tank water	Drain				○				○				○			every 200 Hr	73			
12	Power steering oil line	Check				○				○				○			every 200 Hr	73			
		Replace															every 2 years	82	*4		
13	Radiator hose and clamp	Check				○				○				○			every 200 Hr	71			
		Replace															every 2 years	82			
14	Intake air line	Check				○				○				○			every 200 Hr	72		@	
		Replace															every 2 years	82	*3		
15	Engine oil	Change	◎					○						○			every 300 Hr	75			
16	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	74			
17	Water separator	Clean								○							every 400 Hr	76			

M5040, M6040, M7040 Narrow

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Fuel filter	Replace								○							every 400 Hr	76		Ⓢ
19	Engine oil filter	Replace	◎											○			every 600 Hr	77		
20	Transmission fluid	Change	◎											○			every 600 Hr	77		
21	Front differential case oil	Change	◎											○			every 600 Hr	78		
22	Front axle gear case oil	Change	◎											○			every 600 Hr	78		
23	Front axle pivot	Adjust												○			every 600 Hr	79		
24	Engine valve clearance	Adjust															every 800 Hr	79	*4	
25	Fuel injection nozzle injection pressure	Check															every 1500 Hr	79	*4	Ⓢ
26	Turbo charger [M8540]	Check															every 3000 Hr	79	*4	Ⓢ
27	Injection pump	Check															every 3000 Hr	79	*4	Ⓢ
28	Intake air heater [M8540]	Check															every 3000 Hr	79	*4	
29	Lift cylinder hose	Replace															every 2 years	82	*4	
30	Cooling system	Flush															every 2 years	80		
31	Coolant	Change															every 2 years	80		
32	Fuel system	Bleed															Service as required	82		
33	Clutch housing water	Drain															Service as required	83		
34	Fuse	Replace															Service as required	84		
35	Light bulb	Replace															Service as required	84		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		M6040N, M7040N	M8540N		
1	Fuel	60 L (15.9 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.)	9 L (9.5 U.S.qts.)	Fresh clean water with anti-freeze	
		(Recovery tank: 1.0 L (1.1 U.S.qts.))			
3	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	10.7 L (11.3 U.S.qts.)	• Engine oil: API Service Classification CD, CE or CF	
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	52 L (54.9 U.S.qts.)		• KUBOTA UDT or SUPER UDT fluid*	
5	Front differential case oil	5.0 L (5.3 U.S.qts.)		• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil	3.0 L (3.2 U.S.qts.)			
7	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support	2			
	Front axle support	2			
	Battery terminal	2		A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5040, M6040, M7040 Narrow

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.
- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE M5040, M6040, M7040 ROPS

SERVICE INTERVALS

No.	Items		Indication on hour meter													Interval	Ref. page				
			50	100	150	200	250	300	350	400	450	500	550	600	650					700	
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	64			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	65			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	65	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	70			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	68			
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	68			
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	69			
8	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	69			
9	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	67	*1	◎
			Replace														every 1 year	80	*2		
		Secondary element	Replace														every 1 year	80			
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	70		◎	
			Replace														every 2 years	82	*4		
11	Toe-in	Check				○				○				○			every 200 Hr	73			
12	Fuel tank water	Drain				○				○				○			every 200 Hr	74			
13	Power steering oil line	Check				○				○				○			every 200 Hr	73			
			Replace														every 2 years	82	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	72			
			Replace														every 2 years	82			
15	Intake air line	Check				○				○				○			every 200 Hr	73		◎	
			Replace														every 2 years	82	*3		
16	Engine oil	Change	◎					○						○			every 300 Hr	76			
17	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	75			

M5040, M6040, M7040 ROPS

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	77	
19	Water separator	Clean								○							every 400 Hr	77	
20	Fuel filter	Replace								○							every 400 Hr	76	@
21	Engine oil filter	Replace	◎											○			every 600 Hr	78	
22	Transmission fluid	Change	◎											○			every 600 Hr	78	
23	Front differential case oil	Change	◎											○			every 600 Hr	79	
24	Front axle gear case oil	Change	◎											○			every 600 Hr	79	
25	Front axle pivot	Adjust												○			every 600 Hr	80	
26	Engine valve clearance	Adjust															every 800 Hr	80	*4
27	Fuel injection nozzle injection pressure	Check															every 1500 Hr	80	*4 @
28	Injection pump	Check															every 3000 Hr	80	*4 @
29	Cooling system	Flush															every 2 years	81	
30	Coolant	Change															every 2 years	81	
31	Lift cylinder hose	Replace															every 2 years	82	*4
32	Fuel system	Bleed															Service as required	83	
33	Clutch housing water	Drain															Service as required	83	
34	Fuse	Replace															Service as required	84	
35	Light bulb	Replace															Service as required	84	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS M5040, M6040, M7040 ROPS

No.	Locations	Capacities	Lubricants	
1	Fuel	70 L (18.5 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean water with anti-freeze	
3	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	• Engine oil: API Service Classification CD, CE or CF	
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	56 L (59.2 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front differential case oil [4WD]	5.5 L (5.8 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)		
7	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2		
	Lift rod	2		
	Hydraulic lift cylinder pin	4		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5040, M6040, M7040 ROPS

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M5140-CAB

SERVICE INTERVALS

No.	Items		Indication on hour meter													Interval	Ref. page				
			50	100	150	200	250	300	350	400	450	500	550	600	650					700	
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	67			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	68			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	71	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	68			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	70			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	71			
7	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	71			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	69	*1	@
		Replace															every 1 year	81	*2		
		Secondary element	Replace															every 1 year	81		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	70		@	
		Replace															every 2 years	83	*4		
10	Engine oil	Change	◎			○				○				○			every 200 Hr	73			
11	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	73			
12	Toe-in	Adjust				○				○				○			every 200 Hr	75			
13	Fuel tank water	Drain				○				○				○			every 200 Hr	76			
14	Power steering oil line	Check				○				○				○			every 200 Hr	75			
		Replace															every 2 years	83	*4		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	74			
		Replace															every 2 years	83			
16	Intake air line	Check				○				○				○			every 200 Hr	75		@	
		Replace															every 2 years	83	*3		

M5140-CAB

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
17	Hydraulic oil filter	Replace	☉					○						○			every 300 Hr	78		
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	79		
19	Water separator	Clean								○							every 400 Hr	79		
20	Fuel filter	Replace								○							every 400 Hr	79		@
21	Transmission fluid	Change	☉											○			every 600 Hr	80		
22	Front differential case oil	Change												○			every 600 Hr	80		
23	Front axle gear case oil	Change												○			every 600 Hr	80		
24	Front axle pivot	Adjust												○			every 600 Hr	81		
25	Engine valve clearance	Adjust															every 800 Hr	81	*4	
26	Fuel injection nozzle injection pressure	Check															every 1500 Hr	81	*4	@
27	Turbo charger	Check															every 3000 Hr	81	*4	@
28	Injection pump	Check															every 3000 Hr	81	*4	@
29	Cooling system	Flush															every 2 years	82		
30	Coolant	Change															every 2 years	82		
31	Lift cylinder hose	Replace															every 2 years	83	*4	
32	Fuel system	Bleed															Service as required	84		
33	Clutch housing water	Drain															Service as required	85		
34	Fuse	Replace															Service as required	85		
35	Light bulb	Replace															Service as required	86		

M5140-CAB

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Air conditioner drive belt	Adjust				○				○				○		○	every 200 Hr	77		
2	Inner air filter	Clean				○				○				○			every 200 Hr	76		
3	Fresh air filter	Clean				○				○				○			every 200 Hr	76		
4	Air conditioner condenser	Clean				○				○				○			every 200 Hr	77		
5	Air conditioner pipes and hoses	Check															every 1 year	81		
		Replace															every 2 years	83		
6	CAB isolation cushion	Check															every 1 year	81		
7	Washer liquid	Add															Service as required	87		
8	Refrigerant (gas)	Check															Service as required	87		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

M5140-CAB

No.	Locations	Capacities	Lubricants	
1	Fuel	90 L (23.8 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean soft water with anti-freeze	
3	Washer liquid	2.0 L (2.1 U.S.qts.)	Automobile washer liquid	
4	Engine crankcase (with filter)	7.2 L (7.6 U.S.qts.)	• Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	56 L (59.2 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
6	Front differential case oil [4WD]	6.6 L (7.0 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
7	Front axle gear case oil [4WD]	3 L (3.2 U.S.qts.)		
8	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2		
	Lift rod	2		
	Hydraulic lift cylinder pin	4		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Steering joint shaft	1		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5140-CAB

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M5140-ROPS

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	58			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	59			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	62	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	59			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	61			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	62			
7	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	62			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	60	*1	@
		Replace															every 1 year	71	*2		
		Secondary element	Replace															every 1 year	71		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	61		@	
		Replace															every 2 years	72	*4		
10	Engine oil	Change	◎			○				○				○			every 200 Hr	64			
11	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	64			
12	Toe-in	Adjust				○				○				○			every 200 Hr	66			
13	Fuel tank water	Drain				○				○				○			every 200 Hr	67			
14	Power steering oil line	Check				○				○				○			every 200 Hr	66			
		Replace															every 2 years	72	*4		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	65			
		Replace															every 2 years	72			
16	Intake air line	Check				○				○				○			every 200 Hr	66		@	
		Replace															every 2 years	72	*3		
17	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	67			

M5140-ROPS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	69		
19	Water separator	Clean								○							every 400 Hr	68		
20	Fuel filter	Replace								○							every 400 Hr	68		@
21	Transmission fluid	Change	◎											○			every 600 Hr	69		
22	Front differential case oil	Change												○			every 600 Hr	70		
23	Front axle gear case oil	Change												○			every 600 Hr	70		
24	Front axle pivot	Adjust												○			every 600 Hr	70		
25	Engine valve clearance	Adjust															every 800 Hr	71	*4	
26	Fuel injection nozzle injection pressure	Check															every 1500 Hr	71	*4	@
27	Turbo charger	Check															every 3000 Hr	71	*4	@
28	Injection pump	Check															every 3000 Hr	71	*4	@
29	Cooling system	Flush															every 2 years	71		
30	Coolant	Change															every 2 years	71		
31	Lift cylinder hose	Replace															every 2 years	72	*4	
32	Fuel system	Bleed															Service as required	73		
33	Clutch housing water	Drain															Service as required	74		
34	Fuse	Replace															Service as required	74		
35	Light bulb	Replace															Service as required	75		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

M5140-ROPS

No.	Locations	Capacities	Lubricants	
1	Fuel	70 L (18.5 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	7.2 L (7.6 U.S.qts.)	• Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	56 L (59.2 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front differential case oil [4WD]	6.6 L (7.0 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil [4WD]	3 L (3.2 U.S.qts.)		
7	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2		
	Lift rod	2		
	Hydraulic lift cylinder pin	4		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5140-ROPS

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M5640SU, SUD

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53		
2	Wheel bolt torque		Check	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	54		
3	Battery condition		Check		○		○		○		○		○		○		every 100 Hr	58	*5	
4	Greasing		---		○		○		○		○		○		○		every 100 Hr	54		
5	Fan belt		Adjust		○		○		○		○		○		○		every 100 Hr	57		
6	Brake Pedal		Adjust		○		○		○		○		○		○		every 100 Hr	58		
7	Clutch pedal		Adjust	◎	○		○		○		○		○		○		every 100 Hr	57		
8	Fuel filter		Clean		○		○		○		○		○		○		every 100 Hr	56		◎
			Replace							○							every 400 Hr	63		
9	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		every 100 Hr	56	*1	◎
			Replace													every 1 year	64	*2		
		Secondary element	Replace														every 1 year	64		
10	Fuel line		Check		○		○		○		○		○		○		every 100 Hr	57		◎
			Replace														every 2 years	66	*4	
11	Toe-in		Adjust				○			○			○				every 200 Hr	60		
12	Power steering oil line		Check				○			○			○				every 200 Hr	60		
			Replace														every 2 years	66	*4	
13	Radiator hose and clamp		Check				○			○			○				every 200 Hr	59		
			Replace														every 2 years	66		
14	Intake air line		Check				○			○			○				every 200 Hr	60		◎
			Replace														every 2 years	66	*3	
15	Hydraulic oil filter		Replace	◎					○				○				every 300 Hr	61		
16	Engine oil		Change	◎						○							every 400 Hr	62		

M5640SU, SUD

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
17	Greasing (2WD front wheel hub)	---								○							every 400 Hr	63		
18	Engine oil filter	Replace	◎							○							every 400 Hr	63		
19	Transmission fluid	Change	◎											○			every 600 Hr	63		
20	Front axle case oil	Change												○			every 600 Hr	64		
21	Front axle pivot	Adjust												○			every 600 Hr	64		
22	Engine valve clearance	Adjust															every 800 Hr	64	*4	
23	Fuel injection nozzle injection pressure	Check															every 1500 Hr	64	*4	@
24	Turbo charger	Check															every 3000 Hr	64	*4	@
25	Injection pump	Check															every 3000 Hr	64	*4	@
26	Cooling system	Flush															every 2 years	65		
27	Coolant	Change															every 2 years	65		
28	Fuel system	Bleed															Service as required	66		
29	Clutch housing water	Drain															Service as required	67		
30	Fuse	Replace															Service as required	67		
31	Light bulb	Replace															Service as required	68		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

M5640SU, SUD

No.	Locations	Capacities	Lubricants	
1	Fuel	57 L (15.1 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean water with anti-freeze	
3	Engine crankcase (with filter)	7.2 L (7.6 U.S.qts.)	• Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	40 L (42.3 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case [4WD]	8.0 L (8.5 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	1		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M5640SU, SUD

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	85		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	86		
3	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	86	*4	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	91	*5	
5	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	87		
6	Fan/Air conditioner belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	88		
7	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	89		
8	Brake Pedal [F8/R8 model]	Adjust		○		○		○		○		○		○		○	every 100 Hr	90		
	Brake Pedal [F12/R12 model]	Adjust		○		○		○		○		○		○		○	every 100 Hr	90		
9	Air cleaner element	Primary element	Clean	○		○		○		○		○		○		○	every 100 Hr	88	*1	
		Replace															every 1 year	102	*2	
		Secondary element	Replace														every 1 year	102		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	89		
		Replace															every 2 years	104	*4	
11	Parking brake [F12/R12 model]	Check		○		○		○		○		○		○		○	every 100 Hr	91		
12	Toe-in	Adjust				○				○				○			every 200 Hr	94		
13	Fuel tank water	Drain				○				○				○			every 200 Hr	95		
14	Power steering oil line	Check				○				○				○			every 200 Hr	93		
		Replace															every 2 years	103	*4	
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	93		
		Replace															every 2 years	103		
16	Intake air line	Check				○				○				○			every 200 Hr	93		
		Replace															every 2 years	104	*3 *4	

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
17	Hydraulic oil filter	Replace	☉					○						○			every 300 Hr	96		
18	Engine oil	Change	☉							○							every 400 Hr	97		
19	Engine oil filter	Replace	☉							○							every 400 Hr	98		
20	Fuel filter	Replace								○							every 400 Hr	98		
21	Greasing (2WD front wheel hub)	---								○							every 400 Hr	99		
22	Water separator	Clean								○							every 400 Hr	99		
23	Transmission fluid	Change	☉											○			every 600 Hr	99		
24	Front differential case oil	Change												○			every 600 Hr	100		
25	Front axle gear case oil	Change												○			every 600 Hr	100		
26	Front axle pivot	Adjust												○			every 600 Hr	101		
27	Engine valve clearance	Adjust															every 800 Hr	101	*4	
28	Fuel injector nozzle tip	Check															every 1500 Hr	101	*4	@
29	Oil separator element	Replace															every 1500 Hr	101		@
30	EGR cooler	Check Clean															every 1500 Hr	101	*4	@
31	EGR system	Check Clean															every 3000 Hr	101	*4	@
32	Turbo charger	Check															every 3000 Hr	101	*4	@
33	Supply pump	Check															every 3000 Hr	101	*4	
34	DPF muffler	Clean															every 3000 Hr	102	*4	@
35	Exhaust manifold	Check															every 1 year	102	*4	
36	DPF differential pressure sensor pipe	Check															every 1 year	102	*4	
37	Cooling system	Flush															every 2 years	102		
38	Coolant	Change															every 2 years	103		

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
39	PCV (Positive Crankcase Ventilation) valve hose	Replace															every 2 years	104	*4		
40	DPF differential pressure sensor hose	Replace																104	*4		
41	Boost sensor hose	Replace																104			
42	Master cylinder filter [F12/R12 model]	Clean																103	*4		
43	Master cylinder kit [F12/R12 model]	Replace																104	*4		
44	Equalizer kit [F12/R12 model]	Replace																104	*4		
45	Brake seal 1 and 2 [F12/R12 model]	Replace																104	*4		
46	Lift cylinder hose	Replace																104	*4		
47	Fuel system	Bleed															Service as required	104			
48	Brake system [F12/R12 model]	Bleed																105	*4		
49	Clutch housing water	Drain																105			
50	Fuse	Replace																105			
51	Light bulb	Replace																107			

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
1	Inner air filter	Clean				○				○				○			every 200 Hr	95		
2	Fresh air filter	Clean				○				○				○				95		
3	Air conditioner condenser	Clean				○				○				○				96		
4	Air conditioner pipes and hoses	Check															every 1 year	102		
		Replace															every 2 years	104	*4	
5	CAB isolation cushion	Check															every 1 year	102		
6	Washer liquid	Add															Service as required	108		
7	Refrigerant (gas)	Check																108		

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		M6060	M7060		
1	Fuel	90 L (23.8 U.S.gals.)		No.2-D S15 diesel fuel No.1-D S15 diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
3	Engine crankcase (with filter)	12 L (12.7 U.S.qts.)		● Engine oil: API Service Classification	CJ-4 [DPF type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				-10 to 25 °C (14 to 77 °F)	SAE10W-30 or 15W-40
				Below -10 °C (14 °F)	SAE10W-30
4	Transmission case	56 L (59.2 U.S.qts.)		● KUBOTA SUPER UDT2 fluid*	
5	Front differential case oil [4WD]	5.5 L (5.8 U.S.qts.)		● KUBOTA SUPER UDT2 fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
7	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	2			
	Knuckle shaft [2WD]	2			
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class for engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ **Fuel:**

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	75		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	76		
3	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	76	*4	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	81	*5	
5	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	76		
6	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	78		
7	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	78		
8	Brake Pedal [F8/R8 model]	Adjust		○		○		○		○		○		○		○	every 100 Hr	79		
	Brake Pedal [F12/R12 model]	Adjust		○		○		○		○		○		○		○	every 100 Hr	80		
9	Air cleaner element	Primary element	Clean	○		○		○		○		○		○		○	every 100 Hr	77	*1	
		Replace															every 1 year	89	*2	
		Secondary element	Replace														every 1 year	89		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	79		
		Replace															every 2 years	91	*4	
11	Parking brake [F12/R12 model]	Check		○		○		○		○		○		○		○	every 100 Hr	80		
12	Toe-in	Adjust				○				○				○			every 200 Hr	83		
13	Fuel tank water	Drain				○				○				○			every 200 Hr	84		
14	Power steering oil line	Check				○				○				○			every 200 Hr	83		
		Replace															every 2 years	91	*4	
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	82		
		Replace															every 2 years	91		
16	Intake air line	Check				○				○				○			every 200 Hr	83		
		Replace															every 2 years	91	*3 *4	

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Hydraulic oil filter	Replace	⊙					○						○			every 300 Hr	84	
18	Engine oil	Change	⊙							○							every 400 Hr	85	
19	Engine oil filter	Replace	⊙							○							every 400 Hr	85	
20	Fuel filter	Replace								○							every 400 Hr	86	
21	Water separator	Clean								○							every 400 Hr	86	
22	Transmission fluid	Change	⊙											○			every 600 Hr	87	
23	Front differential case oil	Change												○			every 600 Hr	87	
24	Front axle gear case oil	Change												○			every 600 Hr	87	
25	Front axle pivot	Adjust												○			every 600 Hr	88	
26	Engine valve clearance	Adjust															every 800 Hr	88	*4
27	Fuel injector nozzle tip	Clean															every 1500 Hr	88	*4 @
28	Oil separator element	Replace															every 1500 Hr	88	@
29	EGR cooler	Check Clean															every 1500 Hr	89	*4 @
30	EGR system	Check Clean															every 3000 Hr	89	*4 @
31	Turbo charger	Check															every 3000 Hr	89	*4 @
32	Supply pump	Check															every 3000 Hr	89	*4
33	DPF muffler	Clean															every 3000 Hr	89	*4 @
34	Exhaust manifold	Check															every 1 year	89	*4
35	DPF differential pressure sensor pipe	Check															every 1 year	89	*4
36	EGR pipe	Check															every 1 year	89	*4
37	Cooling system	Flush															every 2 years	89	
38	Coolant	Change															every 2 years	90	
39	PCV (Positive Crankcase Ventilation) valve hose	Replace															every 2 years	91	*4
40	DPF differential pressure sensor hose	Replace															every 2 years	91	*4
41	Boost sensor hose	Replace															every 2 years	91	*4

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
42	Master cylinder filter [F12/R12 model]	Clean															every 2 years	91	*4	
43	Master cylinder kit [F12/R12 model]	Replace															every 2 years	91	*4	
44	Equalizer kit [F12/R12 model]	Replace															every 2 years	91	*4	
45	Brake seal 1 and 2 [F12/R12 model]	Replace															every 2 years	91	*4	
46	Lift cylinder hose	Replace															every 2 years	91	*4	
47	Fuel system	Bleed															Service as required	92		
48	Brake system [F12/R12 model]	Bleed																92	*4	
49	Clutch housing water	Drain																92		
50	Fuse	Replace																92		
51	Light bulb	Replace																94		

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		M6060	M7060		
1	Fuel	70 L (18.5 U.S.gals.)		No.2-D S15 diesel fuel No.1-D S15 diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	12 L (12.7 U.S.qts.)		● Engine oil: API Service Classification	CJ-4 [DPF type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				-10 °C to 25 °C (14 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below -10 °C (14 °F)	SAE10W-30
4	Transmission case	56 L (59.2 U.S.qts.)		● KUBOTA SUPER UDT2 fluid*	
5	Front differential case oil	5.5 L (5.8 U.S.qts.)		● KUBOTA SUPER UDT2 fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil	3.5 L (3.7 U.S.qts.)			
7	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support	2			
	Front axle support	2			
	Battery terminal	2		A small amount	

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class for engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ **Fuel:**

