

Home Office  
SME Use  
Telecommunications  
Data Centre



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## Major Generator Service Visit

**Part No.**

### Product Description

Every generator maintenance contract comes with 4 hour response as standard as well as a Major and Minor annual service visit.

The following procedures and checklists to be carried out during a major service include:

#### Lubricating System

- Change engine lubricating oil.
- Change engine lubricating oil filter.
- Change engine lubricating oil bypass filter, if fitted.
- Check engine oil for leaks.
- Check hydraulic governor oil level, if fitted.
- Record oil pressure – P.S.I R.P.M.

#### Fuel System

- Drain sediment from fuel tank.
- Check fuel tank breather.
- Clean out water and sediment trap.
- Change fuel filters.
- Check fuel system pipes and unions for leaks.
- Check operation of engine governor and stop controls.
- Check operation of fuel system priming pump.
- Check fuel level, inform Owner/Manager if low.

#### Cooling System

- Check coolant level and antifreeze content and top up if necessary.
- Check coolant inhibitor.
- Change coolant filter, if hours occurred.
- Check for coolant leaks.
- Check condition of hoses and clips.

- Check condition of fan belts and adjust or renew, if required.
- Check water pump and lubricate.
- Check and lubricate fan hubs and idlers.
- Check condition of radiator.
- Clean radiator fins.
- Check condition of radiator ducting and trunking.
- Check operation of block and radiator heaters.
- Check operation of ventilation automatic louvers, if fitted.
- Record engine cooling system temperatures.

#### **Air Intake System**

- Change air filter element, if necessary (chargeable).
- Clean and check air cleaner and piping for damage.
- Check turbocharger operation and condition.
- Check inlet manifold and gaskets.
- Check and tighten turbocharger outlet hose clips.

#### **Exhaust System**

- Tighten Manifold nuts and cap screws.
- Tighten turbocharger mounting nuts.
- Check for leaks and signs of blowing.
- Check condition of silencer and piping.
- Drain moisture trap in exhaust pipe.

#### **Engine Electrical System**

- Check battery electrolyte level and specific gravity, top up if necessary.
- Check condition of charging system.
- Record charging rate – amps.
- Check operation of starting system.
- Check condition of wire and connectors.

#### **Alternator**

- Check bearings and lubricate.
- Check commutators or slip rings.
- Examine brush gear.
- Check alternator to engine alignment.
- Check alternator to engine coupling.

#### **General Generator Maintenance**

- Check engine mounting bolts.
- Check engine anti-vibration mountings.
- Check operation of engine governor.
- Check and adjust engine valve clearance, if hours occurred.
- Check and clean engine crankcase, breather.
- Check engine vibration dampers.
- Lubricate all engine linkages.
- Keep generator plant room in a clean and tidy condition.