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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 - Naturally aspirated engines (GenSet and welder engines only)

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

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|----------|------------------------------|----------|------------------------------|
| A | First service at 25/50 hours | D | Every 500 hours or 12 months |
| B | Every day or every 8 hours | E | Every 1000 hours |
| C | Every 200 hours or 4 months | F | Every 2000 hours |

| A | B | C | D | E | F | Operation |
|---|---|---|---|---|---|---|
| | ● | | | | | Check the amount of coolant |
| | | | ● | | | Check the specific gravity of the coolant ⁽¹⁾ ⁽³⁾ |
| | | ● | | | | Check the drive belt of the alternator |
| | | ● | | | | Check for leakage of oil, coolant and fuel |
| | | ● | | | | Drain water from the fuel pre-filter |
| | | | ● | | | Renew the element of the fuel filter |
| | | | | ● | | Ensure that the atomisers are checked ⁽³⁾ |
| | ● | | | | | Check the amount of lubricating oil in the sump |
| | ● | | | | | Check the lubricating oil pressure at the gauge ⁽²⁾ |
| | | | ● | | | Renew the engine lubricating oil ⁽⁴⁾ |
| | | | ● | | | 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 |
| | | ● | ● | | | Clean external vent holes on the breather, if fitted |
| | | | ● | | | Check all hoses and connections (also includes breather pipe) |
| | | | ● | | | Ensure that the valve tip clearances of the engine are checked and, if necessary, adjusted ⁽³⁾ |
| | | | | ● | | Check all electrical cables and connections |
| | | | | ● | | Ensure that the alternator and the starter motor are checked ⁽³⁾ |

⁽¹⁾ Renew the antifreeze every 2 years. If a coolant inhibitor is used instead of antifreeze, it should be renewed every 6 months. If combustion gases are released into the coolant circuit, the coolant must be renewed.

⁽²⁾ If there is one fitted.

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

⁽⁴⁾ The oil change interval will change with the amount of sulphur in the fuel (see "Fuel specification" on page 45). The interval to change the canister of the lubricating oil filter is not affected.