

CSA

Customer Support Agreement

Generator Maintenance Guide



**Puckett
Power Systems**



What Are The Benefits Of The CSA Program To Your Business?

- Environmental Protection Agency Regulations
 - Puckett Power Systems is equipped to dispose of all waste fluids in accordance with State & Federal regulations
 - We will also dispose of all waste filters
- Fluid Analysis Reports
 - 9 wear elements as well as 5 additive elements are checked
 - Particle Count of all fluids with the exception of engine oil
 - Viscosity of the oil is checked
 - Engine oil is checked for the contamination of Water, Antifreeze and Fuel
 - Analysis reports are monitored for any negative trends that may occur from service to service
 - If a negative trend occurs you will be contacted to determine the best course of action for your equipment
 - You will receive a copy of this report within 7 business days of the service being complete
- Inspection Report
 - Upon completion of service you will receive an inspection report of your equipment with any recommendations notated
 - If recommendations are notated you will receive a follow up call by one of our Service Support Personnel that will assist you on any additional items that may need attention.
- Operator Efficiency
 - We will work our service schedule around your job schedule
 - We can perform services after hours or on Saturday if you prefer
 - You will be contacted by our Service Support Personnel to determine the best time for servicing your equipment

Note: Here at Puckett we understand how valuable your time is. It is not our intent for your business to incur downtime. You tell us your schedule and that will be our schedule.

Quarterly Service Includes:

- Check radiator core for obstruction(s)
- Check coolant level
- Check conditions of radiator cap and seal
- Check for coolant leaks
- Walk around inspections of complete installation for leaks, loose bolts, etc...
- Check lube oil level
- Re-check for leaks with engine running
- Check v-belt tension
- Check condition of flexible fuel lines
- Check day tank pump and alarms (if applicable)
- Check for leaks in complete fuel system
- Check battery condition
- Check battery voltage
- Check battery charger rate
- Check battery terminals and connections
- Check flexible exhaust coupling
- Check rain protection for exhaust system
- Check air cleaner and seal
- Check air cleaner indicator
- Check engine instruments
- Check for proper operation of inlet and discharge louvers (if applicable)
- Check all safeties and pre-alarms on control panel and annunciator panels
- Check for proper voltage and frequency and proper operation of all instrumentation
- Check for proper starting, load transfer and running under load
- Check the following at completion of test
- Cranking control – in automatic
- Circuit breaker – closed
- Phase selector switch 1, 2 or 3 position
- Battery charger – on
- Fuel transfer pump – on
- Fuel valves – open
- Jacket water heater – on
- Remote radiator fan – on
- Louver motor control – on

Semi-Annual Service Includes: Level I Generator Service

- Check radiator core for obstruction(s)
- Check freeze protection of coolant
- Check coolant inhibitors
- Check coolant level
- Check conditions of radiator cap and seal
- Check for coolant leaks
- Check conditions of all hoses of flexible water connections
- Check condition and tightness of hose clamps
- Check for proper operation of jacket water heater(s) and thermostat(s)
- Walk around inspections of complete installation for leaks, loose bolts, etc...
- Check electrolyte level (fill as required)
- Re-check for leaks with engine running
- Check lube oil level
- Check and clean crankcase vent
- Check oil level in governor if applicable
- Check for crankcase blow-by
- Take oil sample while oil is hot
- Re-check oil level
- Re-check for leaks with engine running
- Check v-belt tension
- Lubricate governor linkage if applicable
- Check condition of flexible fuel lines
- Check fuel level in main tank
- Check for water in main tank with kolor kut paste
- Check day tank pump and alarms
- Check for leaks in complete fuel system
- Re-check for leaks with engine running
- Check battery condition
- Check specific gravity of batteries and list abnormalities
- Check electrolyte level (fill as required)
- Check battery voltage
- Check battery charger rate
- Check battery terminals and connections
- Check flexible exhaust coupling
- Check rain protection for exhaust system
- Check air cleaner and light test
- Check air cleaner seal
- Check turbo wheel for bearing wear, free play, tightness, oil leak etc...
- Check air cleaner indicator
- Check for abnormal exhaust characteristics
- Check for looser terminals on all interconnect terminal strips
- Check for loose relays in control system
- Check for broken or worn insulation on generator leads and connections
- Check air gap on generator
- Check engine instruments and record abnormalities
- Check for abnormal noise or vibration
- Check for proper operation of remote fan motors, thermostats, circulating pump, solenoid valves, etc...
- Check for proper operation of inlet and discharge louvers
- Check all safeties and pre-alarms on control panel and annunciator panels and list abnormalities
- Check for proper voltage and frequency and proper operation of all instrumentation
- Return control to automatic and check engine for proper shutdown
- Check voltage drop across normal contacts of ATS with normal building load
- If unable to transfer ATS jumper remote start contacts and check for proper operation
- Check for proper starting, load transfer and running under load
- Check the following at completion of test
- Cranking control – in automatic
- Circuit breaker – closed
- Phase selector switch 1, 2 or 3 position
- Battery charger – on
- Fuel transfer pump – on
- Fuel valves – open
- Jacket water heater – on
- Remote radiator fan – on
- Louver motor control – on

