

# SCHEDULED MAINTENANCE REPORT

## Clarke Power Products

Customer #: \_\_\_\_\_

<b>Customer:</b>		<b>Site Address:</b>	
<b>Contact:</b>			
<b>Unit #</b>	<b>Hours -</b>	<b>Phone #</b>	

### ENGINE

- Check engine oil; top off
- Check governor oil; top off
- Check coolant level; top off
- Lub & check governor linkage
- Inspect carburetor linkage
- Lub & check airbox linkage
- Check & adjust fan belts
- Grease pulleys & check belt tension – remote rad. only
- Check & adjust alternator belt
- Inspect & tighten all hoses
- Inspect condition of air filters
- Check injection pump oil
- Inspect breather & airbox drains
- Inspect fuel injection lines
- Inspect flexible fuel lines
- Inspect radiator core
- Visually inspect exhaust system
- Inspect louvers for proper operation
- Check vibration isolators
- Inspect engine wiring & sending units
- Check block heater & verify thermostat is functional
- Inspect distributor cap
- Lub mechanical advance
- Check spark plug wires & boots for deterioration
- Verify raincap is functional
- Take oil sample
- Change engine oil
- Change governor oil
- Change oil filters
- Change fuel filters
- Remove air intake hose & check turbo shaft play
- Check spark plugs
- Check rotor, points & condenser

### FUEL SYSTEM

- Check operation of day tank & controls
- Verify day tank overflow or return is functional
- Check day tank or main tank for presence of water
- Inspect for fuel leaks
- Check gaseous fuel regulator and make certain all vents are clear
- Verify gaseous fuel solenoid is working
- Inspect fuel vaporizer & vent
- Inspect outer tank on double wall tank for presence of fuel

### GENERATOR

- Inspect rear bearing & lub if oil cup or grease fitting is present
- Visually check connection area for loose wires & corrosion & rodent damage
- Check rotating diode connections and surge protector
- Check output connection, if breaker equipped check both sides

### CONTROLLER

- Check rubber iso's on control
- Inspect interior of control for loose wires and corrosion
- Inspect connectors on solid state boards
- Verify operation of selector switches
- Check operation of meters, lamps, & gauges
- Inspect for evidence of rodents

### BATTERIES

- Clean battery terminals & posts
- Spray posts with corrosion inhibitor
- Check level of electrolyte & top off
- Verify tight & clean termination at starter
- Load test batteries with carbon pile tester; note any batteries that are marginal

### BATTERY CHARGER

- Verify proper operation
- Record float voltage \_\_\_\_\_
- Record charge rate after battery load test \_\_\_\_\_
- Check operation of amp & volt meters

### ACCESSORIES

- Inspect enclosure for loose bolts
- Lubricate locks & hinges
- Inspect for leaks & caulk
- Drain exhaust condensation lines
- Inspect remote annunciator for proper operation of switches and lamps

### RUNNING TESTS (no load)

- Record fuel level \_\_\_\_\_
- Record oil pressure \_\_\_\_\_
- Record water temp. \_\_\_\_\_
- Record freeze protection & nitrate level \_\_\_\_\_
- Verify operation of all safety shutdowns and pre-alarms
- Check gas pressure (Natural Gas & LPG Vapor only) \_\_\_\_\_
- Check gas pressure on low pressure side of vaporizer – (Liquid Propane only) \_\_\_\_\_
- \_\_\_\_\_ shutdowns and pre-alarms
- Verify engine DC alternator is charging
- Verify both engine starters are working (dual starter units only)
- Pressure test radiator cap
- "No load" frequency \_\_\_\_\_
- "No load" voltage
- L1 – L2 \_\_\_\_\_
- L2 – L3 \_\_\_\_\_
- L1 – L3 \_\_\_\_\_
- L1 – N \_\_\_\_\_
- L2 – N \_\_\_\_\_
- L3 – N \_\_\_\_\_
- Check for unusual noises or vibrations
- Adjust governor if unstable

### TRANSFER SWITCH #1

- Inspect for loose wires and evidence of heating

- Verify lamps are OK
- Adjust "time of day & date" on Plant Exerciser – if needed
- Record voltage of Normal Power
- L1 – L2 \_\_\_\_\_
- L2 – L3 \_\_\_\_\_
- L1 – L3 \_\_\_\_\_
- L1 – N \_\_\_\_\_
- L2 – N \_\_\_\_\_
- L3 – N \_\_\_\_\_
- Adjust generator voltage to match Normal power voltage
- SIMULATE POWER FAILURE & PERFORM A TRANSFER**
- (Obtain permission from owners personnel before performing these tests)*
- Transfer Switch(es) that can be tested
  - ATS#1 \_\_\_\_\_
  - ATS#2 \_\_\_\_\_
  - ATS#3 \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- Did genset start & transfer to load in 10 seconds or less **YES – NO**
- Verify In-Phase Monitor is functional – if equipped
- Verify TDEN Bypass is functional
- Adjust generator voltage and frequency if unacceptable when under load
- Record total amp load on genset while under load:
  - Amperage L1 \_\_\_\_\_
  - Amperage L2 \_\_\_\_\_
  - Amperage L3 \_\_\_\_\_

### GENERAL OPERATING CONDITIONS

- Verify area around genset is free of debris that could present an operational hazard
- Verify that access to transfer switches is not blocked
- List any concerns regarding operation, safety, and training
- Genset left in AUTO and ATS controls are in AUTO** (if equipped with a MANUAL SELECTOR)

### COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Customer: \_\_\_\_\_

Technician: \_\_\_\_\_

Date: \_\_\_\_\_

1. Items preceded by a "○" are performed during both a Minor and Major Service.  
 2. Items preceded by a "□" are only performed during a Major Service