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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

The schedules which follow must be applied at the interval (kilometers, miles, hours or months) which occurs first.

- A First service at 800/1600 km (500/1000 miles) 25/50 hours
- B Every day or every 8 hours
- C Every 7500 km (5000 miles) 250 hours or 4 months
- D Every 15000 km (10 000 miles) 500 hours or 12 months
- E Every 90 000 km (60 000 miles) 2500 hours

A	B	C	D	E	Operation
●	●				Check the amount of coolant
●		●			Check the drive belt(s)
			●		Clean the sediment chamber and the strainer of the fuel lift pump
●	●				Check the water in the fuel pre-filter ⁽¹⁾
			●		Renew the fuel filter element(s)
				●	Ensure that the atomisers are checked ⁽²⁾
●					Ensure that the idle speed is checked and adjusted, if it is necessary ⁽²⁾
	●				Check the amount of lubricating oil in the sump
●	●				Check the lubricating oil pressure at the gauge ⁽¹⁾
●		●			Renew the lubricating oil ^{(3) (5)}
●		●			Renew the canister 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 ⁽⁴⁾
				●	Clean the vent valve of the engine breather system ⁽¹⁾
				●	Ensure that the turbocharger impeller and turbocharger compressor casing are cleaned
		●			Clean the compressor air filter ⁽¹⁾
				●	Ensure that the exhauster or compressor ⁽¹⁾ is checked ⁽²⁾
●					Ensure that the valve tip clearances are checked and adjusted, if it is necessary ⁽²⁾
				●	Ensure that the alternator, starter motor etc. are checked ⁽²⁾

(1) If there is one fitted.

(2) By a person who has had the correct training.

(3) 4.2482 engines, every 500 hours or 12 months.

(4) 4.2482 engines, every 1000 hours.

(5) The oil change interval will change with the sulphur content of the fuel (see the table below and "Fuel specification" on page 41). The interval to change the canister of the lubricating oil filter is not affected.

Sulphur content of fuel (%)	Oil change interval					
	Hours		Months		Miles	
	4.236, T4.236, 4.248	4.2482	4.236, T4.236, 4.248	4.2482	4.236, T4.236, 4.248	4.2482
< 0.5	250	500	4	12	5000	10000
0.5-1,0	190	380	3	9	3750	7500
>1.0	120	250	2	6	2500	5000