

Total Maintenance Checks and Frequency*

Quarterly inspections/services shall consist of the following:

- Check Anti-freeze & Coolant Level
- Check Radiator (leaks, damage, blockage)
- Check Fan Assembly (Cracks, bent blades, grease bearings)
- Check V Belts (proper tension, condition)
- Check Water Hoses (condition, leaks)
- Check Fuel System Day Tank (operation, lines, leaks)
- Check Fuel Injection System (leaks, condition)
- Check Fuel Priming Pump (operation, leaks, condition)
- Check Air Cleaner Assembly (leaks, cracks, gaskets)
- Check Inlet Manifold and Piping (leaks, condition)
- Check Exhaust manifold and Piping (leaks, condition)
- Check Electrical DC Wiring (engine, condition, connections)
- Service Batteries & Cables (water level, condition, connections)
- Check Battery Charger (condition, operation AC/DC)
- Check Balancer (leaks, condition)

Operation Check:

- Check Battery Voltage Drop While Cranking
- Check Engine Smoke (critical system indicator)
- Check Safety Shutdowns & Pre-Alarms (condition, operation)
- Check Fuel Transfer Pump (PSI, condition, leaks)
- Check Oil Pump (PSI)
- Check Lubrication System (leaks)
- Check Entire cooling System (leaks)
- Check Temperature Regulators (operation)
- Check Gauges & Indicators (operation, condition)
- Check Governor (operation, stability, response, frequency)
- Check Turbo Charger (operation)
- Check Aftercooler (leaks)
- Check Control Panel (condition, operation)
- Check Electrical Power Generator (operation voltage)
- Check Engine Room Ventilation
- Check Service (hour) Meter (condition, operation)
- Transfer Power to GenSet (operation-if permissible by Owner)

Perform Minor Adjustments as necessary

- At Operating Temperature:
- Re-Check Lubrication System (leaks)
- Re-Check Cooling System (leaks)
- Re-Check Air Induction System (leaks, condition)
- Re-Check Exhaust System (leaks)
- Re-Check Fuel System (leaks)
- Re-Check Governor (stability, response)
- Re-Check Voltage & Frequency
- Perform minor Adjustments as Necessary

Scheduled routine maintenance shall include:

Check Generator Alignment	Annually
Change Engine Oil & Oil Filters	Annually
Change Fuel Filters	Annually
Check/Adjust Cooling System Conditioner	Annually
Lubricate Fan Drive Bearings	Annually
Perform Stator Insulation Test	Annually
Perform 4 Hour Load Bank Test	Annually
Take Oil Sample & Send Evaluation Report	Annually
Clean & Lubricate Automatic Transfer Switch	Annually
Change Fan and Accessory Drive V- Belts	As needed
Replace Block Heater System Hoses	As needed
Drain, Flush, Refill Cooling System	As needed
Clean Crankcase Breathers	As required
Grease Generator Bearings	Every 1000 hours
Check/Adjust Intake & Exhaust Valves	Every 1000 hours
Replace non Block Heater Coolant Hoses	As required
Replace Air Filter Elements	As required

* This is only a partial maintenance schedule recommendation. See contract for full details.



Our mission statement

"Clifford Power Systems, Inc.[®] is committed to being the preferred leader in the power generation industry. We will fulfill this mission by providing our customers with service above and beyond their expectations."

Generator Set Service from the Experts:

Clifford Power Systems, Inc.[®] is a full service company that rents, sells and services diesel and gas generator set power systems. Our Total Generator Set maintenance contracts are designed to give "peace of mind" ensuring your power equipment performs when required.

Locations

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Total Maintenance

Total maintenance means what it says. Clifford Power Systems, Inc. takes complete responsibility for a client's power system.

Conditions to be met prior to the offering of coverage:
Subject to the following examination of the system, Clifford Power Systems, Inc. will provide complete maintenance coverage:

- Megger testing of the winding insulation of each generator.
- Satisfactory results from a load bank test.
- Lab analysis of oil samples from each engine.
- Transfer test of each ATS.
- Overall condition check to insure all components are in good, functional working order with no impending failures foreseen.

Equipment Excluded from the Total Maintenance Contract:
Batteries, Silencers, Day tanks and all other equipment not sold as part of the original Manufactured generator/transfer switch. Certain exclusions apply. Exclusions subject to change.

Clifford Power Systems, Inc. Obligations under Total Maintenance Contract:

- Perform all routine and emergency repair service to maintain the equipment in good operating condition.
- Repairs provided by Clifford Power Systems, Inc. will include all necessary parts, labor, and travel time. All repairs are the responsibility of Clifford Power Systems, Inc.
- Perform any major repairs as required.
- Provide, at no charge to customer, transportation of the equipment from customer's premises to dealer's shop for major repairs, except such repairs for which customer is required to pay or reimburse dealer.
- Perform all emergency repair and normal maintenance procedures on a 24/7 basis as needed.
- Perform routine planned maintenance every 90 days.
- Supply, on request, proof of insurance as specified.
- Notify you in advance of planned repairs, which will require a unit to be out of service during normal operating hours.

Customer Obligations under Total Maintenance Contract:

- Provide, at no charge an adequate area on customer's premises.
- Repairs provided by Clifford Power Systems, Inc. will include all necessary parts, labor, and travel time except where agreed by the customer.
- Perform weekly and monthly inspections. Clifford Power Systems, Inc. will advise the type of inspection.
- Make the equipment available promptly for Clifford Power Systems, Inc. employees to perform scheduled, "Planned Maintenance Service", and for other necessary work.
- Instruct and supervise operators of the equipment to prevent:
 - Violation of the instruction and good operating procedures as set forth in the Operator's Manual.
 - Continued operation of a unit of equipment, which is in obvious need of repair and where such continued use may increase or accelerate the necessary repairs.
 - Use of unit, which develops or has an unsafe condition.



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"Peace of Mind"*