

F. Maintenance intervals

a. Maintenance intervals chart : EU-version

General Maintenance	Elapsed Operating Hours																			Interval		
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950		1000	
Operator Services	Check engine oil level																				daily	
	Check hydraulic oil level																					daily
	Check fuel level																					daily
	Check coolant level																					daily
	Grease front attachments																					daily
	Check V-belt																					daily
	Check washer liquid																					daily
	Check water separator																					daily
	Grease swivel gear	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	50 h
	Check, clean air filter 1.)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	50 h
	Grease swivel gear bearing				○				○				○			○					○	200 h
	Check battery electrolyte level									○											○	500 h
	Drain water in fuel tank									○											○	500 h

IMPORTANT:

- ○ First operation
 - 1.) Clean the air filter more frequently if used under dusty conditions. By heavy soiling, replace the filter.
 - 2.) When using a hydraulic breaker, change hydraulic oil and return filter according to the table on "Hydraulic Oil Change".
 - 3.) Earlier if necessary.
 - 4.) At least annually.
- (including Exchange of the Suction Filter in the Hydraulic Tank) under "EVERY 1000 SERVICE HOURS" in "REGULAR CHECKS AND MAINTENANCE WORK".

Service	Elapsed Operating Hours																			Interval		
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950		1000	
Servicing by skilled personnel or KUBOTA dealer	Change engine oil and oil filter	●				○				○					○					○	250 h	
	Inspect coolant hoses and clamps					○				○					○					○	250 h	
	Check/adjust V-belt tension					○				○					○					○	250 h	
	Grease pilot valve linkage					○				○					○					○	250 h	
	Change fuel filter cartridge 3.)																			○	500 h	
	Drain of the water separator									○										○	500 h	
	Change hydraulic return line filter element					●				○										○	500 h	
	Change drive unit oil 4.)		●							○										○	500 h	
	Change hydraulic oil and suction filter 2.)																			○	1000 h	
	Renewing the pilot circuit filter																			○	1000 h	
	Change air filter elements 1.)																			○	1000 h	
	Change idler and track roller oil																					2000 h
	Check alternator and starter motor																					Please contact your KUBOTA dealer. 2000 h
	Inspect electric cables and connections																					Please contact your KUBOTA dealer. annually
	Change coolant																					every 2 years
	Change hydraulic hoses																					Please contact your KUBOTA dealer. every 6 years
Safety inspection																					annually	

b.Maintenance intervals chart : PP-version

No.	Check points		Intervals	Hour meter indicator											Consequently	Ref. page		
				50	100	150	200	250	300	350	400	450						
1	Coolant		check	Daily check														
			change													every 2 years		
2	Fuel		check	Daily check														
3	Engine oil		check	Daily check														
			change	●					○						every 250 hrs			
4	Hydraulic oil		check	Daily check														
			change												every 1000 hrs		*1	
5	Lubrication points		-	Daily check														
6	Radiator and oil cooler		check	Daily check														
7	Engine and electrical wiring		check	Daily check											every year			
8	Fuel tank, Water separator		drain	○	○	○	○	○	○	○	○	○	○	every 50 hrs				
9	Battery condition		check	○	○	○	○	○	○	○	○	○	every 50 hrs					
10	Greasing swing bearing teeth		-	○	○	○	○	○	○	○	○	○	every 50 hrs					
11	Fan belt tension		check	Daily check														
			adjust				○					○		every 200 hrs				
12	Radiator hoses and clamps		check				○					○	every 200 hrs					
			replace											every 2 years				
13	Air filter element	Outer element	clean				○					○	every 200 hrs		*2	@		
		Inner element	replace										every 1000 hrs		*2			
			replace											every 1000 hrs			*2	
14	Greasing swing ball bearings		-				○					○	every 200 hrs					
15	Fuel filter cartridge		replace										every 500 hrs			@		
16	Engine oil filter		replace	●						○			every 250 hrs					
17	Drive unit oil		change		●								every 500 hrs					
18	Hydraulic return filter element		replace					●					every 500 hrs					
19	Hydraulic suction filter element		replace										every 1000 hrs					
20	Filter in the pilot hydraulic system		replace										every 1000 hrs					
21	Fuel injection nozzle injection pressure		check										every 1500 hrs		*4	@		
22	Front idler and track roller oil		change										every 2000 hrs					
23	Alternator and starter motor		check										every 2000 hrs					
24	Injection pump		check										every 3000 hrs		*4	@		
25	Radiator system		rinse										every 2 years					
26	Fuel line and Intake air line		check				○					○	every 200 hrs			@		
			replace										every 2 years		*3			
27	Greasing pilot valve linkage		-					○					every 250 hrs					
28	Pilot circuit filter		clean										every 1000 hrs					

D 500 thru 1000 continued to the following table.