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE M7040, M8540-Narrow CAB

SERVICE INTERVALS

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	73		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	74		
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	78	*5	
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	74		
5	Fan / Air-conditioner belt [M7040]	Adjust		○		○		○		○		○		○		○	every 100 Hr	76		
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	77		
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	78		
8	Air cleaner element Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	75	*1	@
		Replace															every 1 year	91	*2	
	Secondary element	Replace															every 1 year	91		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	77		@
		Replace															every 2 years	94	*4	
10	Toe-in	Adjust				○				○				○			every 200 Hr	82		
11	Fuel tank water	Drain				○				○				○			every 200 Hr	82		
12	Power steering oil line	Check				○				○				○			every 200 Hr	81		
		Replace															every 2 years	94	*4	
13	Radiator hose and clamp	Check				○				○				○			every 200 Hr	80		
		Replace															every 2 years	94		
14	Intake air line	Check				○				○				○			every 200 Hr	81		@
		Replace															every 2 years	94	*3	
15	Engine oil	Change	◎					○						○			every 300 Hr	85		
16	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	86		
17	Water separator	Clean								○							every 400 Hr	88		

M7040, M8540-Narrow CAB

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Fuel filter	Replace								○							every 400 Hr	87		@
19	Engine oil filter	Replace	◎											○			every 600 Hr	88		
20	Transmission fluid	Change	◎											○			every 600 Hr	89		
21	Front differential case oil	Change	◎											○			every 600 Hr	90		
22	Front axle gear case oil	Change	◎											○			every 600 Hr	90		
23	Front axle pivot	Adjust												○			every 600 Hr	90		
24	Engine valve clearance	Adjust															every 800 Hr	91	*4	
25	Fuel injection nozzle injection pressure	Check															every 1500 Hr	91	*4	@
26	Turbo charger	Check															every 3000 Hr	91	*4	@
27	Injection pump	Check															every 3000 Hr	91	*4	@
28	Intake air heater [M8540]	Check															every 3000 Hr	91	*4	
29	Lift cylinder hose	Replace															every 2 years	94	*4	
30	Cooling system	Flush															every 2 years	91		
31	Coolant	Change															every 2 years	91		
32	Fuel system	Bleed															Service as required	94		
33	Clutch housing water	Drain															Service as required	95		
34	Fuse	Replace															Service as required	95		
35	Light bulb	Replace															Service as required	97		

M7040, M8540-Narrow CAB

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	83		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	83		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	84		
4	Air-conditioner drive belt [M8540]	Adjust				○				○				○			every 200 Hr	85		
5	Air conditioner pipes and hoses	Check															every 1 year	91		
		Replace															every 2 years	94		
6	CAB isolation cushion	Check															every 1 year	91		
7	Washer liquid	Add															Service as required	98		
8	Refrigerant (gas)	Check															Service as required	99		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		M7040N	M8540N		
1	Fuel	76 L (20.1 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10℃ (14 ℉)	
2	Coolant	8 L (8.5 U.S.qts.)	9 L (9.5 U.S.qts.)	Fresh clean water with anti-freeze	
		(Recovery tank: 1.0 L (1.1 U.S.qts.))			
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
4	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	10.7 L (11.3 U.S.qts.)	● Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
				Above 25℃ (77 ℉)	SAE30, SAE10W-30 or 15W-40
				0 to 25℃ (32 to 77 ℉)	SAE20, SAE10W-30 or 15W-40
				Below 0℃ (32 ℉)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	52 L (54.9 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid*	
6	Front differential case oil	5.0 L (5.3 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
7	Front axle gear case oil	3.0 L (3.2 U.S.qts.)			
8	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support	2			
	Front axle support	2			
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M7040, M8540-Narrow CAB

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M7040-SU, SUD

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	53			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	57	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	54			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	55			
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	56			
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	57			
8	Clutch pedal	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	56			
9	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	55	*1	◎
		Replace															every 1 year	65	*2		
		Secondary element	Replace															every 1 year	65		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	56		◎	
		Replace															every 2 years	67	*4		
11	Toe-in	Adjust				○				○				○			every 200 Hr	60			
12	Fuel tank water	Drain				○				○				○			every 200 Hr	61			
13	Power steering oil line	Check				○				○				○			every 200 Hr	59			
		Replace															every 2 years	67	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	59			
		Replace															every 2 years	67			
15	Intake air line	Check				○				○				○			every 200 Hr	59		◎	
		Replace															every 2 years	67	*3		
16	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	61			
17	Engine oil	Change	◎							○							every 400 Hr	62			

M7040-SU, SUD

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
18	Engine oil filter	Replace	◎							○							every 400 Hr	62	
19	Greasing (2WD front wheel hub)	---								○							every 400 Hr	64	
20	Water separator	Clean								○							every 400 Hr	63	
21	Fuel filter	Replace								○							every 400 Hr	63	@
22	Transmission fluid	Change	◎											○			every 600 Hr	64	
23	Front differential case oil	Change												○			every 600 Hr	64	
24	Front axle gear case oil	Change												○			every 600 Hr	64	
25	Front axle pivot	Adjust												○			every 600 Hr	65	
26	Engine valve clearance	Adjust															every 800 Hr	65	*4
27	Fuel injection nozzle injection pressure	Check															every 1500 Hr	65	*4 @
28	Injection pump	Check															every 3000 Hr	65	*4 @
29	Cooling system	Flush															every 2 years	66	
30	Coolant	Change															every 2 years	66	
31	Fuel system	Bleed															Service as required	67	
32	Fuse	Replace															Service as required	68	
33	Light bulb	Replace															Service as required	69	

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT M7040-SU, SUD

No.	Locations	Capacities	Lubricants	
1	Fuel	70 L (18.5 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean water with anti-freeze	
3	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	• Engine oil: Refer to next page	
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	44 L (46.5 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front differential case [4WD]	6.6 L (7.0 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case [4WD]	3.0 L (3.2 U.S.qts.)		
7	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	1		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M7040-SU, SUD

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○: Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M7040SUH, M7040SUHD

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	54			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	55			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	58	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	55			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	57			
6	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	57			
7	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	58			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	56	*1	@
		Replace															every 1 year	66	*2		
		Secondary element	Replace															every 1 year	66		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	57		@	
		Replace															every 2 years	68	*4		
10	Toe-in	Adjust				○				○				○			every 200 Hr	61			
11	Fuel tank water	Drain				○				○				○			every 200 Hr	62			
12	Power steering oil line	Check				○				○				○			every 200 Hr	60			
		Replace															every 2 years	68	*4		
13	Radiator hose and clamp	Check				○				○				○			every 200 Hr	60			
		Replace															every 2 years	68			
14	Intake air line	Check				○				○				○			every 200 Hr	60		@	
		Replace															every 2 years	68	*3		
15	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	62			
16	Engine oil	Change	◎							○							every 400 Hr	63			
17	Engine oil filter	Replace	◎							○							every 400 Hr	63			

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	65		
19	Water separator	Clean								○							every 400 Hr	64		
20	Fuel filter	Replace								○							every 400 Hr	64		@
21	Transmission fluid	Change	◎											○			every 600 Hr	65		
22	Front differential case oil	Change												○			every 600 Hr	65		
23	Front axle gear case oil	Change												○			every 600 Hr	65		
24	Front axle pivot	Adjust												○			every 600 Hr	66		
25	Engine valve clearance	Adjust															every 800 Hr	66	*4	
26	Fuel injection nozzle injection pressure	Check															every 1500 Hr	66	*4	@
27	Turbo charger check	Check															every 3000 Hr	66	*4	@
28	Injection pump	Check															every 3000 Hr	66	*4	@
29	Cooling system	Flush															every 2 years	67		
30	Coolant	Change															every 2 years	67		
31	Fuel system	Bleed															Service as required	69		
32	Clutch housing water	Drain															Service as required	69		
33	Fuse	Replace															Service as required	69		
34	Light bulb	Replace															Service as required	70		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lubricants	
1	Fuel	70 L (18.5 U.S.gals.)	No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	8 L (8.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))	Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	11 L (11.6 U.S.qts.)	• Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
			Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	48 L (50.7 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
5	Front differential case [4WD]	6.6 L (7.0 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case [4WD]	3.0 L (3.2 U.S.qts.)		
7	Greasing	No. of greasing points	Capacity	Type of grease
	Top link	2	Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Lift rod	1		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Front wheel hub [2WD]	2		
	Knuckle shaft [2WD]	2		
	Battery terminal	2	A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

For North American market

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel.

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M8540, M9540

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	74			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	75			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	76	*5		
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	81			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	78			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	79			
7	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	79			
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	78	*1	@
		Replace															every 1 year	92	*2		
		Secondary element	Replace															every 1 year	92		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	80		@	
		Replace															every 2 years	95	*4		
10	Parking brake	Check		○		○		○		○		○		○		○	every 100 Hr	80			
11	Toe-in	Adjust				○				○				○			every 200 Hr	83			
12	Fuel tank water	Drain				○				○				○			every 200 Hr	84			
13	Power steering oil line	Check				○				○				○			every 200 Hr	83			
		Replace															every 2 years	95	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	82			
		Replace															every 2 years	95			
15	Intake air line	Check				○				○				○			every 200 Hr	83		@	
		Replace															every 2 years	95	*3		
16	Engine oil	Change	◎					○						○			every 300 Hr	88			

M8540, M9540

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Hydraulic oil filter	Replace	⊙					○						○			every 300 Hr	87	
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	89	
19	Water separator	Clean								○							every 400 Hr	89	
20	Fuel filter	Replace								○							every 400 Hr	88	@
21	Engine oil filter	Replace	⊙											○			every 600 Hr	90	
22	Transmission fluid	Change	⊙											○			every 600 Hr	90	
23	Front differential case oil	Change	⊙											○			every 600 Hr	91	
24	Front axle gear case oil	Change	⊙											○			every 600 Hr	92	
25	Front axle pivot	Adjust												○			every 600 Hr	92	
26	Engine valve clearance	Adjust															every 800 Hr	92	*4
27	Fuel injection nozzle injection pressure	Check															every 1500 Hr	92	*4 @
28	Turbo charger	Check															every 3000 Hr	92	*4 @
29	Injection pump	Check															every 3000 Hr	92	*4 @
30	Intake air heater	Check															every 3000 Hr	92	*4
31	Cooling system	Flush															every 2 years	93	
32	Coolant	Change															every 2 years	93	
33	Master cylinder filter	Clean															every 2 years	95	*4
34	Lift cylinder hose	Replace															every 2 years	95	*4
35	Master cylinder kit	Replace															every 2 years	95	*4
36	Equalizer kit	Replace															every 2 years	95	*4
37	Brake seal 1 and 2	Replace															every 2 years	95	*4
38	Fuel system	Bleed															Service as required	95	
39	Brake system	Bleed															Service as required	96	*4
40	Clutch housing water	Drain															Service as required	96	

M8540, M9540

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
41	Fuse	Replace															Service as required	96		
42	Light bulb	Replace															Service as required	98		

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
1	Inner air filter	Clean				○				○				○			every 200 Hr	84		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	85		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	86		
4	Air conditioner drive belt	Adjust				○				○				○			every 200 Hr	86		
5	Air conditioner pipes and hoses	Check															every 1 year	92		
		Replace															every 2 years	95		
6	CAB isolation cushion	Check															every 1 year	92		
7	Washer liquid	Add															Service as required	99		
8	Refrigerant (gas)	Check															Service as required	99		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		M8540	M9540		
1	Fuel	110 L (29.1 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9 L (9.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
4	Engine crankcase (with filter)	10.7 L (11.3 U.S.qts.)		● Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	60 L (63.4 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid*	
6	Front differential case oil [4WD]	6.0 L (6.3 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
7	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
8	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	1		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	2			
	Knuckle shaft [2WD]	2			
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M8540, M9540

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel [$\geq 0.05\%$ (500 ppm)]	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel [$<0.05\%$ (500 ppm)] or Ultra Low Sulfur Fuel [$<0.0015\%$ (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000ft).
- If diesel fuel with sulfur content greater than 0.5% (5000 ppm) sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- NEVER use diesel fuel with sulfur content greater than 0.05% (500 ppm) for EXTERNAL EGR type engine.
- DO NOT use diesel fuel with sulfur content greater than 1.0% (10000 ppm).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M8560, M9960 ROPS

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	77			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	78			
3	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	79			
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	83	*5		
5	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	79			
6	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	81			
7	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	81			
8	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	82			
9	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	80	*1	
		Replace															every 1 year	92	*2		
		Secondary element	Replace															every 1 year	92		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	82		*4	
		Replace															every 2 years	94			
11	Parking brake	Check		○		○		○		○		○		○		○	every 100 Hr	83			
12	Toe-in	Adjust				○				○				○			every 200 Hr	86			
13	Fuel tank water	Drain				○				○				○			every 200 Hr	87			
14	Power steering oil line	Check				○				○				○			every 200 Hr	85		*4	
		Replace															every 2 years	94			
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	84			
		Replace															every 2 years	94			
16	Intake air line	Check				○				○				○			every 200 Hr	85		*3	
		Replace															every 2 years	94			
17	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	87			

No.	Items		Indication on hour meter													Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
18	Engine oil	Change	⊙							○							every 400 Hr	88	
19	Engine oil filter	Replace	⊙							○							every 400 Hr	88	
20	Fuel filter	Replace								○							every 400 Hr	89	
21	Greasing (2WD front wheel hub)	---								○							every 400 Hr	90	
22	Water separator	Clean								○							every 400 Hr	89	
23	Transmission fluid	Change	⊙											○			every 600 Hr	90	
24	Front differential case oil	Change												○			every 600 Hr	90	
25	Front axle gear case oil	Change												○			every 600 Hr	91	
26	Front axle pivot	Adjust												○			every 600 Hr	91	
27	Engine valve clearance	Adjust															every 800 Hr	91	*4
28	Fuel injector nozzle tip	Clean															every 1500 Hr	91	*4 @
29	Oil separator element	Replace															every 1500 Hr	91	@
30	PCV (Positive Crankcase Ventilation) valve (Oil separator)	Check															every 1500 Hr	92	*4 @
31	EGR cooler	Check Clean															every 1500 Hr	92	*4 @
32	EGR system	Check Clean															every 3000 Hr	92	*4 @
33	Turbo charger	Check															every 3000 Hr	92	*4 @
34	Supply pump	Check															every 3000 Hr	92	*4
35	Intake air heater	Check															every 3000 Hr	92	*4
36	DPF muffler	Clean															every 3000 Hr	92	*4 @
37	Exhaust manifold	Check															every 1 year	92	*4
38	DPF differential pressure sensor pipe	Check															every 1 year	92	*4
39	EGR pipe	Check															every 1 year	92	*4
40	Cooling system	Flush															every 2 years	92	
41	Coolant	Change															every 2 years	93	

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
42	PCV (Positive Crankcase Ventilation) valve hose	Replace															every 2 years	94	*4	
43	DPF differential pressure sensor hose	Replace															every 2 years	94	*4	
44	Boost sensor hose	Replace															every 2 years	94	*4	
45	Master cylinder filter	Clean															every 2 years	94	*4	
46	Master cylinder kit	Replace															every 2 years	94	*4	
47	Equalizer kit	Replace															every 2 years	94	*4	
48	Brake seal 1 and 2	Replace															every 2 years	94	*4	
49	Lift cylinder hose	Replace															every 2 years	94	*4	
50	Fuel system	Bleed															Service as required	95		
51	Brake system	Bleed																96	*4	
52	Clutch housing water	Drain																96		
53	Fuse	Replace																96		
54	Light bulb	Replace																97		

IMPORTANT :

- The jobs indicated by © must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		M8560	M9960		
1	Fuel	90 L (23.8 U.S.gals.)		No.2-D S15 diesel fuel No.1-D S15 diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9 L (9.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	10.7 L (11.3 U.S.qts.)		● Engine oil: API Service Classification	CJ-4 [DPF type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	60 L (63.4 U.S.qts.)		● KUBOTA SUPER UDT2 fluid*	
5	Front differential case oil [4WD]	6.0 L (6.3 U.S.qts.)		● KUBOTA SUPER UDT2 fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
7	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	2			
	Knuckle shaft [2WD]	2			
	Battery terminal	2		A small amount	

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class of engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ **Fuel:**

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ **Transmission Oil:**

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M8560, M9960 CAB

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	88		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	89		
3	Tie-rod dust cover	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	90	*4	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	94	*5	
5	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	90		
6	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	92		
7	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	92		
8	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	93		
9	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		every 100 Hr	91	*1	
		Replace														every 1 year	105	*2		
		Secondary element	Replace														every 1 year	105		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	93		
		Replace															every 2 years	107	*4	
11	Parking brake	Check		○		○		○		○		○		○		○	every 100 Hr	94		
12	Toe-in	Adjust				○				○				○			every 200 Hr	97		
13	Fuel tank water	Drain				○				○				○			every 200 Hr	98		
14	Power steering oil line	Check				○				○				○			every 200 Hr	97		
		Replace															every 2 years	107	*4	
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	96		
		Replace															every 2 years	107		
16	Intake air line	Check				○				○				○			every 200 Hr	96		
		Replace															every 2 years	107	*3	
17	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	99		

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
18	Engine oil	Change	☉							○						every 400 Hr	100			
19	Engine oil filter	Replace	☉							○						every 400 Hr	101			
20	Fuel filter	Replace								○						every 400 Hr	101			
21	Greasing (2WD front wheel hub)	---								○						every 400 Hr	102			
22	Water separator	Clean								○						every 400 Hr	102			
23	Transmission fluid	Change	☉										○			every 600 Hr	102			
24	Front differential case oil	Change											○			every 600 Hr	103			
25	Front axle gear case oil	Change											○			every 600 Hr	103			
26	Front axle pivot	Adjust											○			every 600 Hr	103			
27	Engine valve clearance	Adjust														every 800 Hr	104	*4		
28	Fuel injector nozzle tip	Check														every 1500 Hr	104	*4	@	
29	Oil separator element	Replace														every 1500 Hr	104		@	
30	PCV (Positive Crankcase Ventilation) valve (Oil separator)	Check														every 1500 Hr	104	*4	@	
31	EGR cooler	Check Clean														every 1500 Hr	104	*4	@	
32	EGR system	Check Clean														every 3000 Hr	104	*4	@	
33	Turbo charger	Check														every 3000 Hr	104	*4	@	
34	Supply pump	Check														every 3000 Hr	104	*4		
35	Intake air heater	Check														every 3000 Hr	104	*4		
36	DPF muffler	Clean														every 3000 Hr	104	*4	@	
37	Exhaust manifold	Check														every 1 year	105	*4		
38	DPF differential pressure sensor pipe	Check														every 1 year	105	*4		
39	EGR pipe	Check														every 1 year	105	*4		
40	Cooling system	Flush														every 2 years	105			
41	Coolant	Change														every 2 years	106			

No.	Items		Indication on hour meter														Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
42	PCV (Positive Crankcase Ventilation) valve hose	Replace															every 2 years	107	*4		
43	DPF differential pressure sensor hose	Replace																107	*4		
44	Boost sensor hose	Replace																107			
45	Master cylinder filter	Clean																107	*4		
46	Master cylinder kit	Replace																107	*4		
47	Equalizer kit	Replace																107	*4		
48	Brake seal 1 and 2	Replace																107	*4		
49	Lift cylinder hose	Replace																107	*4		
50	Fuel system	Bleed															Service as required	107			
51	Brake system	Bleed																108	*4		
52	Clutch housing water	Drain																108			
53	Fuse	Replace																108			
54	Light bulb	Replace																110			

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
1	Inner air filter	Clean				○				○				○			every 200 Hr	98		
2	Fresh air filter	Clean				○				○				○				98		
3	Air conditioner condenser	Clean				○				○				○				99		
4	Air conditioner pipes and hoses	Check															every 1 year	105		
		Replace															every 2 years	107		
5	CAB isolation cushion	Check															every 1 year	105		
6	Washer liquid	Add															Service as required	111		
7	Refrigerant (gas)	Check																112		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities		Lubricants	
		M8560	M9960		
1	Fuel	110 L (29.1 U.S.gals.)		No.2-D S15 diesel fuel No.1-D S15 diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9 L (9.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
3	Engine crankcase (with filter)	10.7 L (11.3 U.S.qts.)		● Engine oil: API Service Classification	CJ-4 [DPF type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	60 L (63.4 U.S.qts.)		● KUBOTA SUPER UDT2 fluid*	
5	Front differential case oil [4WD]	6.0 L (6.3 U.S.qts.)		● KUBOTA SUPER UDT2 fluid* or SAE 80 - SAE 90 gear oil	
6	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
7	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	2			
	Knuckle shaft [2WD]	2			
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

NOTE :**◆ Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with DPF (Diesel Particulate Filter) type engines) and the fuel.

