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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. 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.

## Schedule

The operations which follow must be applied at the interval (hours or months) which occurs first.

- A Daily
- B Every 250 hours or 12 months
- C Every 500 hours or 12 months
- D Every 12 months
- E Every 1000 hours or 24 months
- F Every 3000 hours or 24 months
- G Every 5000 hours

A	B	C	D	E	F	G	Operation
●							Check the amount of coolant
●							Check the air cleaner service indicator
●							Check the amount of lubricating oil in the sump
●							Drain water/sediment from the primary fuel filter
●							Visual inspection
	●						Check battery electrolyte level
	●						Drain water/sediment from fuel tank
		●					Perform diagnostics check
		●					Renew the element of the primary fuel filter
		●					Renew the element of the secondary fuel filter
		●					Check the specific gravity and the pH value of the coolant
		●					Renew the engine lubricating oil <sup>(1)(2)</sup>
		●					Renew the element of the lubricating oil filter
		●					Inspect/adjust/renew the alternator and fan belts
		●					Inspect the crankshaft vibration damper
		●					Inspect/clean/tighten the earth stud
		●					Inspect/renew the coolant hoses, air hoses and hose clips
		●					Inspect and, if necessary, clean the exterior of the radiator/charge cooler
		●					Inspect the engine mountings
			●				Drain and flush the coolant system and renew the coolant mixture
				●			Check/adjust the tappet clearances and the electronic unit injectors <sup>(3)</sup>
					●		Check the engine protection devices <sup>(3)</sup>
					●		Renew the thermostats of the coolant system
					●		Check/clean/calibrate the engine speed/timing sensors
					●		Inspect the turbocharger <sup>(3)</sup>
						●	Inspect the battery charging alternator <sup>(3)</sup>
						●	Inspect the starter motor <sup>(3)</sup>
						●	Inspect the coolant pump

(1) The life of the engine lubricating oil may be extended by the use of an oil sample analysis programme.

(2) For TAG2 engines, with the 1/2 TA luff option, which operate at standby duty with an average load factor of 80%, the lubricating oil MUST be changed at 250 hour intervals.

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