



Emergency **POWER SYSTEMS** Management

## **Preventive Maintenance Programs / LIQUID COOLED UNITS**

**PM Technologies** Preventive Maintenance Programs include a complete inspection of all major systems of your standby power system. Maintenance visits are separated into a Primary Maintenance (major) visit and a series of Secondary Maintenance (minor) visits depending on the specific needs of you and your facility. Minor operational issues will be corrected during the maintenance visit and are included in the scope of work. Should major correction be necessary, those problems will be identified and quoted for follow up repair. Each maintenance visit includes the following points of inspection:

### **ENGINE –**

#### **Lubrication System:**

- Annual oil and filter change – **Primary only**
- Inspection for evidence of dilution/contamination
- Inspection for leaks
- Operating temperature
- Oil pressure check (**where possible**)
- Annual oil sample analysis – **Secondary Only**

#### **Fuel System:**

- Fuel supply check (**quantity, quality**)
- Fuel supply manifold inspection
- Annual filter changes, if applicable – **Primary only**
- Transfer pump and day tank operational check, as required
- Engine fuel line, pump and filter inspection
- Governor actuator inspection and lubrication
- Fuel pressure check (**where possible**)
- Condensate draining (**where possible**)
- Fuel Polishing available at an additional cost (*Ask us about a presentation*)

#### **Air System:**

- Louver, ductwork and air filter inspection/cleaning (**where possible**)
- Turbo outlet hose and pipe inspection
- Air-box damper operating mechanism inspection and lubrication
- Crankcase breather and air-box drain service, as required

#### **Cooling System:**

- Coolant level and temperature check
- Freeze protection check
- Fan shroud, guard and bracket inspection
- Radiator core and fan drive belt inspection
- Idler and fan drive bearing inspection / lubrication
- Coolant hose and pipe inspection

#### **Exhaust System:**

- Exhaust pipe and flex inspection
- Muffler support inspection
- Turbocharger clamp and bracket inspection
- Muffler drain (**where possible**)

#### **Electrical System:**

- Starter cable, wire and connector inspection
- Starting battery float voltage and electrolyte level check
- Charger check for proper operation and output
- Starting battery voltage load test
- Electrical control and sensor wire termination inspection
- Block heater, control thermostats and oil pressure disconnect switch operational check
- Ignition system inspection

### **GENERATOR –**

#### **Mechanical:**

- Mounting bolt inspection and sounding
- Fan guard and air inlet screen inspection
- Bearing inspection and lubrication (**where possible**)
- Mechanical connection inspection

#### **Electrical:**

- No load and full load volt check (*during load test*)
- Exciter assembly and stator inspection
- Cable and wire generator termination inspection
- Rotating rectifier and surge suppressor inspection
- End bell enclosure inspection for cleanliness and device interference with rotating assembly

#### **Controls:**

- Auto start and remote control operation check
- AC and engine instrument operation and accuracy check
- Generator-set-associated indicator light and alarm operational check
- Relay and contactor inspection
- Control panel wire inspection

#### **Switchgear:**

- Transfer switch inspection for cleanliness and integrity
- Inspection for signs of overheating and wear

A written report detailing any recommendations will be left on site upon completion of the service. **PM Technologies** offers a full line of Emergency Power System products and services.

Contact us today at **800-419-5199** or visit us at **[www.pmttech.org](http://www.pmttech.org)** for more information.

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