Fuel used	Engine oil classification (API classification)
	Oil class of engines with DPF
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CJ-4

◆ Fuel:

- Use the ultra low sulfur diesel fuel only [below 0.0015% (15 ppm)] for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of standard hydraulic/transmission fluid.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M9540 Dual

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	81		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	82		
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	83	*5	
4	Greasing	---		○		○		○		○		○		○		○	every 100 Hr	87		
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	85		
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	86		
7	Clutch pedal [Synchro shuttle model]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	85		
8	Air cleaner element	Primary element	Clean		○		○		○		○		○		○		every 100 Hr	84	*1	◎
		Replace															every 1 year	99	*2	
		Secondary element	Replace														every 1 year	99		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	87		◎
		Replace															every 2 years	102	*4	
10	Parking brake	Check		○		○		○		○		○		○		○	every 100 Hr	87		
11	Toe-in	Adjust				○				○				○			every 200 Hr	90		
12	Fuel tank water	Drain				○				○				○			every 200 Hr	91		
13	Power steering oil line	Check				○				○				○			every 200 Hr	89		
		Replace															every 2 years	102	*4	
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	89		
		Replace															every 2 years	102		
15	Intake air line	Check				○				○				○			every 200 Hr	89		◎
		Replace															every 2 years	102	*3	
16	Engine oil	Change	◎					○						○			every 300 Hr	95		

M9540 Dual

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
17	Hydraulic oil filter	Replace	⊙					○						○			every 300 Hr	94		
18	Greasing (2WD front wheel hub)	---								○							every 400 Hr	96		
19	Water separator	Clean								○							every 400 Hr	96		
20	Fuel filter	Replace								○							every 400 Hr	95		@
21	Engine oil filter	Replace	⊙											○			every 600 Hr	97		
22	Transmission fluid	Change	⊙											○			every 600 Hr	97		
23	Front differential case oil	Change	⊙											○			every 600 Hr	98		
24	Front axle gear case oil	Change	⊙											○			every 600 Hr	99		
25	Front axle pivot	Adjust												○			every 600 Hr	99		
26	Engine valve clearance	Adjust															every 800 Hr	99	*4	
27	Fuel injection nozzle injection pressure	Check															every 1500 Hr	99	*4	@
28	Turbo charger	Check															every 3000 Hr	99	*4	@
29	Injection pump	Check															every 3000 Hr	99	*4	@
30	Intake air heater	Check															every 3000 Hr	99	*4	
31	Cooling system	Flush															every 2 years	100		
32	Coolant	Change															every 2 years	100		
33	Master cylinder filter	Clean															every 2 years	102	*4	
34	Lift cylinder hose	Replace															every 2 years	102	*4	
35	Master cylinder kit	Replace															every 2 years	102	*4	
36	Equalizer kit	Replace															every 2 years	102	*4	
37	Brake seal 1 and 2	Replace															every 2 years	102	*4	
38	Fuel system	Bleed															Service as required	102		
39	Brake system	Bleed															Service as required	103	*4	
40	Clutch housing water	Drain															Service as required	103		

M9540 Dual

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
41	Fuse	Replace															Service as required	103		
42	Light bulb	Replace															Service as required	105		

No.	Items		Indication on hour meter													Interval	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
1	Inner air filter	Clean				○				○				○			every 200 Hr	91		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	92		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	93		
4	Air conditioner drive belt	Adjust				○				○				○			every 200 Hr	93		
5	Air conditioner pipes and hoses	Check															every 1 year	99		
		Replace															every 2 years	102		
6	CAB isolation cushion	Check															every 1 year	99		
7	Washer liquid	Add															Service as required	106		
8	Refrigerant (gas)	Check															Service as required	106		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		M8540	M9540		
1	Fuel	110 L (29.1 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9 L (9.5 U.S.qts.) (Recovery tank: 1.0 L (1.1 U.S.qts.))		Fresh clean soft water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
4	Engine crankcase (with filter)	10.7 L (11.3 U.S.qts.)		● Engine oil: API Service Classification	CF or CI-4 [External EGR type engine]
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 15W-40
5	Transmission case	60 L (63.4 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid*	
6	Front differential case oil [4WD]	6.0 L (6.3 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
7	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
8	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	1		Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	Top link bracket	2			
	Lift rod	2			
	Hydraulic lift cylinder pin	4			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	2			
	Knuckle shaft [2WD]	2			
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M9540 Dual

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M95S, M105S

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650	700					
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	71			
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	72			
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	73	*5		
4	Greasing			○		○		○		○		○		○		○	every 100 Hr	77			
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	75			
6	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	76			
7	Parking Brake Lever	Adjust		○		○		○		○		○		○		○	every 100 Hr	77			
8	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	74	*1	Ⓒ
		Replace															every 1 year	89	*2		
		Second-ary element	Replace															every 1 year	89		
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	77		Ⓒ	
		Replace															every 2 years	91	*4		
10	Hydraulic oil filter	Replace	⊙			○				○				○			every 200 Hr	79			
11	Toe-in	Check				○				○				○			every 200 Hr	80			
12	Fuel tank water	Drain				○				○				○			every 200 Hr	81			
13	Power steering oil line	Check				○				○				○			every 200 Hr	80		Ⓒ	
		Replace															every 2 years	91	*4		
14	Radiator hose and clamp	Check				○				○				○			every 200 Hr	79		Ⓒ	
		Replace															every 2 years	91			
15	Intake air line	Check				○				○				○			every 200 Hr	81		Ⓒ	
		Replace															every 2 years	91	*3		
16	Engine oil	Change	⊙					○						○			every 300 Hr	84			

M95S, M105S

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
17	Greasing (2WD front wheel hub)	---								○							every 400 Hr	86	
18	Water separator	Clean								○							every 400 Hr	85	
19	Fuel filter	Replace								○							every 400 Hr	85	@
20	Engine oil filter	Replace	◎											○			every 600 Hr	86	
21	Transmission fluid	Change	◎											○			every 600 Hr	87	
22	Front differential case oil	Change	◎											○			every 600 Hr	87	
23	Front axle gear case oil	Change	◎											○			every 600 Hr	88	
24	King-pin pivot	Adjust												○			every 600 Hr	88	
25	Brake oil	Change												○			every 600 Hr	88	*4 @
26	Front axle pivot	Adjust												○			every 600 Hr	88	@
27	Engine valve clearance	Adjust															every 800 Hr	89	*4
28	Fuel injection nozzle injection pressure	Check															every 1500 Hr	89	*4 @
29	Turbo charger	Check															every 3000 Hr	89	*4 @
30	Injection pump	Check															every 3000 Hr	89	*4 @
31	Fuel injection timer	Check															every 3000 Hr	89	*4 @
32	Intake air heater	Check															every 3000 Hr	89	*4
33	Cooling system	Flush															every 2 years	89	
34	Coolant	Change															every 2 years	89	
35	Parking brake cable	Replace															every 2 years	91	*4
36	Brake hose	Replace															every 2 years	91	*4
37	Master cylinder kit	Replace															every 2 years	91	*4
38	Equalizer kit	Replace															every 2 years	91	*4
39	Brake seal 1 and 2	Replace															every 2 years	91	*4
40	Fuel system	Bleed															Service as required	91	
41	Brake system	Bleed															Service as required	92	*4

M95S, M105S

No.	Items		Indication on hour meter													Since then	Ref. page			
			50	100	150	200	250	300	350	400	450	500	550	600	650					700
42	Clutch housing water	Drain															Service as required	92		
43	Fuse	Replace															Service as required	92		
44	Light bulb	Replace															Service as required	93		

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	82		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	82		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	83		
4	Air conditioner drive belt	Adjust				○				○				○			every 200 Hr	84		
5	Air conditioner pipes and hoses	Check															every 1 year	89		
6	CAB isolation cushion	Check															every 1 year	89		
7	Washer liquid	Add															Service as required	93		
8	Refrigerant (gas)	Check															Service as required	94		

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		M95S	M105S		
1	Fuel	175 L (46.2 U.S.gals.)		No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	9.1 L (9.6 U.S.qts.) (Recovery tank: 1.1 L (1.2 U.S.qts.))		Fresh clean water with anti-freeze	
3	Washer liquid	1.3 L (1.4 U.S.qts.)		Automobile washer liquid	
4	Engine crankcase (with filter)	10.7 L (11.3 U.S.qts.)		● Engine oil: API Service Classification CD, CE or CF	
				Above 25 °C (77 °F)	SAE30, SAE10W-30 or 10W-40
				0 to 25 °C (32 to 77 °F)	SAE20, SAE10W-30 or 10W-40
				Below 0 °C (32 °F)	SAE10W, SAE10W-30 or 10W-40
5	Transmission case	60 L (63.4 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid*	
6	Brake oil (reservoir and lines)	0.3 L (0.3 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or Turbine oil 32 (See below) regular type, multipurpose straight mineral oil Mobile DTE Oil #32 TEXACO Regal Oil #32 CHEVRON -GST Oil #32 TERESSO OIL #32 Never use automotive brake oil.	
7	Front differential case oil [4WD]	7 L (7.4 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil	
8	Front axle gear case oil [4WD]	3.5 L (3.7 U.S.qts.)			
9	Greasing	No. of greasing points		Capacity	Type of grease
	Top link	2		Until grease overflows.	Multipurpose type grease
	Top link bracket	2			
	Lift rod	3			
	Front axle gear case support [4WD]	2			
	Front axle support	2			
	Front wheel hub [2WD]	---	2		
	Knuckle shaft [2WD]	---	2		
	Steering joint shaft	1			
	Battery terminal	2		A small amount	

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M95S, M105S

NOTE :

- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
 - With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
 - Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN \geq 10
CF-4	○	X	
CG-4	○	X	

- Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

M95X M108X M125X

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	⊙					○						○			every 300 Hr	112		
2	Engine oil filter	Replace	⊙											○			every 600 Hr	115		
3	Fuel filter	Replace								○							every 400 Hr	114		@
4	In-line fuel filter [M125X]	Clean								○							every 400 Hr	115		
5	Transmission fluid	Change	⊙											○			every 600 Hr	116		
6	Front differential case oil	Change	⊙											○			every 600 Hr	117		
7	Front axle gear case oil	Change	⊙											○			every 600 Hr	117		
8	Hydraulic oil filter (suction side)	Replace	⊙			○				○				○			every 200 Hr	105		
9	Hydraulic oil filter (return side)	Replace	⊙			○				○				○			every 200 Hr	105		
10	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	96		
11	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	96		
12	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	98, 99	*5	
13	Greasing			○		○		○		○		○		○		○	every 100 Hr	97		
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	102		
15	Brake Pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	103		
16	Parking Brake Lever	Adjust		○		○		○		○		○		○		○	every 100 Hr	104		
17	Fuel line		Check		○		○		○		○		○		○		every 100 Hr	104		@
			Replace													every 2 years	121	*4		
18	Air cleaner element [Double type]	Primary element	Clean		○		○		○		○		○		○		every 100 Hr	101	*1	@
			Replace													every 1 year	119	*2		
		Secondary element	Replace														every 1 year	119		
19	Toe-in		Check				○			○				○			every 200 Hr	109		

M95X M108X M125X

No.	Items		Indication on hour meter													Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
20	Oil cooler line	Check				○				○				○			every 200 Hr	107	
		Replace															every 2 years	121	
21	Power steering oil line	Check				○				○				○			every 200 Hr	108	
		Replace															every 2 years	121	*4
22	Radiator hose and clamp	Check				○				○				○			every 200 Hr	106	
		Replace															every 2 years	121	
23	Intake air line	Check				○				○				○			every 200 Hr	108	@
		Replace															every 2 years	121	
24	Fuel tank water	Drain-				○				○				○			every 200 Hr	109	
25	Water separator [M95X, M105X]	Clean								○							every 400 Hr	114	
26	Brake oil	Change												○			every 600 Hr	118	*4
27	Front axle pivot	Adjust												○			every 600 Hr	118	
28	King-pin pivot	Adjust												○			every 600 Hr	118	
29	Engine valve clearance	Adjust															every 800 Hr	118	*4
30	Fuel injection nozzle injection pressure [M95X, M125X]	Check															every 1500 Hr	118	*4 @
31	Fuel injection nozzle active test [M108X]	Check															every 1500 Hr	118	*4 @
32	Turbo charger	Check															every 3000 Hr	118	*4 @
33	Injection pump [M95X, M125X]	Check															every 3000 Hr	118	*4 @
34	Supply pump [M108X]	Check															every 3000 Hr	118	*4 @
35	Fuel injection timer [M125X]	Check															every 3000 Hr	118	*4 @
36	Intake air heater	Check															every 3000 Hr	118	*4
37	Cooling system	Flush															every 2 years	119	
38	Coolant	Change															every 2 years	119	
39	Parking brake cable	Replace															every 2 years	121	*4
40	Brake hose / Brake tank hose	Replace															every 2 years	122	*4

M95X M108X M125X

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
41	Clutch hose	Replace															every 2 years	122	*4	
42	Differential lock hose	Replace															every 2 years	122	*4	
43	Master cylinder kit	Replace															every 2 years	122	*4	
44	Equalizer kit	Replace															every 2 years	122	*4	
45	Brake seal 1 and 2	Replace															every 2 years	122	*4	
46	Assist cylinder hose	Replace															every 2 years	122	*4	
47	Fuel system	Bleed															Service as required	122		
48	Brake system	Bleed															Service as required	124	*4	
49	Clutch housing water	Drain															Service as required	124		
50	Fuse	Replace															Service as required	124		
51	Light bulb	Replace															Service as required	126		

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Inner air filter	Clean				○				○				○			every 200 Hr	109		
2	Fresh air filter	Clean				○				○				○			every 200 Hr	110		
3	Air conditioner condenser	Clean				○				○				○			every 200 Hr	111		
4	Air conditioner drive belt	Adjust				○				○				○			every 200 Hr	112		
5	Air conditioner pipes and hoses	Check															every 1 year	119		
		Replace															every 2 years	122		
6	CAB isolation cushion	Check															every 1 year	119		
7	Washer liquid	Add															Service as required	127		
8	Refrigerant (gas)	Check															Service as required	127		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.

M95X M108X M125X

- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities			Lubricants		
		M95X	M108X	M125X			
1	Fuel	190 L (50.2 U.S.gals.)			No.2-D diesel fuel No.1-D diesel fuel if temperature is below -10 °C (14 °F)		
2	Coolant	9.6 L (10.1 U.S.qts.) (Recovery tank: 1.1 L (1.2 U.S. qts.))		14.5 L (15.3 U.S.qts.) (Recovery tank: 2.3 L (2.4 U.S. qts.))	Fresh clean water with anti-freeze		
3	Washer liquid	1.3 L (1.4 U.S.qts.)			Automobile washer liquid		
4	Engine crankcase (with filter)	10.5 L (11.1 U.S.qts.)	20.8 L (22.0 U.S.qts.)	● Engine oil: API Service Classification	M108X	CF or CI-4 [External EGR type engine]	
					M95X M125X	CD, CE or CF	
				Above 25 °C (77 °F)		SAE30, SAE10W-30 or 15W-40	
				0 to 25 °C (32 to 77 °F)		SAE20, SAE10W-30 or 15W-40	
				Below 0 °C (32 °F)		SAE10W, SAE10W-30 or 15W-40	
5	Transmission case	60 L (63.4 U.S.qts.)			● KUBOTA UDT or SUPER UDT fluid*		
6	Brake oil (reservoir and lines)	0.3 L (0.3 U.S.qts.)			● KUBOTA UDT or SUPER UDT fluid* or Turbine oil 32 (See below) regular type, multipurpose straight mineral oil Mobile DTE Oil #32 TEXACO Regal Oil #32 CHEVRON -GST Oil #32 TERESSO OIL #32 Never use automotive brake oil.		
7	Front differential case oil	7 L (7.4 U.S.qts.)	12 L (12.7 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid* or SAE 80 - SAE 90 gear oil			
8	Front axle gear case oil	3.5 L (3.7 U.S.qts.)	4.5 L (4.8 U.S.qts.)				
9	Greasing	No. of greasing points			Capacity		Type of grease
	Top link	2			Until grease overflows.	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)	
	Lift rod	3					
	Front axle gear case support	2					
	Front axle support	2					
	Steering joint shaft	1					
	Assist cylinder (if equipped)	2					
	Battery terminal	2			A small amount		

NOTE :

* KUBOTA UDT or SUPER UDT fluid... KUBOTA original transmission hydraulic fluid

M95X M108X M125X

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

MX4700 (F,DT,HST),
MX5100 (F,DT,HST)

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	---	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	60		
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	61		
3	Wheel bolts and nuts torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	62		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	65	*5	
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	64		
6	Clutch pedal free play	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	64		
7	Brake pedals free play	Adjust		○		○		○		○		○		○		○	every 100 Hr	64		
8	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	63		@
		Replace								○							every 400 Hr	73		
9	Air cleaner element [Double element type]	Clean		○		○		○		○		○		○		○	every 100 Hr	63	*1	@
	Primary element	Replace															every 1 year	73	*2	
	Secondary element	Replace															every 1 year	73		
10	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	65		@
		Replace															every 2 year	75	*4	
11	Engine oil	Change	◎			○				○				○			every 200 Hr	67		
12	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	67		
13	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	68		
14	Toe-in	Adjust				○				○				○			every 200 Hr	71		
15	Radiator hose and clamp	Check				○				○				○			every 200 Hr	69		
		Replace															every 2 year	75		

MX4700 (F,DT,HST), MX5100 (F,DT,HST)

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
16	Power steering oil line	Check				○				○				○			every 200 Hr	70		
		Replace															every 2 year	75	*4	
17	Intake air line	Check				○				○				○			every 200 Hr	70		@
		Replace															every 2 year	75	*4	
18	Oil cooler line [HST]	Check				○				○				○			every 200 Hr	69		
		Replace															every 2 year	75		
19	Hydraulic oil filter	Replace								○							every 400 Hr	72		
20	Transmission fluid	Change								○							every 400 Hr	72		
21	Front axle case oil (4WD)	Change								○							every 400 Hr	73		
22	Greasing (2WD front wheel hub)	---								○							every 400 Hr	73		
23	Front axle pivot	Adjust												○			every 600 Hr	73		
24	Engine valve clearance	Adjust															every 800 Hr	73	*4	
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	73	*4	@
26	Injection pump	Check															every 3000 Hr	73	*4	@
27	Turbocharger [MX5100]	Check															every 3000 Hr	73	*4	@
28	Cooling system	Flush															every 2 year	74		
29	Coolant	Change															every 2 year	74		
30	Fuel system	Bleed															Service as required	76		
31	Clutch housing water	Drain																76		
32	Fuse	Replace																77		
33	Light bulb	Replace																77		

IMPORTANT :

- The jobs indicated by ○ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see Warranty Statement in detail.

LUBRICANTS

No.	Locations	Capacities		Lubricants	
		MX4700	MX5100		
1	Fuel	48.0 L (12.7 U.S.gals.)		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
2	Coolant	7.0 L (7.4 U.S.qts.)		Fresh clean soft water with anti-freeze	
3	Engine crankcase (with filter)	8.0 L (8.5 U.S.qts.)		● Engine oil : Refer to next page	
				Above 25°C (77°F)	SAE30, SAE10W-30 or 15W-40
				0 to 25°C (32 to 77°F)	SAE20, SAE10W-30 or 15W-40
				Below 0°C (32°F)	SAE10W, SAE10W-30 or 15W-40
4	Transmission case	44.0 L (11.6 U.S.gals.)		● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case [4WD]	9.0 L (9.5 U.S.qts.)		● KUBOTA UDT or SUPER UDT fluid* or SAE80 - SAE 90 gear oil	
6	Greasing	No. of greasing points		Capacity	Type of grease
	● Front wheel hub [2WD]	2		Moderate amount	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
	● Knuckle shaft [2WD]	2		Until grease overflows.	
	● Front wheel case support [4WD]	2			
	● Front axle support [4WD]	2			
	● Top link	2			
	● Top link bracket	2 [with Draft Control (if equipped)]			
	● Lift rod	1			
	● Battery terminals	2		Moderate amount	

NOTE: *KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

MX4700 (F,DT,HST), MX5100 (F,DT,HST)

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel (≥ 500 ppm)	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel (< 500 ppm) or Ultra Low Sulfur Fuel (< 15 ppm)	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Model	MX4700 / MX5100	---

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft).
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C (14°F).

◆ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE

RTV1100



CAUTION

To avoid personal injury and vehicle damage:

- Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.
- If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.
- Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed below (@marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the below instruction. Please see Warranty Statement in detail.

No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	58	
2	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	57	
3	Engine oil	Change	◎	○		○		○		○		○		○		○	every 100 hrs	60	
4	Muffler [Spark arrester]	Clean		○		○		○		○		○		○		○	every 100 hrs	64	
5	Wheel bolt torque	Check	◎	○		○		○		○		○		○		○	every 100 hrs	59	
6	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	62	*5
7	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	61	
8	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	59	
9	Toe-in	Adjust		○		○		○		○		○		○		○	every 100 hrs	63	
10	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 hrs	61	@
		Replace										○					every 500 hrs	78	
11	Fuel line	Check		○		○		○		○		○		○		○	every 100 hrs	61	@
		Replace															every 2 years	80	

RTV1100

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
12	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 hrs	61	*1	@
		Replace															every 1 year	78	*2	
13	Engine oil filter	Replace	◎			○				○				○			every 200 hrs	66		
14	Transmission oil filter (HST) (Yellow color)	Replace	◎			○				○				○			every 200 hrs	66		
15	Transmission oil filter (Suction) (Orange color)	Replace	◎			○				○				○			every 200 hrs	66		
16	Transmission fluid	Change	◎			○				○				○			every 200 hrs	67		
17	Parking brake lever	Adjust	◎			○				○				○			every 200 hrs	65		
18	Brake light switch	Check	◎			○				○				○			every 200 hrs	71		
19	Front brake case	Check	◎			○				○				○			every 200 hrs	71		
20	Hydraulic oil	Change				○				○				○			every 200 hrs	68		
21	Hydraulic oil line	Check				○				○				○			every 200 hrs	73		
22	Hydraulic tank oil filter (Return) (Yellow color)	Replace				○				○				○			every 200 hrs	69		
23	Radiator hose and clamp	Check				○				○				○			every 200 hrs	72		
		Replace															every 2 years	80		
24	Power steering oil line	Check				○				○				○			every 200 hrs	72		
		Replace															every 2 years	80	*4	
25	Intake air line	Check				○				○				○			every 200 hrs	73		@
		Replace															every 2 years	80	*3	
26	Brake hose & pipe	Check	◎			○				○				○			every 200 hrs	70		
		Replace															every 4 years	80	*4	
27	Inner air filter	Clean				○				○				○			every 200 hrs	74		
28	Fresh air filter	Clean				○				○				○			every 200 hrs	74		
29	Air conditioner condenser	Check				○				○				○			every 200 hrs	75		
30	Air conditioner drive belt	Adjust				○				○				○			every 200 hrs	76		

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No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
31	Tire wear	Check	◎					○						○			every 300 hrs	76		
32	Front axle case oil	Change								○							every 400 hrs	77		
33	Knuckle case oil	Change								○							every 400 hrs	77		
34	Engine valve clearance	Adjust															every 800 hrs	78	*4	
35	Fuel injection nozzle Injection pressure	Check															every 1500 hrs	78	*4	@
36	Injection pump	Check															every 3000 hrs	78	*4	@
37	Air conditioner pipe and hoses	Check															every 1 years	78		
		Replace															every 2 years	80		
38	Brake Master cylinder (inner parts)	Replace															every 2 years	80	*4	
39	Brake fluid	Change															every 2 years	78	*4	
40	Remote hydraulic hose	Replace															every 2 years	80	*4	
41	Rear brake cylinder seal	Replace															every 2 years	80	*4	
42	Front brake seal	Replace															every 2 years	80	*4	
43	Cooling system	Flash															every 2 years	78		
44	Coolant	Change															every 2 years	78		
45	Fuel system	Bleed															Service as required	80		
46	Fuse	Replace																80		
47	Around engine	Clean																80		
48	Light bulb	Replace																82		
49	Washer liquid	Add																82		
50	Refrigerant (gas)	Check																83		
51	Hydraulic tank	Check																82		

LUBRICANTS

RTV1100

No.	Locations	Capacities	Lubricants
1	Fuel	30 L (7.9 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with reserve tank)	5.2 L (5.5 U.S.qts.)	Fresh clean water with anti-freeze
3	Washer liquid	1.5 L (1.6 U.S.gals.)	
4	Engine crankcase	[Filter exchanged] 4.1 L (4.3 U.S.qts.) [Filter non-exchanged] 3.8 L (4.0 U.S.qts.)	• Engine oil: API Service Classification CF or better
			Above 25 °C (77 °F) SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F) SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F) SAE10W, SAE10W-30
5	Transmission case	12 L (3.2 U.S.gals.)	• KUBOTA UDT or SUPER UDT fluid*
6	Front axle case	0.6 L (0.6 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
7	Knuckle case	Ref. 0.15 L (0.16 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
8	Brake fluid (reservoir and lines)	0.87 L (0.9 U.S.qts.)	KUBOTA DOT3 GENUINE BRAKE FLUID
9	Hydraulic oil	16.5 L (17.4 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*

Greasing	No. of greasing points	Capacity	Type of grease
VHT link	2	Until grease overflows	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
Battery terminal	2	Moderate amount	
Cargo lift cylinder pivot	2		
Cargo bed pivot	2		
Parking brake linkage	2		
Range gear shift lever pivot	2		
4WD lever pivot	1		
VHT pressure release	1		
Steering joint shaft	1		
Accelerator wire	---		
Hand throttle cable	---		
			Oil

NOTE :

*KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

NOTE :

● Engine Oil:

Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:

● Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance.

(Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

● Brake fluid:

Always use **KUBOTA DOT3 GENUINE BRAKE FLUID** from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with **KUBOTA DOT3 GENUINE BRAKE FLUID** as soon as possible.

● Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

RTV1140



CAUTION

To avoid personal injury and vehicle damage:

- Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.
- If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.
- Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed below (@marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the below instruction. Please see Warranty Statement in detail.

No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine oil	Change	◎			○				○				○			every 200 hrs	58	
2	Engine oil filter	Replace	◎			○				○				○			every 200 hrs	59	
3	Transmission fluid	Change								○							every 400 hrs	66	
4	Transmission oil filter (HST) (Yellow color)	Replace	◎			○				○				○			every 200 hrs	60	
5	Transmission oil filter (Suction) (Orange color)	Replace	◎			○				○				○			every 200 hrs	60	
6	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	52	
7	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	51	
8	Muffler	Clean	◎	○		○		○		○		○		○		○	every 100 hrs	57	
9	Spark arrester	Clean		○		○		○		○		○		○		○	every 100 hrs	57	
10	Wheel bolt torque	Check	◎	○		○		○		○		○		○		○	every 100 hrs	53	
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	55	*5
12	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	54	

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No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
13	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	53	
14	Toe-in	Adjust		○		○		○		○		○		○		○	every 100 hrs	56	
15	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 hrs	54	@
		Replace										○					every 500 hrs	68	
16	Fuel line	Check		○		○		○		○		○		○		○	every 100 hrs	54	@
		Replace															every 2 years	70	
17	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 hrs	53	@
		Replace															every 1 year	68	
18	Brake pedal	Check	◎			○				○				○			every 200 hrs	62	*4
19	Parking brake lever	Adjust	◎			○				○				○			every 200 hrs	59	
20	Brake light switch	Check	◎			○				○				○			every 200 hrs	63	
21	Front brake case	Check	◎			○				○				○			every 200 hrs	63	
22	Hydraulic tank oil	Change				○				○				○			every 200 hrs	60	
23	Hydraulic oil line	Check				○				○				○			every 200 hrs	-	
24	Hydraulic tank oil filter	Replace				○				○				○			every 200 hrs	61	
25	Radiator hose and clamp	Check				○				○				○			every 200 hrs	63	
		Replace															every 2 years	70	
26	Intake air line	Check				○				○				○			every 200 hrs	65	@
		Replace															every 2 years	70	
27	Brake hose & pipe	Check	◎			○				○				○			every 200 hrs	62	
		Replace															every 4 years	70	*4
28	Tire wear	Check	◎					○						○			every 300 hrs	65	
29	Front axle case oil	Change								○							every 400 hrs	67	
30	Knuckle case oil	Change								○							every 400 hrs	67	
31	Engine valve clearance	Adjust															every 800 hrs	68	*4

RTV1140

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
32	Fuel injection nozzle Injection pressure	Check															every 1500 hrs	68	*4	@
33	Injection pump	Check															every 3000 hrs	68	*4	@
34	Brake Master cylinder (inner parts)	Replace															every 2 years	70	*4	
35	Brake fluid	Change															every 2 years	68	*4	
36	Remote hydraulic hose	Replace															every 2 years	70	*4	
37	Rear brake cylinder seal	Replace															every 2 years	70	*4	
38	Front brake seal	Replace															every 2 years	70	*4	
39	Cooling system	Flash															every 2 years	68		
40	Coolant	Change															every 2 years	68		
41	Fuel system	Bleed															Service as required	70		
42	Fuse	Replace																70		
43	Light bulb	Replace																72		

LUBRICANTS, FUEL AND COOLANT

RTV1140

No.	Locations	Capacities	Lubricants
1	Fuel	30 L (7.9 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with reserve tank)	4.0 L (4.2 U.S.qts.)	Fresh clean water with anti-freeze
3	Engine crankcase	[Filter exchanged] 4.1 L (4.3 U.S.qts.) [Filter non-exchanged] 3.8 L (4.0 U.S.qts.)	• Engine oil: API Service Classification CD, CE or CF
			Above 25 °C (77 °F) SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F) SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F) SAE10W, SAE10W-30
4	Transmission case	12 L (3.2 U.S.gals.)	• KUBOTA UDT or SUPER UDT fluid*
5	Front axle case	0.6 L (0.6 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
6	Knuckle case	Ref. 0.15 L (0.16 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
7	Brake fluid (reservoir and lines)	0.87 L (0.9 U.S.qts.)	KUBOTA DOT3 GENUINE BRAKE FLUID
8	Hydraulic tank oil	14.5 L (15.3 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*

Greasing	No. of greasing points	Capacity	Type of grease
VHT link	2	Until grease overflows	Multipurpose EP2 Grease (NLGI Grade No.2)
Battery terminal	2	moderate amount	
Cargo lift cylinder pivot	2		
Cargo bed pivot	2		
Parking brake linkage	4		
Range gear shift lever pivot	2		
4WD lever pivot	2		
VHT pressure release pivot	2		
Rear drive shaft	2		
Throttle cable	1		Oil

NOTE :

*KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

RTV1140

NOTE :

◆ Engine Oil:

Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C.

◆ Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

◆ Brake fluid:

Always use KUBOTA **DOT3** GENUINE BRAKE FLUID from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with KUBOTA **DOT3** GENUINE BRAKE FLUID as soon as possible.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

RTV400ci



CAUTION

To avoid personal injury and vehicle damage:

- Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.
- If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.
- Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
 - Changing engine oil and engine oil filter indicated by ☆ must be done after the first 20 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:
 1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work.
See the Emissions Warranty Statement.
 2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			20	50	100	150	200	250	300	350	400	450	500	550	600	650				700
1	Greasing	Apply		○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	45	
2	Engine start system	Check		○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	46	
3	Wheel bolt torque	Check		◎	○		○		○		○		○		○		○	every 100 hrs	46	
4	Air cleaner element (Engine)	Clean			○		○		○		○		○		○		○	every 100 hrs	48	*1
		Replace																every 1 year	60	*2
5	Air cleaner element (CVT)	Clean			○		○		○		○		○		○		○	every 100 hrs	48	*1
		Replace																every 1 year	60	*2
6	Fuel line	Check			○		○		○		○		○		○		○	every 100 hrs	50	
		Replace																every 2 years	61	*4
7	Carbon canister air filter	Check			○		○		○		○		○		○		○	every 100 hrs	51	*3
8	Battery condition	Check			○		○		○		○		○		○		○	every 100 hrs	51	*5

No.	Items		Indication of Hour Meter															After 700 hrs	Ref. Page	
			20	50	100	150	200	250	300	350	400	450	500	550	600	650	700			
9	Toe-in	Adjust			○		○		○		○		○		○		○	every 100 hrs	53	
10	Spark arrester	Clean			○		○		○		○		○		○		○	every 100 hrs	54	
11	Parking brake lever	Adjust		◎			○				○				○			every 200 hrs	54	*4
12	Engine oil filter	Replace	☆				○				○				○			every 200 hrs	55	
13	Engine oil	Change	☆		○		○		○		○		○		○		○	every 100 hrs	47	
14	Engine cooling air inlet and Engine cooling fin	Check					○				○				○			every 200 hrs	55	
15	CVT belt	Check		◎			○				○				○			every 200 hrs	58	*4
16	Transmission oil	Change									○							every 400 hrs	59	
17	Spark plug condition and gap	Check			○		○		○		○		○		○		○	every 100 hrs	49	
18	Brake pedal	Check		◎			○				○				○			every 200 hrs	56	*4
19	Brake hose & pipe	Check		◎			○				○				○			every 200 hrs	56	
		Replace																every 4 years	61	*4
20	Brake light switch	Check		◎			○				○				○			every 200 hrs	57	
21	Intake air line (Engine)	Check					○				○				○			every 200 hrs	57	
		Replace																every 2 years	61	*3
22	Intake air line (CVT)	Check					○				○				○			every 200 hrs	58	
		Replace																every 2 years	61	*3
23	Tire wear	Check		◎					○						○			every 300 hrs	58	
24	Front axle case oil	Change									○							every 400 hrs	60	
25	Engine valve clearance	Adjust							○						○			every 300 hrs	58	
26	Engine combustion chamber	Clean											○					every 500 hrs	60	
27	Brake fluid	Change																every 2 years	61	*4
28	Brake master cylinder (inner parts)	Replace																every 2 years	61	*4
29	Engine breather hose	Replace																every 2 years	61	

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page	
			20	50	100	150	200	250	300	350	400	450	500	550	600	650			
30	Brake pad wear	Check															Service as required	61	*4
31	Parking brake	Adjust																62	*4
32	Fuse	Replace																62	
33	Light bulb	Replace																64	

LUBRICANTS AND FUEL

No.	Locations	Capacities	Lubricants
1	Fuel	20 L (5.3 U.S.gals.)	<ul style="list-style-type: none"> • Automobile unleaded or regular gasoline • Unleaded gasoline 87 octane or higher • Gasohol (E10 or less)
2	Engine crankcase	[Filter exchanged] 1.6 L (1.7 U.S.qts.)** [Filter non-exchanged] 1.4 L (1.5 U.S.qts.)**	<ul style="list-style-type: none"> • Engine oil: API Service Classification SG, SH, SJ or higher Above -18 °C (0 °F) ...SAE10W-30 Below 0 °C (32 °F)SAE5W-20 or 5W-30
3	Transmission case	5.4 L (1.4 U.S.gals.)	• KUBOTA UDT or SUPER UDT-2 fluid*
4	Front axle case	0.21 L (0.22 U.S.qts.)	• KUBOTA UDT or SUPER UDT-2 fluid*
5	Brake fluid (reservoir and lines)	0.2 L (0.21 U.S.qts.)	KUBOTA DOT3 GENUINE BRAKE FLUID

Greasing	No. of greasing points	Capacity	Type of grease
Battery terminal	2	Moderate amount	Spray Type Grease
Cargo bed pivot	2		
Parking brake pivot	2		
Range gear shift lever pivot	1		
4WD lever pivot	1		
Differential lock lever	1		

NOTE :

*KUBOTA UDT or SUPER UDT-2 fluid --- KUBOTA original transmission hydraulic fluid

**Oil amount when the oil level is at the upper level of the oil level gauge.

NOTE :

◆ Engine Oil:

Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:

◆ Fuel:

- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/ alcohol blends are not approved.

◆ Transmission oil:

To complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT-2 fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

◆ Brake fluid:

Always use KUBOTA **DOT3 GENUINE BRAKE FLUID** from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with KUBOTA **DOT3 GENUINE BRAKE FLUID** as soon as possible.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

RTV500



CAUTION

To avoid personal injury and vehicle damage:

- Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.
- If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.
- Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ☉ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed below (@marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the below instruction. Please see Warranty Statement in detail.

No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	47	
2	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	49	
3	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	49	
4	Wheel bolt torque	Check	☉	○		○		○		○		○		○		○	every 100 hrs	49	
5	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 hrs	50	*1
		Replace															every 1 year	66	*2
6	Pre cleaner element	Clean		○		○		○		○		○		○		○	every 100 hrs	50	*1
		Replace															every 1 year	66	*2
7	Alternator drive belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	51	*4
8	Fuel line	Check		○		○		○		○		○		○		○	every 100 hrs	53	
		Replace															every 2 years	68	*4
9	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	54	*5
10	Toe-in	Adjust		○		○		○		○		○		○		○	every 100 hrs	55	

RTV500

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
11	Spark arrester	Clean		○		○		○		○		○		○		○	every 100 hrs	56		
12	Parking brake lever	Adjust	◎			○				○				○			every 200 hrs	57	*4	
13	Engine oil filter	Replace	◎			○				○				○			every 200 hrs	57		
14	Engine oil	Change	◎			○				○				○			every 200 hrs	58		
15	Radiator cooling fins	Clean				○				○				○			every 200 hrs	59		
16	Transmission oil filter (HST) (Yellow color)	Replace	◎			○				○				○			every 200 hrs	60		
17	Transmission oil filter (Suction) (Orange color)	Replace	◎			○				○				○			every 200 hrs	60		
18	Transmission oil	Change								○							every 400 hrs	65		
19	Spark plug condition and gap	Check				○				○				○			every 200 hrs	61		
20	Brake pedal	Check	◎			○				○				○			every 200 hrs	62	*4	
21	Brake hose & pipe	Check	◎			○				○				○			every 200 hrs	62		
		Replace															every 4 years	69	*4	
22	Brake light switch	Check	◎			○				○				○			every 200 hrs	63		
23	Radiator hose and clamp	Check				○				○				○			every 200 hrs	63		
		Replace															every 2 years	68		
24	Intake air line	Check				○				○				○			every 200 hrs	64		◎
		Replace															every 2 years	68	*3	
25	Tire wear	Check	◎					○						○			every 300 hrs	64		
26	Front axle case oil	Change								○							every 400 hrs	66		
27	Engine valve clearance	Adjust										○					every 500 hrs	66	*4	
28	Engine combustion chamber	Clean										○					every 500 hrs	66	*4	
29	Engine valve seat	Relap										○					every 500 hrs	66	*4	
30	Engine timing belt	Check										○					every 500 hrs	66	*4	
		Replace															every 1000 hrs	66	*4	
31	Brake fluid	Change															every 2 years	67	*4	

RTV500

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
32	Cooling system	Flush															every 2 years	67		
33	Coolant	Change															every 2 years	67		
34	Brake Master cylinder (inner parts)	Replace															every 2 years	68	*4	
35	Brake pad wear	Check															Service as required	69	*4	
36	Parking brake	Adjust																69	*4	
37	Alternator drive belt	Adjust																69	*4	
38	Fuse	Replace																70		
39	Light bulb	Replace																71		

LUBRICANTS, FUEL AND COOLANT RTV500

No.	Locations	Capacities	Lubricants
1	Fuel	20 L (5.3 U.S.gals.)	<ul style="list-style-type: none"> • Automobile unleaded or regular gasoline • Unleaded gasoline 87 octane or higher
2	Coolant (with reserve tank)	1.8 L (1.9 U.S.qts.)	Fresh clean water with anti-freeze
3	Engine crankcase	[Filter exchanged] 1.35 L (1.43 U.S.qts.)** [Filter non-exchanged] 1.2 L (1.27 U.S.qts.)**	<ul style="list-style-type: none"> • Engine oil: API Service Classification SG, SH, SJ or higher Above -18 °C (0 °F) ...SAE10W-30 or 15W-40 Below 0 °C (32 °F)SAE5W-20 or 5W-30
4	Transmission case	8.5 L (2.2 U.S.gals.)	• KUBOTA UDT or SUPER UDT fluid*
5	Front axle case	0.21 L (0.22 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
6	Brake fluid (reservoir and lines)	0.2 L (0.21 U.S.qts.)	KUBOTA DOT3 GENUINE BRAKE FLUID

Greasing	No. of greasing points	Capacity	Type of grease
VHT link	1	Until grease overflows	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
Battery terminal	2	Moderate amount	Spray Type Grease
Cargo bed pivot	2		
Parking brake pivot	2		
Range gear shift lever pivot	1		
4WD lever pivot	1		
Differential lock lever	1		
Bypass link	1		

NOTE :

*KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

**Oil amount when the oil level is at the upper level of the oil level gauge.

RTV500

NOTE :

- ◆ **Engine Oil:**
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- ◆ **Fuel:**
 - Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/ alcohol blends are not approved.
- ◆ **Transmission oil:**
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands or grades.
- ◆ **Brake fluid:**
Always use KUBOTA **DOT3** GENUINE BRAKE FLUID from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.
However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.
Have the brake system flushed and refilled with KUBOTA **DOT3** GENUINE BRAKE FLUID as soon as possible.
- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE

RTV900



CAUTION

To avoid personal injury and vehicle damage:

- Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.
- If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.
- Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 Every year or every 6 times of cleaning.
- *3 Replace only if necessary.
- *4 Consult your local KUBOTA Dealer for this service.
- *5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed below (@marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the below instruction. Please see Warranty Statement in detail.

No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	56	
2	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	55	
3	Engine oil	Change	◎	○		○		○		○		○		○		○	every 100 hrs	57	
4	Muffler	Clean	◎	○		○		○		○		○		○		○	every 100 hrs	62	
5	Spark arrester	Clean		○		○		○		○		○		○		○	every 100 hrs	62	
6	Wheel bolt torque	Check	◎	○		○		○		○		○		○		○	every 100 hrs	57	
7	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	60	*5
8	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	59	
9	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	57	
10	Toe-in	Adjust		○		○		○		○		○		○		○	every 100 hrs	61	
11	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 hrs	59	@
		Replace										○					every 500 hrs	76	

RTV900

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
12	Fuel line	Check		○		○		○		○		○		○		○	every 100 hrs	59		@
		Replace															every 2 years	78	*3	
13	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 hrs	58	*1	@
		Replace															every 1 year	76	*2	
14	Air cleaner element [Hydraulic utility valve equipped model]	Clean			○			○			○			○			every 150 hrs	64	*1	@
		Replace															every 1 year	76	*2	
15	Engine oil filter	Replace	◎			○				○				○			every 200 hrs	65		
16	Transmission oil filter (HST) (Yellow color)	Replace	◎			○				○				○			every 200 hrs	66		
17	Transmission oil filter (Suction) (Orange color)	Replace	◎			○				○				○			every 200 hrs	66		
18	Transmission fluid	Change	◎			○				○				○			every 200 hrs	67		
19	Brake pedal	Check	◎			○				○				○			every 200 hrs	70	*4	
20	Parking brake lever	Adjust	◎			○				○				○			every 200 hrs	65		
21	Brake light switch	Check	◎			○				○				○			every 200 hrs	71		
22	Front brake case	Check	◎			○				○				○			every 200 hrs	71		
23	Power steering oil	Change				○				○				○			every 200 hrs	73		
24	Hydraulic lift oil	Change				○				○				○			every 200 hrs	68		
25	Hydraulic auxiliary tank oil [Hydraulic utility valve equipped model]	Change				○				○				○			every 200 hrs	68		
26	Hydraulic auxiliary oil line [Hydraulic utility valve equipped model]	Check				○				○				○			every 200 hrs	74		
27	Hydraulic auxiliary tank oil filter [Hydraulic utility valve equipped model]	Replace				○				○				○			every 200 hrs	69		
28	Radiator hose and clamp	Check				○				○				○			every 200 hrs	71		
		Replace															every 2 years	78		

RTV900

No.	Items		Indication of Hour Meter													After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
29	Power steering oil line	Check				○				○				○			every 200 hrs	72	
		Replace															every 2 years	78	*4
30	Intake air line	Check				○				○				○			every 200 hrs	74	@
		Replace															every 2 years	78	
31	Brake hose & pipe	Check	◎			○				○				○			every 200 hrs	70	
		Replace															every 4 years	79	*4
32	Tire wear	Check	◎					○						○			every 300 hrs	75	
33	Front axle case oil	Change								○							every 400 hrs	76	
34	Knuckle case oil	Change								○							every 400 hrs	75	
35	Engine valve clearance	Adjust															every 800 hrs	76	*4
36	Fuel injection nozzle Injection pressure	Check															every 1500 hrs	76	*4 @
37	Injection pump	Check															every 3000 hrs	76	*4 @
38	Brake Master cylinder (inner parts)	Replace															every 2 years	78	*4
39	Brake fluid	Change															every 2 years	77	*4
40	Remote hydraulic hose	Replace															every 2 years	78	*4
41	Rear brake cylinder seal	Replace															every 2 years	78	*4
42	Front brake seal	Replace															every 2 years	78	*4
43	Cooling system	Flash															every 2 years	77	
44	Coolant	Change															every 2 years	77	
45	Fuel system	Bleed															Service as required	79	
46	Fuse	Replace																79	
47	Light bulb	Replace																80	
48	Oil cooler net [Hydraulic utility valve equipped model]	Clean																80	

LUBRICANTS

RTV900

No.	Locations	Capacities	Lubricants
1	Fuel	28 L (7.4 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with reserve tank)	4.0 L (4.2 U.S.qts.)	Fresh clean water with anti-freeze
3	Engine crankcase	[Filter exchanged] 3.1 L (3.3 U.S.qts.) [Filter non-exchanged] 2.7 L (2.9 U.S.qts.)	• Engine oil: API Service Classification CD, CE or CF
			Above 25 °C (77 °F) SAE30, SAE10W-30 or 15W-40
			0 to 25 °C (32 to 77 °F) SAE20, SAE10W-30 or 15W-40
			Below 0 °C (32 °F) SAE10W, SAE10W-30
4	Transmission case	10 L (2.6 U.S.gals.)	• KUBOTA UDT or SUPER UDT fluid*
5	Front axle case	0.6 L (0.6 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
6	Knuckle case	Ref. 0.15 L (0.16 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
7	Brake fluid (reservoir and lines)	0.4 L (0.4 U.S.qts.)	KUBOTA DOT3 GENUINE BRAKE FLUID
8	Hydraulic lift oil [Hydraulic dumping equipped model]	8.0 L (8.5 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*
	Hydraulic auxiliary tank oil [Hydraulic utility valve equipped model]	17.0 L (18.0 U.S.qts.)	
9	Power steering oil	5.9 L (6.2 U.S.qts.)	

Greasing	No. of greasing points	Capacity	Type of grease
VHT link	2	Until grease overflows	Multipurpose Grease NLGI-2 OR NLGI-1(GC-LB)
Battery terminal	2	moderate amount	
Cargo lift cylinder pivot	2		
Cargo bed pivot	2		
Parking brake linkage	4		
Range gear shift lever pivot	1		
4WD lever pivot	1		
VHT pressure release	1		
Accelerator wire	---		Oil
Hand throttle cable [Hydraulic utility valve equipped model]	---		

NOTE :

*KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

RTV900

NOTE :

◆ Engine Oil:

Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20°C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10°C.

◆ Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands or grades.

