



START-UP INSPECTION (S.U.I) CHECKLIST

Facility Identification (Name):			
Address:		City :	State/Province:
Postal Code:	Country:	S.U.I. Test Date:	
Clarke Engine Model:	Manufacturer Serial Number:	Engine Serial Number:	
Pump Mfr.:	Pump Model:	Pump Speed:	Right Angle Gear Ratio:
Pump Rating (GPM):	Pump Pressure PSI:	Controller Mfr.:	Controller Model:

Inspection Requirements

Engine Full Load RPM:	Engine Oil Pressure at Full Load (PSI):	Stabilized Engine Temp. at Full Load(°F):
-----------------------	---	---

Check and Correct as Necessary

(Make necessary comments at bottom of form)

STATIC CHECKS (Pre-Start - up):

- Pump set is secured to foundation
- Pump set base is grouted
- Coupling or driveshaft aligned and serviced
- Coolant plugs and coolant installed
- Heat Exchanger discharge piping installed and secured
- Engine pre-heater connected to a dedicated AC power source
- Crankcase oil level full
- Fuel supply and return lines connected, - no galvanized or copper piping, tank at proper elevation, tank filled
- Verify fuel return line check valve direction (if installed)
- Pump room air supply and ventilation equipment complete, adequate, and functional
Size of inlet air louver ____ x ____
- Air cleaner mounted, protective covering removed
- Pump set is properly protected and temperature controlled if necessary
- Exhaust system complete and supported by the building structure, rain protected
- Controller wired according to supplier's instructions
- Batteries filled, secured, connected, and charged

RUNNING CHECKS:

- Manual start at engine panel with fire pump controller in OFF position
 - Manual start at fire pump controller with Engine Panel in AUTOMATIC
 - Water solenoid operation, verify raw water discharge
 - Cooling loop pressure gauge reading ____ psi
 - Engine gauges functioning correctly
 - No leaks at fuel, water, exhaust
 - High coolant temperature alarm verification
 - Low coolant temperature alarm verification
 - Low oil pressure alarm verification
 - High raw water temperature alarm verification
 - Low raw water flow alarm verification
 - Use infrared temp-gun to measure & record engine damper temperature at full load HP: ____ °F or ____ °C.*
 - Overspeed shutdown using verification procedure
 - Clean Y-strainers in cooling loop after all testing is completed
 - Final hour meter reading: ____
 - Work performed by: _____
 - Warranty Registration for engine submitted on-line at www.clarkefire.com
- For Electronic Engines Only:**
- With engine off, switch ECM Selector to Alternate ECM to verify alarm
 - Start engine in Alternate ECM, verify speed setting and no additional alarms
 - With engine off, switch ECM Selector to Primary ECM and start engine to verify normal operation
 - ECM Warning and Failure Alarm Verification

Comments: _____

*NOTE: If engine damper temperature exceeds 200°F (93°C) there could be a torsional issue. Consult pump manufacturer.

Pump Dealer: _____	Serviced by: _____
Address: _____	Address: _____
City: _____	City: _____
Postal Code: _____ Country: _____	Postal Code: _____ Country: _____