

For the maintenance of engine equipped with turbocharger, refer to the last section of this manual.

MAINTENANCE TABLE

No.	ITEM	SERVICE	PAGE
CHECK BEFORE STARTING			
a	Oil and water leak	Check	18
b	Nuts and bolts	Check and retighten	18
c	Electric wiring	Check and retighten	18
d	Coolant	Check and supply	19
e	Fuel	Check and supply	19
f	Engine oil pan	Check and supply	20
g	Transmission case (incl. torque converter case)	Check and supply	21
h	Steering clutch case (incl. bevel gear case)	Check and supply	21
i	Dust indicator	Check	22
j	Brake pedal	Check travel	22
k	Fuel tank	Drain water and sediment	22
l	Water separator	Inspect float position	23

No.	ITEM	SERVICE	PAGE
EVERY 250 HOURS SERVICE (The items marked * are carried out after the first 250 hours only for new machines.)			
*	Fuel filter	Replace cartridge	57
*	Engine oil pan and filter	Change oil and replace cartridge	57
*	Transmission case (incl. torque converter case)	Change oil and clean strainer	57
*	Steering clutch case (incl. bevel gear case)	Change oil and clean strainer	57
*	Hydraulic tank and filter	Change oil and replace element	57
*	Final drive case	Change oil	57
a	Lubricating		57
-1	Equalizer bar pin	Lubricate 1 point	57
-2	Brace	Lubricate 4 points (D65A,E)	57
		Lubricate 5 points (D65P)	57
-3	Cylinder support yoke	Lubricate 4 points	58
-4	Cylinder support shaft	Lubricate 2 points	58
-5	Piston rod bearing	Lubricate 2 points	58

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MAINTENANCE TABLE

No.	ITEM	SERVICE	PAGE
b	Check oil level		59
-1	Final drive case	Check and supply	59
-2	Hydraulic tank	Check and supply	59
c	Steering clutch case oil filter	Replace element	60
d	Transmission case oil filter	Replace element	61
e	Fuel tank bottom strainer	Clean	62
f	Battery electrolyte	Check	62
g	Fuel filter	Drain water and sediment	63
h	Track shoe bolt	Check and retighten	63
i	Fan belt	Check tension	64
j	Radiator fin	Check and clean	65

No.	ITEM	SERVICE	PAGE
EVERY 500 HOURS SERVICE			
a	Fuel filter	Replace cartridge	66
b	Engine oil pan and filter	Change oil and replace cartridge	67
c	Breathers	Clean	68
EVERY 1000 HOURS SERVICE			
a	Lubricating		69
-1	Universal joint	Lubricate 2 points	69
-2	Diagonal brace	Lubricate 2 points	69
b	Transmission case (incl. torque converter case)	Change oil and clean strainer	69
c	Steering clutch case (incl. bevel gear case)	Change oil and clean strainer	71
d	Final drive case	Change oil	72
e	Hydraulic tank and filter	Change oil and replace element	72
f	Undercarriage components	Check lubricating condition	73
g	Corrosion resistor	Replace cartridge	74

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FUEL, COOLANT AND LUBRICANTS

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE					CAPACITY (ℓ)				
		14 -10	32 0	50 10	68 20	86°F 30°C	Specified	Refill			
Engine oil pan	Engine oil			SAE 30			30	26			
		SAE 10W									
		SAE 10W-30									
		SAE 15W-40									
Steering clutch case (incl. bevel gear case)				SAE 30			70	65			
Final drive case (each)		SAE 10W					D65A,E:31 D65P: 36	31 36			
Transmission case (incl. torque converter case)							52	47			
Hydraulic tank		SAE 10W					108	—			
		SAE 10W-30									
		SAE 15W-40									
Fuel tank	Diesel fuel	※					320	—			
			ASTM D975 No. 2								
Cooling system	Water	Add antifreeze					63	—			

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-2	Brace	Lubricate 4 points (D65A,E) Lubricate 5 points (D65P)	57
-3	Cylinder support yoke	Lubricate 4 points	58
-4	Cylinder support shaft	Lubricate 2 points	58
-5	Piston rod bearing	Lubricate 2 points	58

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MAINTENANCE TABLE

No.	ITEM	SERVICE	PAGE
b	Check oil level		59
-1	Final drive case	Check and supply	59
-2	Hydraulic tank	Check and supply	59
c	Steering clutch case oil filter	Replace element	60
d	Transmission case oil filter	Replace element	61
e	Fuel tank bottom strainer	Clean	62
f	Battery electrolyte	Check	62
g	Fuel filter	Drain water and sediment	63
h	Track shoe bolt	Check and retighten	63
i	Fan belt	Check tension	64
j	Radiator fin	Check and clean	105
k	Engine oil pan and filter	Change oil and replace cartridge	105

No.	ITEM	SERVICE	PAGE
EVERY 500 HOURS SERVICE			
a	Fuel filter	Replace cartridge	66
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d	Final drive case	Change oil	72
e	Hydraulic tank and filter	Change oil and replace element	72
f	Undercarriage components	Check lubricating condition	73
g	Corrosion resistor	Replace cartridge	74
h	Turbocharger clamping joint	Check and retighten	107
i	Turbocharger rotor	Check play	107

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No.	ITEM	SERVICE	PAGE
	EVERY 2000 HOURS SERVICE		
a	Engine breather	Clean element	108
b	Alternator and starting motor	check	108
c	Engine valve clearance	Check and adjust	108
d	Engine vibration damper	Check	108
e	Turbocharger rotor impeller	Check rotating condition	109
f	Turbocharger	Check and clean	109
	EVERY 4000 HOURS SERVICE		
a	Water pump	Check	76
	WHEN REQUIRED		
a	Track	Check tension	77
b	Air cleaner	Check, clean or re-place when required	78
c	Cooling system	Clean	81
d	Lubricating		84
-1	Steering clutch brake pedal shaft	Lubricate 4 points	84
-2	Brake lock lever shaft	Lubricate 1 point	84

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