◆ Brake fluid:

Always use KUBOTA **DOT3** GENUINE BRAKE FLUID from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with KUBOTA **DOT3** GENUINE BRAKE FLUID as soon as possible.

- Indicated capacity of water and oil are manufacturer's estimate.

MAINTENANCE T1880,T2080,T2380

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Used hours (Hr)													Ref. page		
			25	50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Belt tension	Adjust	☉	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	38	*2
2	Brake	Check	☉	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	40	*2
3	Greasing	-	☉	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	40	
4	Air cleaner [T2080, T2380]	Precleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hrs	37	*1
		Precleaner element	Replace			○		○		○		○		○		every 100 Hrs	46	
		Air cleaner element	Check		○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	41	*3
		Air cleaner element	Replace			○		○		○		○		○		every 100 Hrs	46	
	Air cleaner [T1880]	Precleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hrs or 2 months	37	*1
		Precleaner element	Replace			○		○		○		○		○		every 100 Hrs or annually	46	
5	Tire	Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	41	
6	Engine oil	Change			○		○		○		○		○		○	every 100 Hrs or annually	42	
7	Engine shroud	Clean			○		○		○		○		○		○	every 100 Hrs	43	
8	Spark plug condition and gap [T2080, T2380]	Check			○		○		○		○		○		○	every 100 Hrs or annually	43	
	Spark plug condition and gap [T1880]	Check					○				○				○	every 200 Hrs or every 2 years	49	
9	Engine oil filter	Replace			○		○		○		○		○		○	every 100 Hrs or annually	47	
10	Fuel line	Check			○		○		○		○		○		○	every 100 Hrs or annually	44	
		Replace														every 2 years	49	*2
11	Fuel filter	Replace			○		○		○		○		○		○	every 100 Hrs or annually	47	@
12	Cable	Check Adjust			○		○		○		○		○		○	every 100 Hrs	44	
13	Battery condition	Check			○		○		○		○		○		○	every 100 Hrs	45	

T1880,T2080,T2380

No.	Items		Used hours (Hr)													Ref. page		
			25	50	100	150	200	250	300	350	400	450	500	550	600	After since		
14	Bendix starter [T1880]	Clean					○				○				○	every 200 Hrs	49	*2
	Solenoid shift starter [T2080, T2380]	Clean											○			every 500 Hrs	49	*2
15	Fuse	Replace														Service as required	50	
16	Light bulb	Replace															50	
17	Mower blade	Check Replace															51	

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 Precleaner element should be cleaned more often in dusty conditions than in normal conditions.
 - *2 Consult your local KUBOTA Dealer for this service.
 - *3 Clean or replace as necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction. Please see the Warranty Statement in detail.

LUBRICANTS AND FUEL

To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

Place	Capacities	Lubricants
Engine crankcase [T2080, T2380]	1.6 to 1.8 L (1.7 to 1.9 U.S.qts.)	<ul style="list-style-type: none"> Engine oil: API service classification SG, SH, SJ or higher Below 0 °C (32 °F): SAE 5W-20 or 5W-30 Above -18 °C (0 °F): SAE 10W-30
Engine crankcase [T1880]	1.5 L (1.6 U.S.qts.)	<ul style="list-style-type: none"> Engine oil: API service classification SG, SH, SJ or higher Below 0 °C (32 °F): SAE 5W-20 or 5W-30 Above 0 °C (32 °F): SAE 10W-30
Hydrostatic transmission	2.7 to 2.75 L (2.85 to 2.9 U.S.qts.)	<ul style="list-style-type: none"> Engine oil: API service classification SL SAE 20W-50
King pins	Until grease over flows	<ul style="list-style-type: none"> Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)
Front axle pivot pin Brake pedal shaft Seat adjuster Speed control pedal shaft Throttle cable PTO clutch cable Mower brake cable Mower link	Moderate Amount	<ul style="list-style-type: none"> Oil or Spray type grease
Fuel tank	15 L (3.9 U.S.gals.)	<ul style="list-style-type: none"> Unleaded gasoline 87 octane or higher

NOTE :

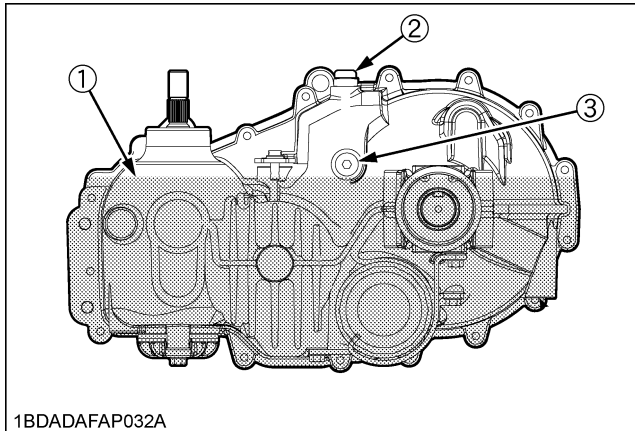
- Engine Oil:
 - Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Indicated capacity of oil are manufacture's estimate.
- Gasohol (up to 10% ethyl alcohol, 90% unleaded) is approved for engine.

■Hydrostatic Transmission

Checking oil level: Be sure to check the oil level when the transmission is cold. Remove the oil level check port.

The correct level should be even with the bottom of the port. If necessary to add oil, remove breather tube and add from top port plug. Be sure to use correct oil which is specified in the table in "LUBRICANTS AND FUEL" in "MAINTENANCE" section.

T1880,T2080,T2380



1BDADAFAP032A

- (1) Oil level
- (2) Top port plug
- (3) Oil level check port

MAINTENANCE ZD18F, ZD21F, ZD25F, ZD28F

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	⊙	○		○		○		○		○		○	every 100Hr	49	
2	Engine oil filter	Replace	⊙			○				○				○	every 200Hr	55	
3	Transmission fluid	Change				⊙				○				○	every 200Hr	56	
4	Transmission oil filter	Replace	⊙			○				○				○	every 200Hr	57	
5	Transmission strainer	Clean				⊙				○				○	every 200Hr	56	
6	Rear axle gear case (RH & LH) fluid	Change				⊙				○				○	every 200Hr	58	
7	Front axle pivot	Adjust		⊙		○				○				○	every 200Hr	60	
8	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	45	
9	Greasing (without mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
10	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
		Change			○			○			○			○	every 150Hr	55	
11	Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	46	*1
		Replace													every 1 year	61	@
12	Battery condition	Check		○		○		○		○		○		○	every 100Hr	53	
13	Fan belt	Adjust		○		○		○		○		○		○	every 100Hr	51	
14	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	51	*2
15	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	50	
		Replace								○					every 400Hr	61	*2 @

ZD18F, ZD21F, ZD25F, ZD28F

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
16	Fuel line	Check		○		○		○		○		○		○	every 100Hr	50	@
		Replace													every 2 years	63	
17	Radiator hose and clamp	Check				○				○				○	every 200Hr	58	*2
		Replace													every 2 years	63	
18	Hydraulic hose	Check				○				○				○	every 200Hr	59	*2
		Replace													every 2 years	63	
19	Intake air line	Check				○				○				○	every 200Hr	61	@
		Replace													every 2 years	63	
20	Motion control lever pivot	Adjust				○				○				○	every 200Hr	59	
21	Fuel injection nozzle injection pressure	Check													every 1500Hr	61	*3 @
22	Injection pump	Check													every 3000Hr	61	*3 @
23	Radiator	Clean													every 1 year	61	
24	Coolant	Change													every 1 year	61	
25	Mower gear box oil seal	Replace													every 2 years	63	*2
26	Fuel system	Bleed													Service as required	66	
27	Fuse	Replace														63	
28	Blade	Replace														64	
29	Mower belt	Replace														66	

IMPORTANT :

- The jobs indicated by ○ must be done initially.
 - *1 This maintenance should be done daily more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS

Place	Capacities			Lubricants	
	ZD18F	ZD21F	ZD25F, ZD28F		
Fuel	30 L (7.9 U.S. gals.)			<ul style="list-style-type: none">• No.2-D diesel fuel• No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
Coolant	2.6 L (2.7 U.S.qts.)		4.0 L (4.23 U.S.qts.)	Fresh clean water with anti-freeze	
Recovery tank	0.25 L (0.26 U.S.qts.)				
Engine crankcase	3.2 L (3.4 U.S.qts.)*	3.5 L (3.7 U.S.qts.)*	3.4 L (3.6 U.S.qts.)*	<ul style="list-style-type: none">• Engine oil: API service Classification CD, CE or CFAbove 25 °C ...SAE30, SAE10W-30 or 10W-40 (77 °F)0 to 25 °CSAE20, SAE10W-30 or 10W-40 (32 to 77 °F)Below 0 °CSAE10W, SAE10W-30 or 10W-40 (32 °F)	
Transmission case	3.2 L (3.4 U.S.qts.)			<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1	
Transmission case with filter & hose	4 L (4.2 U.S.qts.)				
Rear axle gear case (RH &LH)	1.8 L (1.9 U.S.qts.) each			<ul style="list-style-type: none">• KUBOTA UDT or SUPER UDT fluid*1 or SAE 80-90 gear oil	
Mower gear box	0.4 L (0.4 U.S.qts.)			SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points			Capacity	Type of grease
Motion control lever boss	2			Until grease overflows	<ul style="list-style-type: none">• Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB).
Motion control lever	2				
King Pin	2				
Center Pin	1				
Front wheel	2				
Front lift arm	2				
Universal joint	3				
Seat adjuster	2				
Cable (throttle)	2			Moderate amount	<ul style="list-style-type: none">• Oil
[MOWER]				Until grease overflows	<ul style="list-style-type: none">• Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB).
Universal joint	3				
Three spindle shafts	3				
Belt tension pulley	1				
Belt tension pivot	1				
Front Anti Scalp Roller (Pro Deck)	2				
Front Anti Scalp Roller Pivot Boss (Pro Deck)	2				

ZD18F, ZD21F, ZD25F, ZD28F

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

NOTE :

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above.
- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA Original Transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacture's estimate.

MAINTENANCE

ZD221

ENGLISH

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	⊙			○				○				○	every 200Hr	54	
2	Engine oil filter	Replace	⊙			○				○				○	every 200Hr	55	
3	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								⊙					every 400Hr	58	
4	Transmission oil filter [HST]	Replace	⊙			○				○				○	every 200Hr	56	
5	Transmission strainer	Clean								⊙					every 400Hr	59	
6	Motion control lever pivot	Adjust				○				○				○	every 200Hr	57	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	46	
8	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
		Change			○			○			○			○	every 150Hr	54	
9	Greasing (except mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
10	Oiling	Oil	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	48	
11	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	50	*1
		Replace													every 1 year	60	@
	Secondary element	Replace													every 1 year	60	
12	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	50	@
		Replace								○					every 400Hr	59	*2
13	Fuel line	Check		○		○		○		○		○		○	every 100Hr	50	@
		Replace													every 2 years	61	*2
14	Fan belt	Adjust		○		○		○		○		○		○	every 100Hr	51	
15	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	51	*2
16	Battery condition	Check		○		○		○		○		○		○	every 100Hr	52	

ZD221

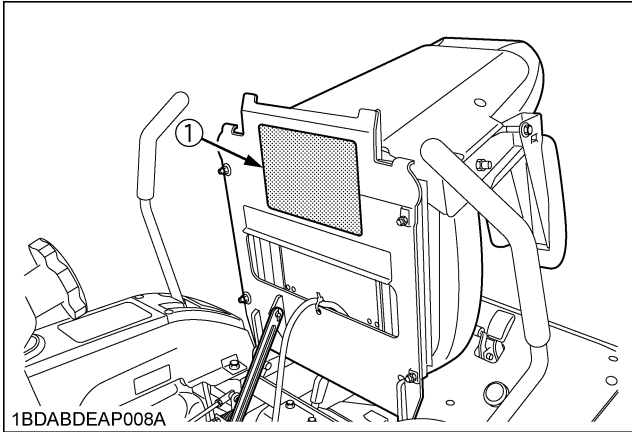
No.	Items		Indication hour meter (Hr)													Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since			
17	Radiator hose and clamp	Check				○				○				○	every 200Hr	55		
		Replace													every 2 years	61	*2	
18	Hydraulic hose	Check				○				○				○	every 200Hr	56		
		Replace													every 2 years	61	*2	
19	Intake air line	Check				○				○				○	every 200Hr	57		@
		Replace													every 2 years	61	*4	
20	Fuel injection nozzle injection pressure	Check													every 1500Hr	60	*3	@
21	Injection pump	Check													every 3000Hr	60	*3	@
22	Radiator	Clean													every 1 year	61		
23	Coolant	Change													every 1 year	60		
24	Mower gear box oil seal	Replace													every 2 years	61	*2	
25	Fuel system	Bleed													Service as required	64		
26	Fuse	Replace														62		
27	Blade	Replace														62		
28	Mower belt	Replace														64		

IMPORTANT :

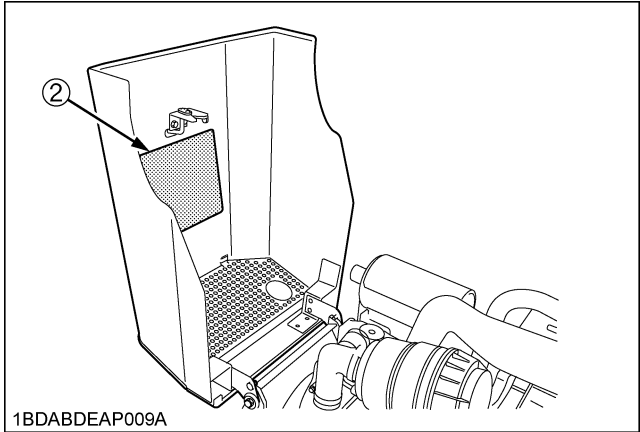
- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

PERIODIC SERVICE CHART LABEL

ZD221



1BDABDEAP008A



1BDABDEAP009A

(1) Part No. K3131-6552-4 (ENGLISH)

PERIODIC SERVICE CHART			
INTERVAL	RECOMMENDED SERVICE ※	INTERVAL	RECOMMENDED SERVICE ※
DAILY	CHECK	50 Hr.	CHECK • Mower gear box oil / Safety device • Throttle cable (2 places) / Motion control lever pivot bushing and contact position (2 places each) • Mower lift cable (1 place)
	CHECK	100 Hr.	GREASE • Front axle and wheel (4 places) / Universal joint (3 places) / Seat adjuster (2 places) / Parking brake lock pedal CHECK • Fuel filter element / Fuel line / Battery condition CLEAN • Air cleaner primary element ★ ADJUST • Fan belt / Parking brake ☆
	CLEAN	150 Hr.	CHANGE • Mower gear box oil CHECK • Radiator hose and clamp / Hydraulic hose / Intake Air Line REFUSE • Engine oil filter / Transmission oil filter
	GREASE	200 Hr.	CHANGE • Engine oil ADJUST • Motion control lever pivot CLEAN • Transmission strainer REFUSE • Fuel filter element
	FIRST 50 Hr. (BREAK-IN) (MUST BE DONE)	REPLACE • Engine & Transmission oil filters (2 places) CHANGE • Engine oil	400 Hr.
FIRST 400 Hr. (MUST BE DONE)	CLEAN • Transmission strainer CHANGE • Transmission & Rear axle gear case (RH & LH) fluid	1500 Hr. ☆ CHECK • Radiator REFUSE • Air cleaner both elements CHANGE • Coolant 2 year REFUSE • Radiator hose and clamp / Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary)	
※ See Operator's Manual in details. ※ Should be serviced by KUBOTA Dealer. ※ Required more often in early conditions.			
Approximate fluid capacities			
ZD221 (D782)			
Engine	3.5L (3.7qt)	Front	13 x 5.0-6 276 KPa (40 psi) Ensure smooth rotation of wheel <Do not over tighten.>
Radiator / Reserve tank	2.1L (2.2qt) (0.25L (0.26qt))	Rear	23x10.5-12 140 KPa (20 psi) 65-75 Nm(48-55 ft · lbs)
Transmission	7.5L (7.9qt.)		
Mower gear box	0.15L (0.16qt.)		

1BDABDEAP033A

(2) Part No. K3131-6553-4 (SPANISH)

TABLA DE SERVICIO PERIÓDICO			
INTERVALO	SERVICIO RECOMENDADO ※	INTERVALO	SERVICIO RECOMENDADO ※
DIARIO	REVISAR	50 hr.	REVISAR • Aceite de la caja de cambios del cortacésped / Dispositivo de seguridad • Cable de estrangulamiento (lugares) / Bujes de pivote de la palanca de control de movimiento / posición de contacto (2 lugares cada uno) • Cable de elevación de la segadora (1 lugar)
	ACEITAR	100 hr.	ACEITAR • Pie frontal / rueda (lugares) / Junta universal (lugares) / Regulador del asiento (lugares) / Peda de bloqueo del freno de aparcamiento ENGRASAR • Elemento de filtro de combustible / Línea de combustible / Condición de la batería
	ENGRASAR	150 hr.	ENGRASAR • Elemento primario del filtro de aire ★ AJUSTAR • Correa del ventilador / Freno de estacionamiento ☆
	REVISAR	200 hr.	REVISAR • Aceite de la caja de cambios del cortacésped CAMBIAR • Aceite de la caja de cambios del cortacésped
PRIMERAS 50 hrs. (Debe hacerse)	REEMPLAZAR	400 hr.	REEMPLAZAR • Filtro de aceite del motor / Filtro de aceite de la transmisión CAMBIAR • Aceite del motor AJUSTAR • Pivote de la palanca de control de movimiento LIMPIAR • Filtro de la transmisión REFUSE • Elemento de filtro de combustible
	CAMBIAR	1500 hr. ☆	REFUSE • Radiador REFUSE • Air cleaner both elements CHANGE • Coolant 2 year REFUSE • Radiator hose and clamp / Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary)
	REFUSE	3000 hr. ☆	REFUSE • Radiator hose and clamp / Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary)
	REFUSE	3000 hr. ☆	REFUSE • Radiator hose and clamp / Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary)
Capacidades de fluido (aproximadas)		Recomendación de presión para neumáticos y par de ajuste	
ZD221 (D782)		Frontal 13x5.0-6 276 KPa (40 psi) Asegure rotación libre de la rueda. <No apriete en exceso.>	
Motor 3.5L (3.70cuartos de galón)		Posterior 23x10.5-12 140 KPa (20 psi) 65-75 Nm(48-55 pies · lbs)	
Radiator / Tanque de reserva 2.1L (2.2cuartos de galón) (0.25L (0.26cuartos de galón))			
Transmisión 7.5L (7.9cuartos de galón)			
Caja de cambios del cortacésped 0.15L (0.16cuartos de galón)			

1BDABDEAP034A

LUBRICANTS, FUEL AND COOLANT

Place	Capacities	Lubricants	
	ZD221		
Fuel	23 L (6.1 U.S. gals.)	<ul style="list-style-type: none"> • No.2-D diesel fuel • No.1-D diesel fuel if temperature is below -10 °C (14 °F) 	
Coolant	2.1 L (2.2 U.S.qts.)	Fresh clean water with anti-freeze	
Recovery tank	0.25 L (0.26 U.S.qts.)		
Engine crankcase	3.5 L (3.7 U.S.qts.)	<ul style="list-style-type: none"> • Engine oil: API service Classification CF or better Above 25 °C ...SAE30, SAE10W-30 or 15W-40 (77 °F) 0 to 25 °CSAE20, SAE10W-30 or 15W-40 (32 to 77 °F) Below 0 °CSAE10W, SAE10W-30 or 15W-40 (32 °F) 	
Transmission case with filter & hose Rear axle gear case (RH & LH)	7.5 L (7.9 U.S.qts.)	<ul style="list-style-type: none"> • KUBOTA UDT or SUPER UDT fluid*1 	
Mower gear box	0.15 L (0.16 U.S.qts.)	SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points	Capacity	Type of grease
Front axle	2	Until grease overflows	<ul style="list-style-type: none"> • Multi purpose EP2 Grease (NLGI Grade No. 2)
Front wheel	2		
Parking brake lock pedal	1		
Front lift arm	2		
Universal joint	3		
Seat adjuster	2		
Cable (throttle cable, mower lift cable)	3	Moderate amount	<ul style="list-style-type: none"> • Oil
Motion control lever pivot bushing, and contact position	6		
[MOWER]		Until grease overflows	<ul style="list-style-type: none"> • Multi purpose EP2 Grease (NLGI Grade No. 2)
Universal joint	3		
Three spindle shafts	3		
Belt tension pulley	1		
Belt tension pivot	1		
Anti scalp roller	1		
Front anti scalp roller pivot boss	2		

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

ZD221

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this machine.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C .

