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## **Preventive maintenance**

### **Preventive maintenance periods**

These preventive maintenance periods apply to average conditions of operation. Check the periods given by the manufacturer of the equipment in which the engine is installed. If necessary, use the shorter periods. When the operation of the engine must conform to the local regulations these periods and procedures may need to be adapted to ensure correct operation of the engine.

It is good preventive maintenance to check for leakage and loose fasteners at each service.

These maintenance periods apply only to engines that are operated with fuel and lubricating oil which conform to the specifications given in this handbook.

**Schedules**

- A** First service at 25/50 hours (All engines)
- B** Every day or every 8 hours (All engines)
- C** Every 200 hours or 4 months (3.1524, T3.1524)
- D** Every 250 hours or 4 months (D3.152)
- E** Every 400 hours or 12 months (3.1524, T3.1524)
- F** Every 500 hours or 12 months (D3.152)
- G** Every 800 hours or 12 months (3.1524, T3.1524)
- H** Every 2400 hours (3.1524, T3.1524)
- I** Every 2500 hours (D3.152)

A	B	C	D	E	F	G	H	I	Operation
●	●	●	●						Check the amount of coolant
●		●	●						Check the drive belt(s)
●	●								Check for water in the fuel pre-filter <sup>(1)</sup>
				●	●				Renew the fuel filter element(s)
						●		●	Ensure that the atomisers are checked <sup>(2)</sup>
●									Ensure that the idle speed is checked and adjusted, if it is necessary <sup>(2)</sup>
	●								Check the amount of lubricating oil in the sump
●	●								Check the lubricating oil pressure at the gauge <sup>(1)</sup>
●			●	●					Renew the lubricating oil <sup>(3)</sup>
●			●	●					Renew the canister(s) of the lubricating oil filter
●	●								Clean the air cleaner or empty the dust bowl of the air filter
●		●	●						- extremely dusty conditions
									- normal conditions
				●	●				Clean or renew the air filter element, if this has not been indicated earlier
							●	●	Ensure that the turbocharger impeller and turbocharger compressor casing are cleaned
		●	●						Clean the compressor air filter <sup>(1)</sup>
							●	●	Ensure that the exhaustor or compressor <sup>(1)</sup> is checked <sup>(2)</sup>
●			●	●					Ensure that the tappet clearances are checked and adjusted, if it is necessary <sup>(2)</sup>
							●	●	Inspect the electrical system for signs of damage <sup>(2)</sup>

<sup>(1)</sup> If there is one fitted.

<sup>(2)</sup> By a person who has had the correct training.

<sup>(3)</sup> The oil change interval will change with the amount of sulphur in the fuel (see the table below and "Fuel specification" on page 37). The interval to change the canister of the lubricating oil filter is not affected.

Sulphur content of fuel %	Oil change interval			
	Hours		Months	
	D3.152	3.152, T3.152	D3.152	3.152, T3.152
<0.5	250	400	4	6
0.5-1,0	190	300	3	4.5
>1.0	120	200	2	3