No.	Check points		Intervals	Hour meter indicator							Consequently	Ref. page			
				500	550	600	650	700	750	800					1000
1	Coolant		check	Daily check											
			change									every 2 years			
2	Fuel		check	Daily check											
3	Engine oil		check	Daily check											
			change		○					○		every 250 hrs			
4	Hydraulic oil		check	Daily check											
			change								○	every 1000 hrs	*1		
5	Lubrication points		-	Daily check											
6	Radiator and oil cooler		check	Daily check											
7	Engine and electrical wiring		check	Daily check							every year				
8	Fuel tank, Water separator		drain	○	○	○	○	○	○	○	○	every 50 hrs			
9	Battery condition		check	○	○	○	○	○	○	○	○	every 50 hrs			
10	Greasing swing bearing teeth		-	○	○	○	○	○	○	○	○	every 50 hrs			
11	Fan belt tension		check	Daily check											
			adjust			○				○	○	every 200 hrs			
12	Radiator hoses and clamps		check			○					○	○	every 200 hrs		
			replace											every 2 years	
13	Air filter element	Outer element	clean			○					○	○	every 200 hrs	*2	@
			replace									○	every 1000 hrs	*2	
		Inner element	replace									○	every 1000 hrs	*2	
14	Greasing swing ball bearings		-			○					○	○	every 200 hrs		
15	Fuel filter cartridge		replace	○								○	every 500 hrs		@
16	Engine oil filter		replace		○						○		every 250 hrs		
17	Drive unit oil		change			○							every 500 hrs		
18	Hydraulic return filter element		replace							○			every 500 hrs		
19	Hydraulic suction filter element		replace								○		every 1000 hrs		
20	Filter in the pilot hydraulic system		replace								○		every 1000 hrs		
21	Fuel injection nozzle injection pressure		check										every 1500 hrs	*4	@
22	Front idler and track roller oil		change										every 2000 hrs		
23	Alternator and starter motor		check										every 2000 hrs		
24	Injection pump		check										every 3000 hrs	*4	@
25	Radiator system		rinse										every 2 years		
26	Fuel line and Intake air line		check			○					○	○	every 200 hrs		@
			replace										every 2 years	*3	
27	Greasing pilot valve linkage		-	○							○	○	every 250 hrs		
28	Pilot circuit filter		clean										every 1000 hrs		

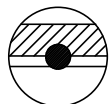
c. Water and oil quantity

	Unit	U20-3α	U25-3α	U25S	Remarks
Radiator	Canopy / Cab	L gal	3.0 0.79	←	Kubota LLC-N-50F 50%
Reserve tank		L gal	0.6 0.16	←	
Engine oil with filter		L gal	4.4 1.16	←	SAE10W30(CF-4)
Hydraulic oil	Full	L gal	37.0 9.98	←	ISO 46
Hydraulic oil	Tank gauge center	L gal	22.5 5.94	←	ISO 46
Wheel motor		L gal	0.33 0.09	←	SAE90 (API GL-4)
Track roller		cc gal	50 0.01	←	SAE30(CD)
Upper roller		cc gal	60 0.02	←	SAE30(CD)
Front idler		cc gal	35 0.01	←	SAE30(CD)
Fuel tank		L gal	27.5 7.27	←	

Grease	Supply grease to such amount that it oozes out of periphery of the rotating end.	Ultra -pressure grease : EP2, Beacon Q2
Control lever and links Du-bushing	Assemble after applying grease	

Inspection of hydraulic oil

When checking the hydraulic oil level, satisfy the following conditions and make sure the oil level is above the center the oil gauge.



The oil level is within the shaded area shown in the figure at left.

- 1) Oil temp. should be between 10 ~ 30 °C (50 ~ 86 °F)
- 2) Stance of front attachment :
 Swing : Straight forward
 Arm : Vertical to the ground
 Bucket : On the ground at its bottom
 Dozer blade : Down to the ground