◆ Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE ZD321, 323, 326, 331

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600			
1	Engine oil	Change	⊙			○				○				○	every 200Hr	63	
2	Engine oil filter	Replace	⊙			○				○				○	every 200Hr	64	
3	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								⊙					every 400Hr	67	
4	Transmission oil filter [HST]	Replace	⊙			○				○				○	every 200Hr	65	
5	Hydraulic oil filter	Replace	⊙							○					every 400Hr	68	
6	Motion control lever pivot	Adjust				○				○				○	every 200Hr	66	
7	Front axle pivot	Adjust		⊙		○				○				○	every 200Hr	66	
8	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	54	
9	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	55	
		Change			○			○			○			○	every 150Hr	62	
10	Greasing (except mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	55	
11	Throttle Cable	Oil	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	57	
12	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	58	*1
		Replace													every 1 year	69	@
	Secondary element	Replace													every 1 year	69	
13	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	58	@
		Replace								○					every 400Hr	68	*2
14	Fuel line	Check		○		○		○		○		○		○	every 100Hr	58	@
		Replace													every 2 years	71	*2
15	Fan belt	Adjust		○		○		○		○		○		○	every 100Hr	59	
16	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	59	*2

ZD321, 323, 326, 331

No.	Items		Indication hour meter (Hr)													Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since			
17	Battery condition	Check		○		○		○		○		○		○	every 100Hr	61		
18	Radiator hose and clamp	Check				○				○				○	every 200Hr	64		
		Replace													every 2 years	71	*2	
19	Hydraulic hose	Check				○				○				○	every 200Hr	65		
		Replace													every 2 years	71	*2	
20	Intake air line	Check				○				○				○	every 200Hr	67		@
		Replace													every 2 years	71	*4	
21	Fuel injection nozzle injection pressure	Check													every 1500Hr	68	*3	@
22	Injection pump	Check													every 3000Hr	68	*3	@
23	Radiator	Clean													every 1 year	69		
24	Coolant	Change													every 1 year	69		
25	Mower gear box oil seal	Replace													every 2 years	71	*2	
26	Fuel system	Bleed													Service as required	74		
27	Fuse	Replace														72		
28	Blade	Replace														73		
29	Mower belt	Replace														74		

IMPORTANT :

- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

LUBRICANTS, FUEL AND COOLANT

Place	Capacities				Lubricants	
	ZD321 [N]	ZD323	ZD326 [S, P, RP]	ZD331 [P, RP, LP]		
Fuel	49 L (12.9 U.S. gals.)				● No.2-D diesel fuel ● No.1-D diesel fuel if temperature is below -10 °C (14 °F)	
Coolant	2.7 L (2.85 U.S.qts.)		3.5 L (3.70 U.S.qts.)		Fresh clean water with anti-freeze	
Recovery tank	0.25 L (0.26 U.S.qts.)					
Engine crankcase	3.5 L (3.70 U.S.qts.)*		3.9 L (4.1 U.S.qts.)*	5.7 L (6.0 U.S.qts.)*	● Engine oil: API service Classification CF or better Above 25 °C ...SAE30, SAE10W-30 or 15W-40 (77 °F) 0 to 25 °CSAE20, SAE10W-30 or 15W-40 (32 to 77 °F) Below 0 °CSAE10W, SAE10W-30 or 15W-40 (32 °F)	
Transmission case with filter & hose Rear axle gear case (RH &LH)	12.1 L (12.8 U.S.qts.)				● KUBOTA UDT or SUPER UDT fluid*1	
Mower gear box	0.4 L (0.4 U.S.qts.)				SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points				Capacity	Type of grease
King Pin	2				Until grease overflows	● Multipurpose EP2 Grease (NLGI Grade No.2)
Center Pin	1					
Front wheel	2					
Front lift arm	2					
Motion control lever pivot bushing, and contact position	6					
Universal joint	3					
Seat adjuster	2					
Cable (throttle)	2				Moderate amount	● Oil
[MOWER]					Until grease overflows	● Multipurpose EP2 Grease (NLGI Grade No.2)
Universal joint	3					
Three spindle shafts	3					
Belt tension pulley	1					
Belt tension pivot	1					
Front anti scalp roller pivot boss	2					
Front anti scalp roller	2					

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

ZD321, 323, 326, 331

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN). **If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half)**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○ : Recommendable X : Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN ≥ 10
CF-4	○☆	X	
CG-4	○☆	X	
CH-4	○☆	X	
CI-4	○	X	

☆: Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.

- The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this machine.

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- DO NOT use diesel fuel with sulfur content greater than 1.0%.
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10 °C .

◆ Transmission oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

- Indicated capacities of water and oil are manufacturer's estimate.

MAINTENANCE ZG124E, ZG127E, ZG123S, ZG127S

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

[ZG124E, ZG127E]

No.	Items		Indication hour meter (Hr)														Ref. Page				
			5	25	50	100	150	200	250	300	350	400	450	500	550	600			After since		
1	Engine oil	Change	☉		○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr or every 1 year	42 55	*1		
2	Engine oil filter	Replace			○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr or every 1 year	43 55	*1		
3	Transaxle oil filter	Replace				☉						○					every 400Hr	53			
4	Transaxle fluid	Change				☉						○					every 400Hr	54			
5	Engine start system	Check			○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	39			
6	OPC system	Check			○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	40			
7	Air cleaner	Precleaner element (only ZG124E)	Clean		○	○	○	○	○	○	○	○	○	○	○	○	○	every 25Hr or every 1 year	36	*2	
			Replace				○		○		○		○		○		○	every 100Hr or every 1 year	45 55		
		Air cleaner element	Clean		○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25Hr or every 1 year	37	*2
			Replace				○		○		○		○		○		○		○	every 100Hr or every 1 year	45 55
8	Carbon canister air filter	Check			○	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	41	*3	
		Replace															every 2 years	56			
9	Fuel filter	Check				○		○		○		○		○		○	every 100Hr	47			
		Replace				○		○		○		○		○		○	every 100Hr or every 1 year	47	*3		
10	Fuel line	Check				○		○		○		○		○		○	every 100Hr	47			
		Replace															every 2 years	56	*3		
11	Battery condition	Check				○		○		○		○		○		○	every 100Hr	48			
12	Throttle cable	Adjust				○		○		○		○		○		○	every 100Hr	50			
13	Muffler and Spark Arrester (if equipped)	Check			○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr or every 1 year	44 55			

No.	Items		Indication hour meter (Hr)														Ref. Page		
			5	25	50	100	150	200	250	300	350	400	450	500	550	600			After since
14	Spark plug	Check				○		○		○		○		○		○	every 100Hr	46	
		Replace															every 1 year	55	
15	Hydraulic hose	Check						○				○				○	every 200Hr	52	
		Replace															every 2 years	56	*3
16	Engine breather hose	Replace															every 2 years	56	*4
17	Engine shroud	Clean				○		○		○		○		○		○	every 100Hr or every 1 year	45	
18	Electric clutch	Adjust												○			every 500Hr	54	
19	Combustion chamber	Clean															*5	55	
20	Fuse	Replace															Service as required	56	
21	Blade	Replace																57	
22	Mower belt	Replace																58	
23	Engine valve clearance	Check															every 1 year	56	*4 *6

IMPORTANT :

- The jobs indicated by ◎ must be done initially.

*1 This maintenance should be done every 50 hours or every 1 year if using a standard oil filter.

If using a high-efficiency oil filter, it may be extended to every 100 hours or every 1 year.

A genuine KUBOTA oil filter is a high-efficiency oil filter.

*2 This maintenance should be done daily or more often in dusty condition than in normal conditions.

Suggested cleaning interval is every 25 hours or every 1 year in normal conditions.

*3 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

*4 Consult your local KUBOTA Dealer for this service.

*5 On every after 500 Hr, clean it if necessary.

*6 Not required unless engine performance problems are noted.

[ZG123S, ZG127S]

No.	Items		Indication hour meter (Hr)														Ref. Page			
			25	50	100	150	200	250	300	350	400	450	500	550	600	After since				
1	Engine oil	Change			○		○		○		○		○		○	every 100Hr	44			
2	Engine oil filter	Replace			○		○		○		○		○		○	every 100Hr	51			
3	Transaxle oil filter	Replace			◎						○					every 400Hr	53			
4	Transaxle fluid	Change			◎						○					every 400Hr	54			
5	Engine start system	Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	39			
6	OPC system	Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	40			
7	Air cleaner	Precleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25Hr	36	*1	
			Replace			○		○		○		○		○		○	every 100Hr or every 1 year	45 55		
		Air cleaner element	Clean		○	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	40	
			Replace			○		○		○		○		○		○		○	every 100Hr or every 1 year	45 55
8	Carbon canister air filter	Check		○	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	41	*2	
		Replace															every 2 years	56		
9	Fuel filter	Check			○		○		○		○		○		○	every 100Hr	47	*2		
		Replace			○		○		○		○		○		○	every 100Hr	47			
10	Fuel line	Check			○		○		○		○		○		○	every 100Hr	47	*2		
		Replace														every 2 years	56			
11	Battery condition	Check			○		○		○		○		○		○	every 100Hr	48			
12	Throttle cable	Adjust			○		○		○		○		○		○	every 100Hr	50			
13	Muffler and Spark Arrester (if equipped)	Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr or every 1 year	44 55			
14	Spark plug	Check			○		○		○		○		○		○	every 100Hr	46			
		Replace														every 1 year	55			
15	Hydraulic hose	Check					○				○				○	every 200Hr	52	*2		
		Replace														every 2 years	56			
16	Engine breather hose	Replace														every 2 years	56	*3		
17	Engine shroud	Clean			○		○		○		○		○		○	every 100Hr	45			
18	Electric clutch	Adjust											○			every 500Hr	54			
19	Combustion chamber	Clean														*4	55			
20	Fuse	Replace														Service as required	56			
21	Blade	Replace															57			
22	Mower belt	Replace															58			

IMPORTANT :

- The jobs indicated by ◎ must be done initially.

*1 This maintenance should be done daily or more often in dusty condition than in normal conditions.

Suggested cleaning interval is every 25 hours in normal conditions.

*2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

*3 Consult your local KUBOTA Dealer for this service.

*4 On every after 500 Hr, clean it if necessary.

● GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:

1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work.
See the Emissions Warranty Statement.
2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

LUBRICANTS AND FUEL

Place	Capacities				Lubricants
	ZG124E	ZG123S	ZG127E	ZG127S	
Fuel	16 L (4.2 U.S. gals.)				<ul style="list-style-type: none"> ● Automobile unleaded or regular gasoline ● Unleaded gasoline 87 octane or higher
Engine crankcase	1.8 L (1.9 U.S.qts.)*1				<ul style="list-style-type: none"> ● Engine oil: API service Classification SG, SH, SJ or higher Above 10 °C (50 °F) ...SAE30 Between -18 °C (0 °F) to 38 °C (100 °F) ...SAE10W-30 Below 0 °C (32 °F) ...SAE5W-30
Transmission case with filter, hose and tank (RH & LH)	4.8 L (5.1 U.S.qts.)				<ul style="list-style-type: none"> ● Engine oil: API service Classification SL SAE20W-50

Note *1 Oil amount when the oil level is at the upper level of the oil level gauge.

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Synthetic oil meeting the listed classifications may be used after 50 hours of run time.

◆ Fuel:

- Clean, fresh, unleaded gasoline.
- A minimum of 87 octane / 87AKI (90 RON).
- Gasoline with up to 10% ethanol (gasohol) or up to 15% MTBE (methyl tertiary butyl ether) is acceptable.
- Do not use unapproved gasoline, such as E85. Do not mix oil in gasoline or modify the engine to run on alternate fuels. This will damage the engine components and **void the engine warranty**.
- This engine is certified to operate on gasoline. The emissions control system for this engine is EM (Engine Modifications).
- **High Altitude:**
At altitudes over 5,000 feet (1524 meters), a minimum 85 octane / 85 AKI (89 RON) gasoline is acceptable. To remain emissions compliant, high altitude adjustment is required. Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions.
Operation of the engine at altitudes below 2,500 feet (762 meters) with the high altitude kit is not recommended.
- Indicated capacity of fuel is manufacture's estimate.

MAINTENANCE ZG222, ZG227

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	⊙		○		○		○		○		○		every 100Hr	49	
2	Engine oil filter	Replace	⊙				○				○			○	every 200Hr	58	
3	Transmission oil filter	Replace	⊙			○				○				○	every 200Hr	60	
4	Transmission strainer	Clean				⊙				○				○	every 400Hr	62	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								⊙					every 400Hr	61	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	46	
		Change			○			○			○			○	every 150Hr	57	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	45	
8	Greasing (without mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	46	
9	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	49	*1
		Replace													every 1 year	63	@
	Secondary element	Replace													every 1 year	63	
11	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	52	@
		Replace								○					every 400Hr	62	*2
12	Fuel line	Check		○		○		○		○		○		○	every 100Hr	52	@
		Replace													every 2 years	63	*2
13	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	53	*2
14	Battery condition	Check		○		○		○		○		○		○	every 100Hr	54	
15	Engine shroud panel	Clean		○		○		○		○		○		○	every 100Hr	50	*2
16	Engine oil cooler fins	Clean		○		○		○		○		○		○	every 100Hr	51	*1 *2
17	Fuel filter bowl	Clean		○		○		○		○		○		○	every 100Hr	56	
18	Throttle cable	Adjust		○		○		○		○		○		○	every 100Hr	57	
19	Spark plug condition and gap	Check				○				○				○	every 200Hr	58	
20	Hydraulic hose	Check				○				○				○	every 200Hr	59	
		Replace													every 2 years	63	*2
21	Intake air line	Check				○				○				○	every 200Hr	61	@
		Replace													every 2 years	63	*4
22	Motion control lever pivot	Adjust				○				○				○	every 200Hr	60	
23	Engine shroud	Clean				○				○				○	every 200Hr	61	*3
24	Combustion chamber	Clean										○			every 500Hr	63	*3
25	Valve seats (relap)	Clean										○			every 500Hr	63	*3
26	Valve clearance	Adjust										○			every 500Hr	63	*3

ZG222, ZG227

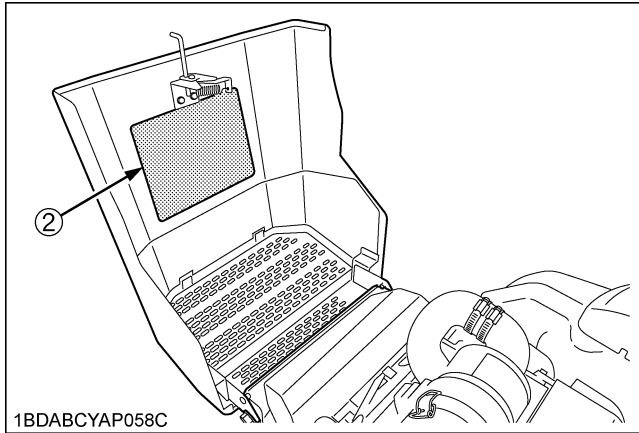
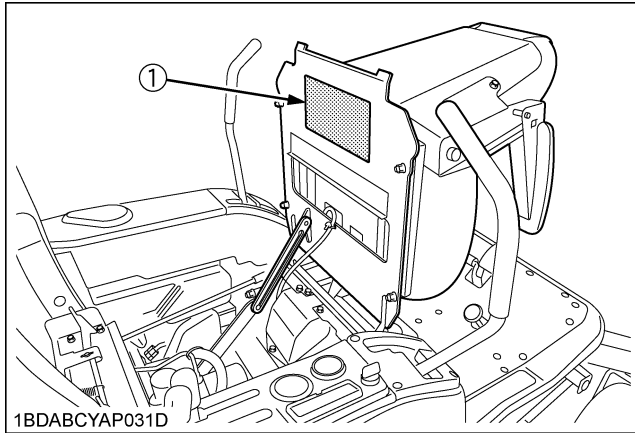
No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
27	Mower gear box oil seal	Replace													every 2 years	63	*2
28	Fuse	Replace													Service as required	64	
29	Blade	Replace														65	
30	Mower belt	Replace														66	
31	Fuel system	Bleed														66	

IMPORTANT :

- The jobs indicated by © must be done initially.
 - *1 This maintenance should be done daily more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related parts by KUBOTA in the U.S.EPA non-road and California small off-road engine emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

PERIODIC SERVICE CHART LABEL

ZG222, ZG227



(1) Part No. K3271-6551-△ (ENGLISH)

PERIODIC SERVICE CHART			
INTERVAL	RECOMMENDED SERVICE ※	INTERVAL	RECOMMENDED SERVICE ※
DAILY	1. Tire pressure, wear, or damage.	E 50 Hr.	• Mower gear box oil / Safety device
	2. Fuel and oil leakage from machine and mower.		• Throttle cable(2 places) / Motion control lever pivot bushing and contact position(2 places each)
	3. Engine and transmission oil and fuel level.		• Mower lift cable(1 place) / Choke cable(2 places)
	4. Damage to machine body, tightness of all bolts, nuts and pins, etc.		• Front axle and wheel(4 places) / Universal joint(3 places) / Seat adjuster(2 places) / Parking brake lock pedal
	5. Mower blades and belt for wear or damage.		• Fuel filter element / Fuel line / Battery condition
	6. Parking brake, speed control levers, all safety switches and easy checker functions.		• Engine shroud panels ★ / Engine oil cooler fins / Fuel filter bowl
	7. Color of the exhaust fumes, abnormal noise and vibrations.		• Engine oil ◆
	• Net screen, air cleaner primary element, mower deck and bottom rubber plate.		• Throttle cable / Parking brake ★
	• Engine cooling area.		• Mower gear box oil
	• Mower (1-point(3 places) / Spindle shaft(0 places) / Belt tension pulley(1 place) / Belt tension pivot(1 place))		• Spark plug condition and gap / Hydraulic hose / Intake Air Line
FIRST 50 Hr. (BREAK-IN) (MUST BE DONE)	CHANGE - Engine oil	V 100 Hr.	• Engine shroud ★ / Transmission strainer
	REPLACE - Engine & Transmission oil filters(2 places)		• Motion control lever pivot
			• Fuel filter element
			• Transmission & Rear axle gear case(RH & LH) fluid
			• Combustion chamber ★ / Valve seats (relap) ★
			• Valve clearance ★
			• Air cleaner both elements ★
			• Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary)
FIRST 200 Hr. (MUST BE DONE)	CLEAN - Transmission strainer	R 400 Hr.	
FIRST 400 Hr. (MUST BE DONE)	CHANGE - Transmission & Rear axle gear case(RH & LH) fluid	Y 1 year	

※ See Operator's Manual in details.
★ Should be serviced by KUBOTA Dealer.
◆ Required more often in dusty conditions.
◆ More frequently under severe conditions.

Approximate fluid capacities.

	ZG222(KGZ270)	ZG227(KGZ270)
Engine	1.8L(1.9qts.)	2.0L(2.1qts.)
Transmission	7.5L(7.9qts.)	7.5L(7.9qts.)
Mower gear box	0.15L(0.16qts.)	0.15L(0.16qts.)

1BDABCYAP083A

(2) Part No. K3271-6552-△ (SPANISH)

TABLA DE SERVICIO PERIÓDICO			
INTERVALO	SERVICIO RECOMENDADO ※	INTERVALO	SERVICIO RECOMENDADO ※
DIARIO	1. Presión, desgaste y daño de los neumáticos.	E 50 hr.	• Aceite de la caja de cambios del cortacéspedes / Dispositivo de seguridad
	2. Escape de combustible y aceite de la máquina y la segadora.		• Cable de estrangulamiento(2lugares) / Bujía de pivote de la palanca de control de movimiento y posición de contacto(2 lugares cada uno)
	3. Aceite del motor, fluido de transmisión y nivel de combustible.		• Cable de elevación de la segadora(lugar) / Cable de estrangulador(2lugares)
	4. Daño a la carrocería de la máquina, ajuste de todos los pernos, tuercas y pines, etc.		• Eje frontal y ruedas(4lugares) / Junta universal(3lugares) / Regulador del asiento(2lugares) / Pedal de bloqueo del freno de aparcamiento
	5. Hojas de corte, desgaste o daño de la correa del cortacéspedes.		• Elemento de filtro de combustible / Línea de combustible / Condición de la batería
	6. Freno de estacionamiento, palancas de control de velocidad, todos los interruptores de seguridad y funciones para una fácil inspección.		• Elemento principal de filtro de aire ★ / Paneles de cobertura del motor ★ / Aletas de refrigeración de aceite del motor / Tapa de filtro del combustible
	7. Color del humo del escape, ruido y vibraciones anormales.		• Cable del motor ◆
	• Pámula del rete, elemento principal de filtro de aire, plataforma de corte y placa de goma inferior.		• Cable de estrangulamiento / Freno de estacionamiento ★
	• Área de refrigeración del motor.		• Aceite de la caja de cambios del cortacéspedes
	• Junta universal del cortacéspedes(3lugares) / Eje de husillo(2lugares) / Pivote de tensión de la correa(lugar) / Pivote de tensión de la correa(lugar)		• Condición de la buja y distancia entre electrodos / Manguera del sistema hidráulico / Línea de toma de aire
PRIMERAS 50 hrs. (Uso inicial) (Debe hacerse)	CHANGE - Aceite del motor	V 100 hr.	• Cubierta del motor ★ / Filtro de la transmisión
	REEMPLAZAR - Filtro de aceite del motor y transmisión (3lugares)		• Filtro de aceite del motor / Filtro del aceite de transmisión
			• Pivote de la palanca de control de movimiento
			• Elemento de filtro de combustible
			• Fluido de la caja de transmisión y cambio del eje posterior (DER. e IZQ.)
			• Cámara de combustión ★ / Asientos de válvula(repulir) ★
			• Juego de válvulas ★
			• Ambos elementos filtro de aire ★
			• Manguera del sistema hidráulico / Línea de combustible / Sello del aceite de la caja de cambios del cortacéspedes / Línea de toma de aire(si es necesario)
PRIMERAS 200 hrs. (Debe hacerse)	REEMPLAZAR - Filtro de la transmisión	R 400 hr.	
PRIMERAS 400 hrs. (Debe hacerse)	CHANGE - Fluido de la caja de transmisión y cambio del eje posterior(DER. e IZQ.)	Y 1 año	

※ Consulte el Manual del Operador para obtener más información.
★ El servicio de mantenimiento debe proporcionarlo un distribuidor de KUBOTA.
◆ Se requiere más seguido en condiciones polvorientas.
◆ Más frecuentemente bajo condiciones severas.

Capacidades de fluido(aproximadas).

	ZG222(KGZ270)	ZG227(KGZ270)
Motor	1.8L (1.9cuartos de galón)	2.0L (2.1cuartos de galón)
Transmisión	7.5L (7.9cuartos de galón)	7.5L (7.9cuartos de galón)
Caja de cambios del cortacéspedes	0.15L (0.16cuartos de galón)	0.15L (0.16cuartos de galón)

Recomendación de presión para neumáticos y par de ajuste.

	Frontal	Posterior
13x5.0-6	278 kPa (40 psi)	278 kPa (40 psi)
23x10.5-12	140 kPa (20 psi)	140 kPa (20 psi)

Asegure rotación libre de la rueda.
No apriete en exceso.

48-56 Nm(35-41.3 pies • lbs)

1BDABCYAP084A

LUBRICANTS

Place	Capacities		Lubricants	
	ZG222 [S]	ZG227		
Fuel	28 L (7.4 U.S. gals.)		<ul style="list-style-type: none">Automobile unleaded or regular gasolineUnleaded gasoline 87 octane or higher	
Engine crankcase	1.8 L (1.9 U.S.qts.)*	2.0 L (2.1 U.S.qts.)	<ul style="list-style-type: none">Engine oil: API service Classification SG, SH, SJ or higher Above -18 °C (0 °F)...SAE10W-30 or 15W-40 Below 0 °C (32 °F).....SAE5W-20 or 5W-30	
Transmission case with filter & hose Rear axle gear case (RH &LH)	7.5 L (7.9 U.S.qts.)		<ul style="list-style-type: none">KUBOTA UDT or SUPER UDT fluid*1	
Mower gear box	0.15 L (0.16 U.S.qts.)		SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points		Capacity	Type of grease
Front axle	2		Until grease overflows	<ul style="list-style-type: none">Multipurpose Grease NLGI-2 or NLGI-1 (GC-LB).
Front wheel	2			
Parking brake lock pedal	1			
Front lift arm	2			
Universal joint	3			
Seat adjuster	2			
Cable (throttle cable, mower lift cable, choke cable)	5		Moderate amount	<ul style="list-style-type: none">Oil
Motion control lever pivot bushing, and contact position	6			
[MOWER]			Until grease overflows	<ul style="list-style-type: none">Multipurpose Grease NLGI-2 or NLGI-1 (GC-LB).
Universal joint	3			
Three spindle shafts	3			
Belt tension pulley	1			
Belt tension pivot	1			
Anti scalp roller	1			
Front anti scalp roller pivot boss	2			

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

ZG222, ZG227

NOTE :

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA original transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacture's estimate.
- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/ alcohol blends are not approved.

