

4

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. Use the periods which are shortest. 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 (hours or months) which occur first.

- A Every day or every 8 hours
- B Every 450 hours or 6 months
- C Every 900 hours or 12 months
- D Every 3600 hours or 24 months
- E Every 5000 hours
- F Every 6700 to 7500 hours
- G Annually

A	B	C	D	E	F	G	Operation
●							Ensure that the coolant is at the correct level
●							Check the intercooler and the coolant radiator for debris
	●						Check, and adjust if necessary, the antifreeze mixture ⁽²⁾
	●						Test the level of coolant conditioner, and adjust if necessary ⁽²⁾
	●						Check the condition of the drive belt
			●				Renew the coolant ⁽⁴⁾
						●	Renew the canister of the coolant filter ⁽³⁾
						●	Inspect the thermostat ⁽²⁾
●							Drain water from the fuel pre-filter ⁽¹⁾
		●					Renew the canister of the fuel filter and renew the fuel strainer
●							Check the amount of lubricating oil in the sump
●							Check the lubricating oil pressure at the gauge ⁽¹⁾
	●						Renew the engine lubricating oil ⁽⁵⁾
	●						Renew the canister of the lubricating oil filter
	●						Clean or renew the air filter element (or earlier if in extremely dusty conditions)
				●			Ensure that the valve tip clearances of the engine are checked and, if necessary, adjusted ⁽²⁾
					●		Ensure that the turbocharger impeller and the turbocharger compressor casing are cleaned ⁽²⁾
					●		Ensure that the alternator, the starter motor, and the turbocharger are checked
						●	Inspect the electrical system ⁽²⁾

- (1) If one is fitted.
- (2) By a person who has had the correct training.
- (3) Also if the coolant system has been drained.
- (4) The system should be flushed and a new canister fitted.
- (5) The oil change interval will change with the sulphur content of the fuel (see the table below and the "Fuel specification" on page 29). The interval to change the canister of the lubricating oil filter is not affected.
- (6) Use the **POWERPART** test-kit, part number 26550004.

Fuel sulphur content (%)	Oil change interval
<0.5	Normal
0.5 to 1.0	75% of normal
>1.0	50% of normal