Annual Service Includes: Level II Generator Service

- Check radiator core for obstruction(s)
- Check freeze protection of coolant
- Check coolant inhibitors
- Check coolant level
- Check conditions of radiator cap and seal
- Check for coolant leaks
- Check conditions of all hoses of flexible water connections
- Check condition and tightness of hose clamps
- Check for proper operation of jacket water heater(s) and thermostat(s)
- Walk around inspections for leaks, loose bolts, etc...
- Check electrolyte level (fill as required)
- Re-check for leaks with engine running
- Change engine oil filter(s) if applicable
- Change engine oil if applicable
- Check lube oil level
- Check and clean crankcase vent
- Check oil level in governor if applicable
- Check for crankcase blow-by
- Take oil sample while oil is hot
- Re-check oil level
- Re-check for leaks with engine running
- Check v-belt tension
- Lubricate governor linkage if applicable
- Check condition of flexible fuel lines
- Check fuel level in main tank
- Check for water in main tank with kolor kut paste
- Check and clean/replace primary fuel filter
- Replace secondary fuel filter(s)
- Check day tank pump and alarms
- Check for leaks in complete fuel system
- Re-check for leaks with engine running
- Check battery condition
- Check specific gravity of batteries and list abnormalities
- Check electrolyte level (fill as required)
- Check battery voltage
- Check battery charger rate
- Check battery terminals and connections
- Check flexible exhaust coupling
- Check rain protection for exhaust system
- Check air cleaner and light test
- Inspect air filter element(s) clean and or replace as needed
- Check air cleaner seal
- Check turbo wheel for bearing wear, free play, tightness, oil leak etc...
- Check air cleaner indicator
- Check for abnormal exhaust characteristics
- Check for looser terminals on all interconnect terminal strips
- Check for loose relays in control system
- Check for broken or worn insulation on generator leads and connections
- Check air gap on generator
- Check engine instruments and record abnormalities
- Lubricate front and rear bearing of generator if required
- Check for abnormal noise or vibration
- Check for proper operation of remote fan motors, thermostats, circulating pump, solenoid valves, etc...
- Check for proper operation of inlet and discharge louvers
- Check all safeties and pre-alarms on control panel and annunciator panels and list abnormalities
- Check for proper voltage and frequency and proper operation of all instrumentation
- Return control to automatic and check engine for proper shutdown
- Check voltage drop across normal contacts of ATS with normal building load
- If unable to transfer ATS jumper remote start contacts and check for proper operation
- Check for proper starting, load transfer and running under load
- Check the following at completion of test
- Cranking control – in automatic
- Circuit breaker – closed
- Phase selector switch 1, 2 or 3 position
- Battery charger – on
- Fuel transfer pump – on
- Fuel valves – open
- Jacket water heater – on
- Remote radiator fan – on
- Louver motor control – on

Every Three Years Service Includes: Level III Generator Service

- Check radiator core for obstruction
- Check coolant inhibitors, add ELC Extender if needed; replace coolant as outlined in the Operation & Maintenance Manual
- Replace radiator cap
- Check for coolant leaks
- Check lube oil level
- Lubricate fan pulley
- Check condition of flexible fuel lines
- Check and clean primary fuel filter; replace as outlined in the Operation & Maintenance Manual
- Check fuel level in main tank
- Check for water in main tank with kolor kut paste
- Check day tank pump and alarms
- Check for leaks in fuel system
- Check exhaust coupling
- Check flexible exhaust coupling
- Check rain protection for exhaust system
- Check and clean crankcase vent
- Replace air filter(s) and check air cleaner seal
- Check turbo wheel for bearing wear, free play, tightness, oil leak etc...
- Check air cleaner indicator
- Check for loose terminals on all interconnect terminal strips
- Check for loose relays in control system
- Check jacket water heater(s) and thermostat(s) for proper operation
- Check oil level in governor (if applicable)
- Lubricate governor linkage and bearing(s)
- Check air gap on generator
- Check for broken or worn insulation on generator leads and connections
- Lubricate rear bearing of generator if required
- Check for dirt or oil build up in generator
- Walk around inspection of complete installation for leaks, loose bolts etc...
- Check engine instruments and record abnormalities
- Check for abnormal noise or vibration
- Check for abnormal exhaust characteristics
- Check for proper operation of remote fan motors, circulating pump, solenoid valves, etc...
- Check for proper operation of inlet and discharge louvers
- Check all safeties and pre-alarms on control panel and annunciator panels
- Check for crankcase blow-by
- If unable to transfer ATS's jumper remote start contacts and check for proper operation
- Check for proper voltage and frequency and proper operation of all instrumentation
- Return control to automatic and check engine for proper shutdown
- If unable to transfer ATS(s) jumper remote start contact and check for proper operation
- Check voltage drop across normal contacts of ATS(s) with normal building load
- Change engine oil and filters
- Re-check for leaks with engine running
- Re-check engine oil level
- Change fuel filter(s)
- Replace coolant hoses
- Replace vee belts
- Adjust valves (if needed)
- Replace battery(s)
- Check battery voltage
- Check battery charger rate
- Re-check battery terminals and connections
- Check the following at completion of test
- Cranking control – in automatic
- Circuit breaker – closed
- Phase selector switch 1, 2 or 3 position
- Battery charger – on
- Fuel transfer pump – on
- Fuel valves – open
- Jacket water heater – on
- Remote radiator fan – on
- Louver motor control – on

For more information, contact Jason Turman at 601.978.0297



What's Included:

Disposal of all waste oil and filters
Written Machine Inspection Report
Documented Maintenance History

What's Not Included:

Daily and Weekly Inspections
Top-off Fluids (Between Services)

Note: Average Contract consists of 6 services over 36 months. The contract price would be the cost per each service for each unit. This price includes all environmental, supplies, travel time and mileage and any applicable taxes. This only applies to visits where actual services are performed.

For more information on this and other services Puckett Power Systems provides, contact:

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