MAINTENANCE

ZG222A, ZG227A

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

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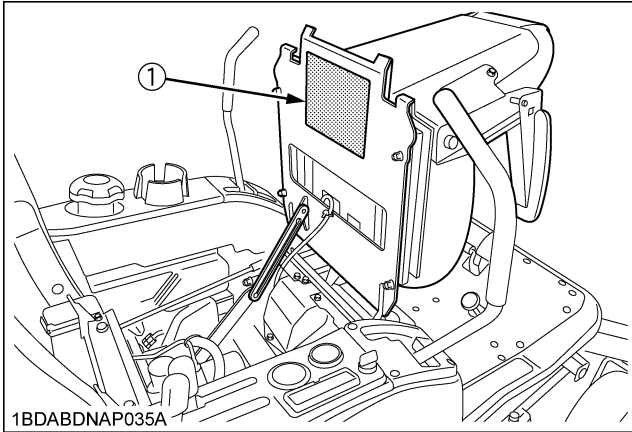
ZG222A, ZG227A

No.	Items		Indication hour meter (Hr)													Ref.	
			50	100	150	200	250	300	350	400	450	500	550	600	After since	Page	
27	Mower gear box oil seal	Replace													every 2 years	66	*2
28	Fuse	Replace													Service as required	67	
29	Blade	Replace														68	
30	Mower belt	Replace														70	
31	Fuel system	Bleed														70	

IMPORTANT :

- The jobs indicated by © must be done initially.
 - *1 This maintenance should be done daily or more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
 - *5 On every after 1000 Hr, clean it if necessary.
- GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:
 1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work.
See the Emissions Warranty Statement.
 2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

PERIODIC SERVICE CHART LABEL

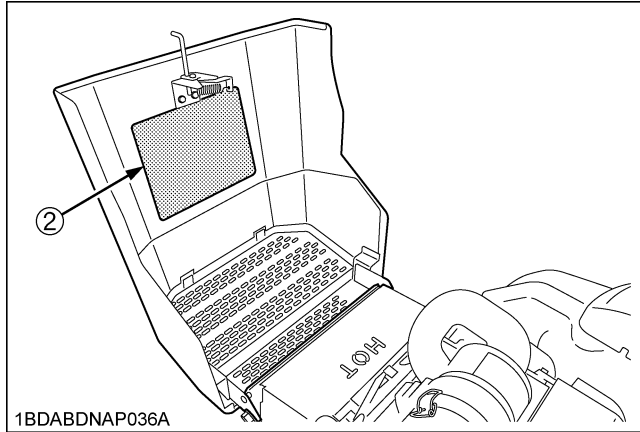


(1) Part No. K3272-6551-△ (ENGLISH)

PERIODIC SERVICE CHART			
INTERVAL	RECOMMENDED SERVICE ※	INTERVAL	RECOMMENDED SERVICE ※
DAILY	CHECK	50 Hr.	<ul style="list-style-type: none"> 1. Tire pressure, wear, or damage. 2. Fuel and oil leakage from machine and mower. 3. Engine and transmission oil and fuel level. 4. Damage to machine body, tightness of all bolts, nuts and pins, etc. 5. Mower blades and belt for wear or damage. 6. Parking brake, speed control levers, all safety switches and error checker functions. 7. Color of the exhaust fumes, abnormal noise and vibrations.
	CLEAN	100 Hr.	<ul style="list-style-type: none"> Net screen, air cleaner primary element, mower deck and bottom dust cover. Engine cooling area.
	GREASE	150 Hr.	<ul style="list-style-type: none"> Mower U-joint (2 places) / Swindle shaft (2 places) / Belt tension roller (1 place) / Belt tension pivot (1 place)
	CHANGE	200 Hr.	<ul style="list-style-type: none"> Engine oil
	REPLACE	400 Hr.	<ul style="list-style-type: none"> Engine & Transmission oil filters (2 places)
	CLEAN	400 Hr.	<ul style="list-style-type: none"> Transmission strainer
	CHANGE	400 Hr.	<ul style="list-style-type: none"> Transmission & Rear axle wear case (oil & LUB fluid)
	CHANGE	400 Hr.	<ul style="list-style-type: none"> Rear axle wear case (oil & LUB fluid)
	CHANGE	400 Hr.	<ul style="list-style-type: none"> Transmission & Rear axle wear case (oil & LUB fluid)
	CHANGE	400 Hr.	<ul style="list-style-type: none"> Transmission & Rear axle wear case (oil & LUB fluid)
※ See Operator's Manual in details.			
※ Should be serviced by KUBOTA Dealer.			
※ Revisit more often in dusty conditions.			
※ More frequently under severe conditions.			
Approximate fluid capacities			
		ZG222A/SA/NGZ770	ZG27A/LA/NGZ770
Engine		1.8L (0.5 U.S. gal.)	2.0L (0.5 U.S. gal.)
Transmission		7.5L (2.0 U.S. gal.)	7.5L (2.0 U.S. gal.)
Mower wear box		0.15L (0.04 U.S. gal.)	0.15L (0.04 U.S. gal.)
Tire pressure and tightening torque recommendation.			
		Front	13x5.0-6 275 KPa (40 psi) Ensure smooth rotation of wheel. <Do not over tighten.>
		Rear	23x10.5-12 140 KPa (20 psi) 65-75 Nm (48-55 ft·lb)

1BDABDNAP073A

ZG222A, ZG227A



(2) Part No. K3272-6552-△ (SPANISH)

TABLA DE SERVICIO PERIÓDICO			
INTERVALO	SERVICIO RECOMENDADO ※	INTERVALO	SERVICIO RECOMENDADO ※
DIARIO	1. Presión, desgaste y daño de los neumáticos.	50 hr.	<ul style="list-style-type: none"> REVISAR Aceite de la caja de cambios del cortacésped / Diagnóstico de seguridad
	2. Espesor de combustible y aceite de la máquina y la sonda.	ACEITAR	Cable de estacionamiento (2 lugares) / Buse de pivote de la palanca de control de movimiento / Posición de contacto / Luces de señal
	3. Aceite del motor, fluido de transmisión y nivel de combustible.	ENGASAR	Cable de elevación de la sonda (2 lugares) / Cable de estacionamiento (2 lugares)
	4. Daño a la carcasa de la máquina, ajuste de todos los tornillos, tuercas y pines, etc.	REVISAR	El eje frontal y rueda (2 lugares) / Junta universal (2 lugares) / Revisión del asiento (2 lugares) / Pedal de bloqueo del freno de estacionamiento
	5. Motos de cortar, desgaste o daño de la correa del cortacésped.	REVISAR	Elemento de filtro de combustible (2 lugares) / Línea de combustible / Condición de la batería / Filtro de aceite de carbono
	6. Freno de estacionamiento, balanzas de control de velocidad, todos los interruptores de seguridad y funciones para una fácil inspección.	ENGASAR	Elemento principal de filtro de aire / Paneles de cobertura del motor / Aletas de refrigeración de aceite del motor / Tapa de filtro del combustible
	7. Color del humo del escape, ruido y vibraciones anormales.	REVISAR	Aceite del motor
	Parrilla del capó, elemento principal de filtro de aire, plataforma de sonda y cubierta inferior contra el polvo.	ACEITAR	Cable de estacionamiento / Freno de estacionamiento
	Área de refrigeración del motor.	ENGASAR	Aceite de la caja de cambios del cortacésped
	Junta universal del cortacésped (2 lugares) / Eje de basculación (2 lugares) / Pivote de tensión de la correa (2 lugares)	ENGASAR	Condición de la buja y distancia entre electrodos / Mezcla del sistema hidráulico / Línea de toma de aire
PRIMERAS 50 hrs. (Después de la puesta a punto)		200 hr.	Cubierta del motor
PRIMERAS 400 hrs. (Después de la puesta a punto)		400 hr.	Cubierta del motor
※ Consulte el Manual del Operador para obtener más información.			
※ El servicio de mantenimiento debe proporcionar un distribuidor de KUBOTA.			
※ Se revisará más seguido en condiciones severas.			
※ Más frecuentemente bajo condiciones severas.			
Capacidades de fluido (aproximadas)			
		ZG22A/SA/NGZ770	ZG27A/LA/NGZ770
Motor		2.0L	2.0L
Transmisión		7.5L	7.5L
Caja de cambios		0.15L	0.15L
Cortacésped		0.15L	0.15L
Recomendación de presión para neumáticos y par de ajuste.			
		Frontal	13x5.0-6 275 KPa (40 psi) Asegure rotación libre de la rueda <No apriete en exceso.>
		Posterior	23x10.5-12 140 KPa (20 psi) 65-75 Nm (48-55 ft·lb)

1BDABDNAP074A

LUBRICANTS AND FUEL

Place	Capacities		Lubricants	
	ZG222SA, ZG222A	ZG227A, ZG227LA		
Fuel	27 L (7.1 U.S. gals.)		<ul style="list-style-type: none">Automobile unleaded or regular gasolineUnleaded gasoline 87 octane or higher	
Engine crankcase	1.8 L (1.9 U.S.qts.)*	2.0 L (2.1 U.S.qts.)	<ul style="list-style-type: none">Engine oil: API service Classification SG, SH, SJ or higher Above -18 °C (0 °F)...SAE10W-30 or 10W-40 Below 0 °C (32 °F).....SAE5W-20 or 5W-30	
Transmission case with filter & hose Rear axle gear case (RH & LH)	7.5 L (7.9 U.S.qts.)		<ul style="list-style-type: none">KUBOTA UDT or SUPER UDT fluid*1	
Mower gear box	0.15 L (0.16 U.S.qts.)		SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points		Capacity	Type of grease
Front axle	2		Until grease overflows	<ul style="list-style-type: none">Multipurpose EP2 Grease (NLGI Grade No.2)
Front wheel	2			
Front lift arm	2			
Parking brake lock pedal	1			
Motion control lever pivot bushing, and contact position	6			
Universal joint	1			
Seat adjuster	2		Moderate amount	<ul style="list-style-type: none">Oil
Cable (throttle cable, mower lift cable, choke cable)	5			
[MOWER]			Until grease overflows	<ul style="list-style-type: none">Multipurpose EP2 Grease (NLGI Grade No.2)
Universal joint	3			
Three spindle shafts	3			
Belt tension pulley	1			
Belt tension pivot	1			
Anti scalp roller	4			

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

ZG222A, ZG227A

NOTE :

- Engine Oil:
Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Transmission oil (KUBOTA SUPER UDT *1):
KUBOTA original transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacture's estimate.
- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/ alcohol blends are not approved.

MAINTENANCE

ZG327

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600			
1	Engine oil	Change	⊙		○		○		○		○		○		every 100Hr	50	
2	Engine oil filter	Replace	⊙				○				○				every 200Hr	58	
3	HST transmission oil filter	Replace	⊙			○				○				○	every 200Hr	60	
4	Hydraulic oil filter	Replace	⊙							○					every 400Hr	63	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								⊙					every 400Hr	62	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
		Change			○			○			○			○	every 150Hr	58	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	46	
8	Greasing (without mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
9	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	48	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	50	*1
		Replace													every 1 year	64	@
	Secondary element	Replace													every 1 year	64	
11	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	53	
		Replace								○					every 400Hr	63	*2
12	Fuel line	Check		○		○		○		○		○		○	every 100Hr	53	
		Replace													every 2 years	64	*2
13	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	53	*2
14	Battery condition	Check		○		○		○		○		○		○	every 100Hr	55	
15	Engine shroud panel	Clean		○		○		○		○		○		○	every 100Hr	51	*2
16	Engine oil cooler fins	Clean		○		○		○		○		○		○	every 100Hr	52	*1 *2

ZG327

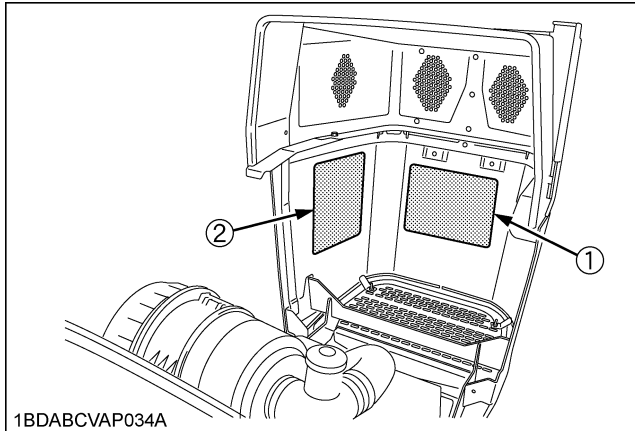
No.	Items		Indication hour meter (Hr)												Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
17	Fuel filter bowl	Clean		○		○		○		○		○		○	every 100Hr	56	
18	Throttle cable	Adjust		○		○		○		○		○		○	every 100Hr	48	
19	Spark plug condition and gap	Check				○				○				○	every 200Hr	59	
20	Hydraulic hose	Check				○				○				○	every 200Hr	60	
		Replace													every 2 years	64	*2
21	Intake air line	Check				○				○				○	every 200Hr	61	@
		Replace													every 2 years	64	
22	Motion control lever pivot	Adjust				○				○				○	every 200Hr	61	
23	Engine shroud	Clean				○				○				○	every 200Hr	61	*3
24	Combustion chamber	Clean										○			every 500Hr	64	*3
25	Valve seats (relap)	Clean										○			every 500Hr	64	*3
26	Valve clearance	Adjust										○			every 500Hr	64	*3
27	Mower gear box oil seal	Replace													every 2 years	64	*2
28	Fuse	Replace													Service as required	65	
29	Blade	Replace														66	
30	Mower belt	Replace														67	
31	Fuel system	Bleed														67	

IMPORTANT :

- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related parts by KUBOTA in the U.S.EPA non-road and California small off-road engine emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

PERIODIC SERVICE CHART LABEL

ZG327



1BDABCVAP034A

(1) Part No. K3281-6552-△ (ENGLISH)

PERIODIC SERVICE CHART									
INTERVAL		RECOMMENDED SERVICE ※		INTERVAL	RECOMMENDED SERVICE ※				
DAILY	CHECK	1. Tire pressure, wear, or damage.	E	50 Hr.	DEOIL	• Mower gear box oil / Safety device			
		2. Fuel and oil leakage from machine and mower.			OL	• Throttle cable(2 places) / Motion control lever pivot bushing and control position(2 places) etc. / Choke cable(2 places)			
		3. Engine and transmission oil and fuel level.			GREASE	• Front axle and wheel(4 places) / Universal joint(3 places) / Seat adjuster(2 places) / Parking brake lock pedal			
		4. Damage to machine body, tightness of all bolts, nuts and pins, etc.			DEOIL	• Fuel filter element / Fuel line / Battery condition			
		5. Mower blades and belt for wear or damage.			GEAR	• Engine oil / Fuel line ※ / Engine oil cooler fins / Fuel filter element			
	CLEAN	6. Parking brake, speed control levers, all safety switches and easy checker functions.	V	100 Hr.	CHANGE	• Engine oil			
		7. Color of the exhaust fumes, abnormal noise and vibrations.			AJJUST	• Throttle cable / Parking brake ※			
		Bonnet screen, air cleaner primary element, mower deck and bottom dust cover.			CHANGE	• Mower gear box oil			
		Fuel drain hose.			• Spark plug condition and gap / Hydraulic hose / Intake Air Line				
		Mower U-joint(3 places) / Spindle shaft(3 places) / Belt tension pulley(1 place) / Belt tension pivot(1 place)			200 Hr.	GEAR	• Engine shield ※		
	GREASE	• Engine oil	E	150 Hr.	CHANGE	• Engine oil / HST Transmission oil filter			
FIRST 50 Hr. (BREAK-IN, MUST BE DONE)	REFILL	• Engine & Transmission oil filters (3 places)			AJJUST	• Motion control lever / Piston			
FIRST 400 Hr. (MUST BE DONE)	CHANGE	• Transmission & Rear axle gear case(RH & LH) fluid			GREASE	• Front air inlet pin(2 places)			
※ See Operator's Manual in details.					Y	400 Hr.	REFILL	• Fuel filter element / Hydraulic oil filter	
☆ Should be serviced by KUBOTA Dealer.							CHANGE	• Engine oil / Throttle cable(2 places) / LH fluid	
◆ Required more often in dusty conditions.							GEAR	• Compression chamber ※ / Valve seats (relax) pin(3 places)	
◆ More frequently under severe conditions.							AJJUST	• Valve clearance ※	
Approximate fluid capacities.					Y	500 Hr.	REFILL	• Air cleaner both elements ※	
1 year				REFILL			• Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary).		
2 year									
Approximate fluid capacities.					Tire pressure and tightening torque recommendation.				
Front					Pressure 15 to 6.5 (60 PSI)			NO NEED	Ensure smooth rotation of wheel<Do not over tighten>
Rear					25x12-0-12			120 PSI (7 ps)	108.5-130.2 (100-9.86 or 1 ft. lbs)

1BDABCVAP093A

(2) Part No. K3281-6553-△ (SPANISH)

TABLA DE SERVICIO PERIÓDICO								
INTERVALO	SERVICIO RECOMENDADO ※		INTERVALO	SERVICIO RECOMENDADO ※				
DIARIO	REVISAR	1. Presión, desgaste y daño de los neumáticos.	50 hr.	REVISAR	• Aceite de la caja de cambios del cortacésped / Dispositivo de seguridad.			
		2. Escape de combustible y aceite de la máquina y la segadora.		REVISAR	• Cable de estrangulamiento(2 lugares)/Buje de pivote de la palanca de control de velocidad y posición de control de la palanca de la segadora(2 lugares) / Cable de estrangulador(2 lugares).			
		3. Aceite del motor, fluido de transmisión y nivel de combustible.		REVISAR	• Eje frontal y rueda(4 lugares) / Junta universal(3 lugares) / Regulador del asiento(2 lugares) / Pivote de bloqueo del freno de agarbarramiento.			
		4. Daño a la carrocería de la máquina, ajuste de todos los pernos, tuercas y pines, etc.		REVISAR	• Elemento de filtro de combustible / Línea de combustible / Condición de la bota y distancia entre electrodos.			
		5. Hojas de corte, desgaste o daño de la correa del cortacésped.		REVISAR	• Perno de cojinetura del motor / • Alas de refrigeración de aceite del motor / Taza de filtro del combustible.			
	LIMPIAR	6. Freno de estacionamiento, palancas de control de velocidad, todos los interruptores de seguridad y funciones para una fácil inspección.	100 hr.	REVISAR	• Cable de estrangulamiento / Freno de estacionamiento de aceite del motor.			
		7. Color del humo del escape, ruido y vibraciones anormales.		REVISAR	• Aceite de la caja de cambios del cortacésped.			
		ENGRASAR		• Parrilla del capo, elemento principal de filtro de aire, plataforma de segadora y cubierta inferior contra el polvo.	150 hr.	REVISAR	• Condición de la bota y distancia entre electrodos / Manguera del sistema hidráulico / Línea de toma de aire.	
				• Manguera de vaciado de combustible.		REVISAR	• Cubierta del motor / REEMPLAZAR	• Filtro de aceite del motor / Filtro de aceite de la transmisión(HST).
				• Junta universal del cortacésped(3 lugares) / Eje de buje(3 lugares) / Pivote de tensión de la correa(1 lugar) / Pivote de tensión de la correa(1 lugar)		REVISAR	• Pivote de la palanca de control de movimiento.	
	PRIMERAS 50 hrs. (Uso inicial) (Debe hacerse)	CAMBIA	• Aceite del motor	400 hr.	REEMPLAZAR	• Asador del brazo de levantamiento delantero(2 lugares).		
PRIMERAS 400 hrs. (Debe hacerse)	CAMBIA	• Filtros de aceite del motor y transmisión (3 lugares)	REEMPLAZAR		• Elemento de filtro de combustible / Filtro de la caja hidráulica.			
		• Fluido de la caja de transmisión y cambio del eje posterior(DER. e IZQ.)	REEMPLAZAR	• Fluido de la caja de transmisión y cambio del eje posterior(DER. e IZQ.)				
※ Consulte el Manual del Operador para obtener más información.								
☆ El servicio de mantenimiento debe proporcionarlo un distribuidor de KUBOTA.								
◆ Se requiere más seguido en condiciones polvorosas.								
◆ Más frecuentemente bajo condiciones severas.								
Capacidades de fluido(aproximadas).								
ZG327(KG2770)								
Motor	2.0 (2.1 cuartos de galón)							
Transmisión	12.1L (12.8 cuartos de galón)							
Caja de cambios del cortacésped	0.4L (0.42 cuartos de galón)							
Recomendación de presión para neumáticos y par de ajuste.								
Frontal	15x 6.0-6 (No pinchada nada)	Ninguna necesidad	Angare reducción libre de la rueda libre por exceso.					
Posterior	25x12.0-12	120 KPa (17 psi)	108.5-130.2 N/m80-96.0 psi - lbs)					

1BDABCVAP094A

LUBRICANTS

Place	Capacities	Lubricants	
	ZG327P		
Fuel	49 L (12.9 U.S. gals.)	<ul style="list-style-type: none"> Automobile unleaded or regular gasoline Unleaded gasoline 87 octane or higher 	
Engine crankcase	2.0 L (2.1 U.S.qts.)*	<ul style="list-style-type: none"> Engine oil: API service Classification SG, SH, SJ or higher Above -18 °C (0 °F) ...SAE10W-30 or 15W-40 Below 0 °C (32 °F)SAE5W-20 or 5W-30 	
Transmission case with filter & hose Rear axle gear case (RH & LH)	12.1 L (12.8 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA UDT or SUPER UDT fluid*1 	
Mower gear box	0.4 L (0.4 U.S.qts.)	SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points	Capacity	Type of grease
Front axle	2	Until grease overflows	<ul style="list-style-type: none"> Multipurpose Grease NLGI-2 or NLGI-1 (GC-LB).
Front wheel	2		
Parking brake lock pedal	1		
Front lift arm	2		
Universal joint	3		
Seat adjuster	2		
Cable (throttle)	2	Moderate amount	<ul style="list-style-type: none"> Oil
Cable (choke)	2		
Motion control lever pivot bushing, and contact position	6	Until grease overflows	<ul style="list-style-type: none"> Multipurpose Grease NLGI-2 or NLGI-1 (GC-LB).
[MOWER]			
Universal joint	3		
Three spindle shafts	3		
Belt tension pulley	1		
Belt tension pivot	1		
Anti scalp roller	1		
Front anti scalp roller pivot boss	2		

Note * Oil amount when the oil level is at the upper level of the oil level gauge.

