





**Skilled personnel maintenance chart**

No.	Check point	Measure	Hour meter indication										Interval	Reference	
			5 0	1 0 0	1 5 0	2 0 0	2 5 0	3 0 0	3 5 0	4 0 0	4 5 0	5 0 0			
25	Air conditioning belt and fan belt	Adjust					o						o	Every 250 h	3-31
26	Air conditioning belt and fan belt	Replace											o	Every 500 h	3-33
27	Water separator element	Replace											o	Every 500 h	3-34
28	Engine oil and engine oil filter	Replace											o	Every 500 h	3-34
29	Travel motor gear oil <sup>*1</sup>	Replace	•										o	Every 500 h	3-35
30	Fuel filter	Replace											o	Every 500 h	3-36
31	Tank Breather filter	Replace											o	Every 500 h	3-36
32	Air conditioning filter <sup>*2, 3</sup>	Replace												Every 600 h	3-39
33	Return filter <sup>*4</sup>	Replace												Every 1000 h	3-41
34	Pilot filter	Replace												Every 1000 h	3-42
35	Hydraulic oil and suction filter <sup>*4</sup>	Replace												Every 1000 h	3-43
36	Engine air cleaner elements <sup>2</sup>	Outer element												Every 1000 h	3-44
		Inner element												Every 1000 h	
37	Valve clearance	Check												Every 1000 h	3-45
38	Oil separator element	Replace												Every 1500 h	3-51
39	EGR cooler	Check												Every 1500 h	3-51
40	Engine oil in the front idler and track roller	Replace												Every 2000 h	3-53
41	Alternator	Check												Every 2000 h	3-54
42	Starter motor	Check												Every 2000 h	3-54
43	EGR valve	Check												Every 3000 h	3-57
44	DPF muffler <sup>*5, 6</sup>	Clean												Every 6000 h	3-59
45	Safety inspection <sup>*7</sup>	Check												Annually	3-61
46	Intake air line	Check												Annually	3-61
47	DPF muffler	Check												Annually	3-61
48	EGR and EGR piping	Check												Annually	3-62
49	Air conditioning and heater hoses	Check												Annually	3-63
50	Air conditioning and heater hoses	Replace												Every 2 years	3-65
51	Radiator hoses and clamps	Replace												Every 2 years	3-66
52	Fuel line	Replace												Every 2 years	3-67
53	Intake air line	Replace												Every 2 years	3-67
54	Coolant	Replace												Every 2 years	3-68
55	Oil separator rubber piping	Replace												Every 2 years	3-69
56	DPF differential pressure sensor and rubber piping	Replace												Every 2 years	3-69
57	EGR cooler hose	Replace												Every 2 years	3-70
58	Hydraulic hoses	Replace												Every 2 years	3-70

(Continued)

### 3. MAINTENANCE

No.	Check point	Measure	Hour meter indication										Interval	Reference		
			5 0	1 0	1 5	2 0	2 5	3 0	3 5	4 0	4 5	5 0				
59	Refrigerant	Check													Perform maintenance as required	3-71

\* 550 through 1000 continues to the following table.

No.	Check point		Measure	Hour meter indication										Interval	Reference	
				5 5 0	6 0 0	6 5 0	7 0 0	7 5 0	8 0 0	8 5 0	9 0 0	9 5 0	1 0 0 0			
25	Air conditioning belt and fan belt		Adjust					o						o	Every 250 h	3-31
26	Air conditioning belt and fan belt		Replace											o	Every 500 h	3-33
27	Water separator element		Replace											o	Every 500 h	3-34
28	Engine oil and engine oil filter		Replace											o	Every 500 h	3-34
29	Travel motor gear oil*1		Replace											o	Every 500 h	3-35
30	Fuel filter		Replace											o	Every 500 h	3-36
31	Tank Breather filter		Replace											o	Every 500 h	3-36
32	Air conditioning filter*2, 3		Replace		o										Every 600 h	3-39
33	Return filter*4		Replace											o	Every 1000 h	3-41
34	Pilot filter		Replace											o	Every 1000 h	3-42
35	Hydraulic oil and suction filter		Replace											o	Every 1000 h	3-43
36	Engine air cleaner elements*2	Outer element	Replace											o	Every 1000 h	3-44
		Inner element	Replace											o	Every 1000 h	
37	Valve clearance		Check											o	Every 1000 h	3-45
38	Oil separator element		Replace												Every 1500 h	3-51
39	EGR cooler		Check												Every 1500 h	3-51
40	Engine oil in the front idler and track roller		Replace												Every 2000 h	3-53
41	Alternator		Check												Every 2000 h	3-54
42	Starter motor		Check												Every 2000 h	3-54
43	EGR valve		Check												Every 3000 h	3-57
44	DPF muffler*5, 6		Clean												Every 6000 h	3-59
45	Safety inspection*7		Check												Annually	3-61
46	Intake air line		Check												Annually	3-61
47	DPF muffler		Check												Annually	3-61
48	EGR and EGR piping		Check												Annually	3-62
49	Air conditioning and heater hoses		Check												Annually	3-63
50	Air conditioning and heater hoses		Replace												Every 2 years	3-65
51	Radiator hoses and clamps		Replace												Every 2 years	3-66
52	Fuel line		Replace												Every 2 years	3-67

(Continued)

### 3. MAINTENANCE

No.	Check point	Measure	Hour meter indication										Interval	Reference	
			5 5 0	6 0 0	6 5 0	7 0 0	7 5 0	8 0 0	8 5 0	9 0 0	9 5 0	1 0 0 0			
53	Intake air line	Replace												Every 2 years	<a href="#">3-67</a>
54	Coolant	Replace												Every 2 years	<a href="#">3-68</a>
55	Oil separator rubber piping	Replace												Every 2 years	<a href="#">3-69</a>
56	DPF differential pressure sensor and rubber piping	Replace												Every 2 years	<a href="#">3-69</a>
57	EGR cooler hose	Replace												Every 2 years	<a href="#">3-70</a>
58	Hydraulic hoses	Replace												Every 2 years	<a href="#">3-70</a>
59	Refrigerant	Check												Perform maintenance as required	<a href="#">3-71</a>

\* Servicing marked with ● must be carried out once the specified hours of operation after initial commissioning have been reached.

\*1 Replace earlier if necessary.

\*2 Clean or replace the air conditioning filter and engine air cleaner elements more frequently if used under dusty conditions. If the elements are very dirty due to dusty conditions, replace the elements.

\*3 If you feel a drop in the air-conditioner airflow, replace the air conditioning filter with a new one, regardless of its replacement interval.

\*4 If using a hydraulic breaker, change the hydraulic oil and the return filter according to the table on the operator's manual.

\*5 The machine features a warning system for the DPF cleaning. The diesel particle filter should be cleaned in the event of a warning or every 6000 operating hours.

\*6 Carry out this maintenance referring to "DPF HANDLING MANUAL (FOR EXCAVATOR)".

\*7 At least annually.