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

NOTE :

- Engine Oil:**
Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Transmission oil:**
KUBOTA original transmission hydraulic fluid
The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of water and oil are manufacture's estimate.
- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/ alcohol blends are not approved.

MAINTENANCE

ZG327A

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)													Ref. Page	
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	☉		○		○		○		○		○		every 100Hr	53	
2	Engine oil filter	Replace	☉				○				○				every 200Hr	64	
3	HST transmission oil filter	Replace	☉			○				○				○	every 200Hr	66	
4	Hydraulic oil filter	Replace	☉							○					every 400Hr	69	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								☉					every 400Hr	68	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	50	
		Change			○			○			○			○	every 150Hr	63	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	49	
8	Greasing (except mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	50	
9	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	52	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	53	*1
		Replace													every 1 year	70	
	Secondary element	Replace													every 1 year	70	
11	Carbon canister air filter	Check		○		○		○		○		○		○	every 100Hr	63	*2
		Replace													every 2 years	70	
12	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	56	*2
		Replace								○					every 400Hr	69	
13	Fuel line	Check		○		○		○		○		○		○	every 100Hr	56	*2
		Replace													every 2 years	70	
14	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	59	*2
15	Battery condition	Check		○		○		○		○		○		○	every 100Hr	61	
16	Engine shroud panel	Clean		○		○		○		○		○		○	every 100Hr	54	*2
17	Engine oil cooler fins	Clean		○		○		○		○		○		○	every 100Hr	55	*1 *2

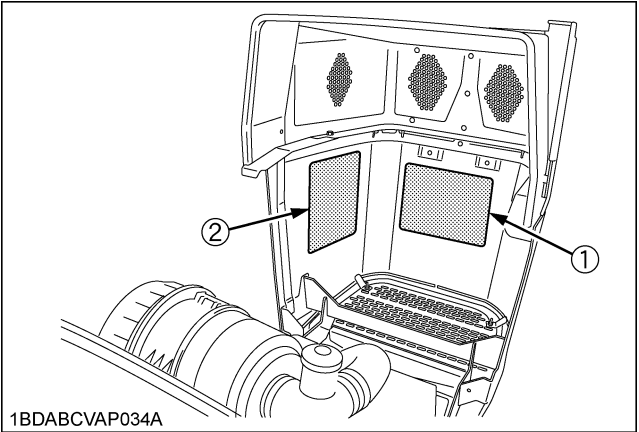
ZG327A

No.	Items		Indication hour meter (Hr)												Ref. Page	
			50	100	150	200	250	300	350	400	450	500	550	600	After since	
18	Fuel filter bowl	Clean		○		○		○		○		○		○	every 100Hr	58
19	Throttle cable	Adjust		○		○		○		○		○		○	every 100Hr	52
20	Spark plug condition and gap	Check				○				○				○	every 200Hr	64
21	Hydraulic hose	Check				○				○				○	every 200Hr	65
		Replace													every 2 years	70 *2
22	Intake air line	Check				○				○				○	every 200Hr	67
		Replace													every 2 years	70 *4
23	Motion control lever pivot	Adjust				○				○				○	every 200Hr	67
24	Engine shroud	Clean				○				○				○	every 200Hr	67 *3
25	Valve clearance	Adjust										○			every 500Hr	70
26	Combustion chamber	Clean													*5	70
27	Mower gear box oil seal	Replace													every 2 years	70 *2
28	Fuse	Replace													Service as required	71
29	Blade	Replace														72
30	Mower belt	Replace														73
31	Fuel system	Bleed														73

IMPORTANT :

- The jobs indicated by ◎ must be done initially.
 - *1 This maintenance should be done daily or more often in dusty condition than in normal conditions.
Suggested cleaning interval is every 100 hours in normal conditions.
 - *2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.
 - *3 Consult your local KUBOTA Dealer for this service.
 - *4 Replace only if necessary.
 - *5 On every after 1000 Hr, clean it if necessary.
- GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:
 - Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work.
See the Emissions Warranty Statement.
 - To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

PERIODIC SERVICE CHART LABEL



ZG327A

(1) Part No. K3282-6552-△ (ENGLISH)

PERIODIC SERVICE CHART			
INTERVAL	RECOMMENDED SERVICE ※	INTERVAL	RECOMMENDED SERVICE ※
DAILY	CHECK	1. Tire pressure, wear, or damage.	
	CHECK	2. Fuel and oil leakage from machine and mower.	
	CHECK	3. Engine and transmission oil and fuel level.	
	CHECK	4. Damage to machine body, tightness of all bolts, nuts and pins, etc.	
	CHECK	5. Mower blades and belt for wear or damage.	
	CHECK	6. Parking brake, speed control levers, all safety switches and rear checker functions.	
	CHECK	7. Color of the exhaust fumes, abnormal noise and vibrations.	
	CLEAN	Bonnet screen, air cleaner primary element, mower deck and bottom dust cover.	
	GREASE	Mower U-joint (3 placed) / Solid rear shaft (3 placed) / Belt tension pivot (3 placed)	
	REPLACE	Engine & HST Transmission oil filters (2 placed)	
※ : See Operator's Manual in details.			
△ : Should be serviced by KUBOTA Dealer.			
● : Required more often in dusty conditions.			
◆ : More frequently under severe conditions.			
Approximate fluid capacities.			
ZG327A WG2700			
Engine			
Transmission			
Mower rear box			

1BDABCVAP112A

(2) Part No. K3282-6553-△ (SPANISH)

TABLA DE SERVICIO PERIÓDICO			
INTERVALO	SERVICIO RECOMENDADO ※	INTERVALO	SERVICIO RECOMENDADO ※
DIARIO	REVISAR	1. Presión, desgaste y daño de los neumáticos.	Revisar
	ACEITAR	2. Espesor de combustible y aceite de la cámara y la sonda.	ACEITAR
	ACEITAR	3. Aceite del motor, fluido de transmisión y nivel de combustible.	ACEITAR
	ACEITAR	4. Daño a la carcasa de la máquina, ajuste de todos los pernos, tuercas y pines, etc.	ACEITAR
	ACEITAR	5. Hojas de cortar, desgaste o daño de la correa del cortacésped.	ACEITAR
	ACEITAR	6. Freno de estacionamiento, balanzas de control de velocidad, todos los interruptores de seguridad y funciones para una fácil inspección.	ACEITAR
	ACEITAR	7. Color del humo del escape, ruido y vibraciones anormales.	ACEITAR
	ACEITAR	8. Filtro de aire, plataforma de operador y cubierta inferior contra el polvo.	ACEITAR
	ACEITAR	9. Junta universal del cortacésped (3 colocados) / Eje de husillo (3 colocados) / Pines de tensión de la correa (3 colocados) / Pines de tensión de la correa (3 colocados)	ACEITAR
	ACEITAR	10. Filtro de aceite del motor y filtro de aceite de la transmisión (HST) (2 colocados)	ACEITAR
※ : Consulte el Manual del Operador para obtener más información.			
△ : El servicio de mantenimiento debe proporcionarlo un distribuidor de KUBOTA.			
● : Se requiere más seguido en condiciones sucias.			
◆ : Más frecuentemente bajo condiciones severas.			
Capacidades de fluido (aproximadas).			
ZG327A WG2700			
Motor			
Transmisión			
Caja de cambios del cortacésped			

1BDABCVAP113A

LUBRICANTS AND FUEL

Place	Capacities	Lubricants	
	ZG327PA, ZG327RPA		
Fuel	49 L (12.9 U.S. gals.)	<ul style="list-style-type: none"> Automobile unleaded or regular gasoline Unleaded gasoline 87 octane or higher 	
Engine crankcase	2.0 L (2.1 U.S.qts.)*1	<ul style="list-style-type: none"> Engine oil: API service Classification SG, SH, SJ or higher Above -18 °C (0 °F) ...SAE10W-30 or 10W-40 Below 0 °C (32 °F)SAE5W-20 or 5W-30 	
Transmission case with filter & hose Rear axle gear case (RH & LH)	12.1 L (12.8 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA UDT or SUPER UDT fluid*2 	
Mower gear box	0.4 L (0.4 U.S.qts.)	SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points	Capacity	Type of grease
Front axle	2	Until grease overflows	<ul style="list-style-type: none"> Multipurpose EP2 Grease (NLGI Grade No.2)
Front wheel	2		
Parking brake lock pedal	1		
Front lift arm	2		
Motion control lever pivot bushing, and contact position	6		
Universal joint	3		
Seat adjuster	2		
Cable (throttle)	2	Moderate amount	<ul style="list-style-type: none"> Oil
Cable (choke)	2		
[MOWER]		Until grease overflows	<ul style="list-style-type: none"> Multipurpose EP2 Grease (NLGI Grade No.2)
Universal joint	3		
Three spindle shafts	3		
Belt tension pulley	1		
Belt tension pivot	1		
Front anti scalp roller pivot boss	2		
Front anti scalp roller	2		

Note *1 Oil amount when the oil level is at the upper level of the oil level gauge.

*2 KUBOTA original transmission hydraulic fluid

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

ZG327A

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Indicated capacity of oil is manufacture's estimate.

◆ Transmission oil:

- The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of oil is manufacture's estimate.

◆ Fuel:

- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/alcohol blends are not approved.
- Indicated capacity of fuel is manufacture's estimate.

MAINTENANCE

ZG332

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

No.	Items		Indication hour meter (Hr)													Ref. Page	
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	☉		○		○		○		○		○		every 100Hr	55	
2	Engine oil filter	Replace	☉				○				○				every 200Hr	65	
3	HST transmission oil filter	Replace	☉			○				○				○	every 200Hr	67	
4	Hydraulic oil filter	Replace								☉					every 400Hr	69	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								☉					every 400Hr	68	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	51	
		Change			○			○			○			○	every 150Hr	64	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	50	
8	Greasing (except mower)	---	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	52	
9	Oiling	---	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	54	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	56	*1
		Replace													every 1 year	70	
	Secondary element	Replace													every 1 year	70	
11	Carbon canister air filter	Check		○		○		○		○		○		○	every 100Hr	63	*2
		Replace													every 2 years	73	
12	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	57	*2
		Replace								○					every 400Hr	70	
13	Fuel line	Check		○		○		○		○		○		○	every 100Hr	57	*2
		Replace													every 2 years	73	
14	Fan belt	Adjust		○		○		○		○		○		○	every 100Hr	59	
15	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	60	*2
16	Battery condition	Check		○		○		○		○		○		○	every 100Hr	61	

No.	Items		Indication hour meter (Hr)													Ref. Page	
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
17	Radiator hose and clamp	Check				○				○				○	every 200Hr	65	
		Replace													every 2 years	73	*2
18	Throttle cable	Adjust		○		○		○		○		○		○	every 100Hr	62	
19	Spark plug condition and gap	Check		○		○		○		○		○		○	every 100Hr	55	
20	Hydraulic hose	Check				○				○				○	every 200Hr	66	
		Replace													every 2 years	73	*2
21	Intake air line	Check				○				○				○	every 200Hr	68	
		Replace													every 2 years	73	*4
22	Engine breather hose	Replace													every 2 years	73	*3
23	Motion control lever pivot	Adjust				○				○				○	every 200Hr	67	
24	Engine valve clearance	Adjust										○			every 500Hr	70	
25	Combustion chamber	Clean													*5	70	
26	Radiator	Clean													every 1 year	71	
27	Coolant	Change													every 1 year	71	
28	Mower gear box oil seal	Replace													every 2 years	73	*2
29	One way valve	Replace													every 2 years	73	
30	Fuse	Replace													Service as required	73	
31	Blade	Replace														74	
32	Mower belt	Replace														76	
33	Fuel system	Bleed														76	

IMPORTANT :

- The jobs indicated by ◎ must be done initially.

*1 This maintenance should be done daily or more often in dusty condition than in normal conditions.

Suggested cleaning interval is every 100 hours in normal conditions.

*2 These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

*3 Consult your local KUBOTA Dealer for this service.

*4 Replace only if necessary.

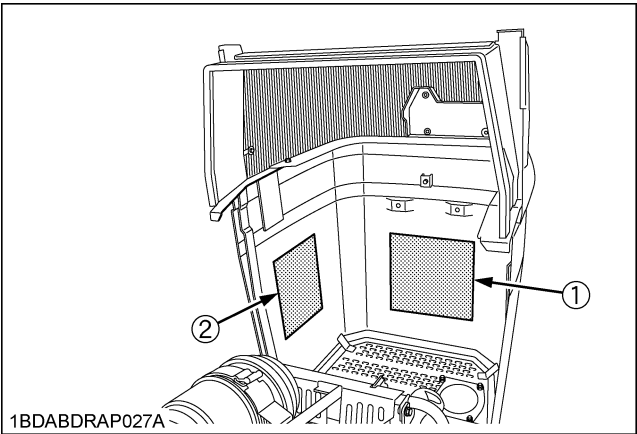
*5 On every after 1000 Hr, clean it if necessary.

- GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:

1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work. See the Emissions Warranty Statement.

2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

PERIODIC SERVICE CHART LABEL



(1) Part No. K3241-6552-△ (ENGLISH)

PERIODIC SERVICE CHART							
INTERVAL		RECOMMENDED SERVICE ※	INTERVAL		RECOMMENDED SERVICE ※		
DAILY		CHECK	1	Tire pressure, wear or damage	E	CHECK	Mower gear box oil / Safety device
		2	Oil and water leakage from machine and mower	Oil		*Throttle cable 2 places / Choke cable 2 places	
		3	Engine and transmission oil, radiator and recovery tank coolant and fuel level	50 Hr.		*Front axle and wheel 4 places / Universal joint 3 places / Front 1/8 in. or 2 places / Mallet control lever pivot bushing and cotter position 2 places each / Seat adjuster 2 places / Parking brake lock pedal	
		4	Damage to machine body, tightness of all bolts, nuts and pins, etc.	GREASE			
		5	Mower blades and belt for wear or damage	100 Hr.		CHECK	*Fuel filter element 3 places / Fuel line / Battery condition / Filter (Carbon canister) / Spark plug condition and gap
		6	Parking brake, speed control levers, all safety switches and emergency functions	CLEAN		*Air cleaner primary element ★	
		7	Color of the exhaust fumes, abnormal noise and vibrations	ADJUST		*Engine oil ◆	
		CLEAN	*Radiator screen and core, panel screen, air cleaner primary element and mower deck	ADJUST		*Fan belt / Throttle cable / Parking brake ⚡	
		GREASE	*Mower Universal (3 places) / Governor shaft (3 places) / Belt tension pulley (1 place) / Belt tension pivot (1 place) / 2 axle	150 Hr.		CHANGE	Mower gear box oil
		FIRST 50 Hr. (BROW-IN) MUST BE DONE	REPLACE	Engine oil		CHECK	*Radiator hose and clamp / Hydraulic hose / Intake Air Line
FIRST 400 Hr. (MUST BE DONE)	REPLACE	Engine oil	REPLACE	Engine oil filter / HST transmission oil filter	REPLACE	Engine oil filter / HST transmission oil filter	
	CHANGE	Hydraulic oil filter	REPLACE	Mallet control lever pivot	REPLACE	Fuel filter element 3 places / Hydraulic oil filter	
	CHANGE	Transmission & Rear axle gear case (RH & LH) fluid	ADJUST	*Transmission & Rear axle gear case (RH & LH) fluid	ADJUST	*Valve clearance ⚡	
※ See Operator's Manual in detail		AFTER 1000 Hr.		CLEAN	Combustion chamber ⚡		
○ Should be serviced by KUBOTA Dealer		1 year		CLEAN	*Radiator		
★ More frequently under severe conditions		2 year		REPLACE	*Air cleaner both element ★		
Approximate fluid capacities		Tire pressure and tightening torque recommendation		REPLACE	*Coolant		
				REPLACE	*Radiator hose and clamp / Hydraulic hose / Fuel line / Mower gear box oil seal / Intake Air Line (if necessary) / Valve 2 places / Filter (Carbon canister) / Engine breather hose		
				Front 15x 6.0-R16 (NO FLAT) NO NEED Ensure smooth rotation of wheel. ⚡ Do not over tighten >			
				Rear 25x12-12 120 KPa (17 psi) 108.5-130.2 Nm (80.0-96.0 ft.-lbs)			

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(2) Part No. K3241-6553-△ (SPANISH)

TABLA DE SERVICIO PERIODICO				
INTERVALO	SERVICIO RECOMENDADO ※	INTERVALO	SERVICIO RECOMENDADO ※	
DIARIO	1. Presión, desgaste y daño de los neumáticos.	50 hr.	REVISAR	Ajuste de la caja de cambios del cortacésped / Dispositivo de seguridad
	2. Fugas de aceite y agua de la máquina y del cortacésped.		ACEITAR	Cable de estrangulamiento (2 lugares) / Cable de estrangulador (2 lugares)
	3. Aceite del motor, fluido de transmisión, refrigerante del tanque de recuperación y nivel de combustible.		ENGASAR	Eje frontal y rueda (4 lugares) / Junta universal (3 lugares) / Pasador del brazo de levantamiento delantero (2 lugares) / Suje de pivote de la palanca de control de movimiento y posición de contacto (2 lugares cada uno) / Regulador del asiento (2 lugares) / Pedal de bloqueo del freno de aparcamiento
	4. Daño a la carcasa de la máquina, ajuste de todos los pernos, tuercas y pines, etc.	100 hr.	REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	5. Hojas de corte, desgaste o daño a la correa del cortacésped.		REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	6. Freno de estacionamiento, palanca de control de velocidad, todos los interruptores de seguridad y funciones para una fácil inspección.		REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	7. Color del humo del escape, ruido y vibraciones anormales.	150 hr.	REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	8. Filtro del radiador, control del radiador, filtro del panel y elemento primario del filtro de aire.		REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	9. Junta universal del cortacésped (3 lugares) / Eje de buje (3 lugares) / Pivote de tensión de la correa (3 lugares) / Pivote de tensión de la correa (3 lugares)		REVISAR	Elemento de filtro de combustible (3 lugares) / Línea de combustible / Corriente de la batería / Filtro (depósito de carbono) / Condición de la bujía y distancia entre electrodos
	PRIMERAS 50 hrs. (Una vez)	REEMPLAZAR	200 hr.	REEMPLAZAR
REEMPLAZAR		REEMPLAZAR		Filtro de aceite del motor / Filtro de aceite del motor y transmisión (HST) (3 lugares)
REEMPLAZAR		REEMPLAZAR		Filtro de aceite del motor / Filtro de aceite del motor y transmisión (HST) (3 lugares)
PRIMERAS 400 hrs. (Una vez)	REEMPLAZAR	400 hr.	REEMPLAZAR	Filtro de aceite del motor / Filtro de aceite del motor y transmisión (HST) (3 lugares)
	REEMPLAZAR		REEMPLAZAR	Filtro de aceite del motor / Filtro de aceite del motor y transmisión (HST) (3 lugares)
	REEMPLAZAR		REEMPLAZAR	Filtro de aceite del motor / Filtro de aceite del motor y transmisión (HST) (3 lugares)
3 Consulte el Manual del Operador para obtener más información.		Después de 1000hr.	REVISAR	Junta de válvulas (3)
4 Si servicio de mantenimiento debe proporcionar la distribución de HUBBARD.			REEMPLAZAR	Cámara de combustible (3 lugares)
5 No frecuentemente bajo condiciones severas.			REEMPLAZAR	Rodador
Capacidades de fluido (aproximadas)		1 año	REEMPLAZAR	Amorres elementos (filtro de aire) / Cambiar / Refrigerante
		2 años	REEMPLAZAR	Manguera y abrasadora del radiador / Manguera del sistema hidráulico / Línea de combustible / Salvo del ajuste de la caja de cambios del cortacésped / Línea de fondo de arbol de transmisión / Válvula (3 lugares) / Filtro (depósito de carbono) / Manguera de vapor desde el motor
		Recomendación de presión para neumáticos y par de ajuste		
		Frontal 15x 6.0-6 Ninguna necesidad. Asegure rotación libre de la rueda. <No apriete en exceso.>		
		Posterior 25x12-12 120 KPa (17 psi) 108.5-130.2 Nm (80.0-96.0 ft.-lbs)		

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LUBRICANTS AND FUEL

Place	Capacities	Lubricants	
	ZG332P, ZG332LP		
Fuel	49 L (12.9 U.S. gals.)	<ul style="list-style-type: none"> Unleaded gasoline 87 octane or higher up to 10% ethanol content by volume 	
Coolant	2.7 L (2.85 U.S.qts.)	Fresh clean water with anti-freeze	
Recovery tank	0.25 L (0.26 U.S.qts.)		
Engine crankcase	3.5 L (3.7 U.S.qts.)*1	<ul style="list-style-type: none"> Engine oil: API service Classification SH or higher Above 25 °C (77 °F)...SAE30 or 10W-30 0 to 25 °C (32 to 77 °F)...SAE20 or 10W-30 -18 to 0 °C (0 to 32 °F)...SAE10W or 10W-30 	
Transmission case with filter & hose Rear axle gear case (RH & LH)	12.1 L (12.8 U.S.qts.)	<ul style="list-style-type: none"> KUBOTA UDT or SUPER UDT fluid*2 	
Mower gear box	0.4 L (0.4 U.S.qts.)	SAE90 gear oil (API service classification: more than GL-3)	
Greasing	No. of greasing points	Capacity	Type of grease
Front axle	2	Until grease overflows	<ul style="list-style-type: none"> Multipurpose EP2 Grease (NLGI Grade No.2)
Front wheel	2		
Parking brake lock pedal	1		
Front lift arm	2		
Universal joint	3		
Seat adjuster	2		
Motion control lever pivot bushing, and contact position	6		
Cable (throttle)	2	Moderate amount	<ul style="list-style-type: none"> Oil
Cable (choke)	2		
[MOWER]		Until grease overflows	<ul style="list-style-type: none"> Multipurpose EP2 Grease (NLGI Grade No.2)
Universal joint	3		
Three spindle shafts	3		
Belt tension pulley	1		
Belt tension pivot	1		
Front anti scalp roller pivot boss	2		
Front anti scalp roller	2		

Note *1 Oil amount when the oil level is at the upper level of the oil level gauge.

*2 KUBOTA original transmission hydraulic fluid

IMPORTANT :

- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

NOTE :

◆ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE Engine Oil according to the ambient temperatures as shown above.
- Indicated capacity of oil is manufacture's estimate.

◆ Transmission oil:

- The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacity of oil is manufacture's estimate.

◆ Fuel:

- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is approved for the engine. Other gasoline/alcohol blends are not approved.
- Indicated capacity of fuel is manufacture's estimate.