

Injection Pump Glossary

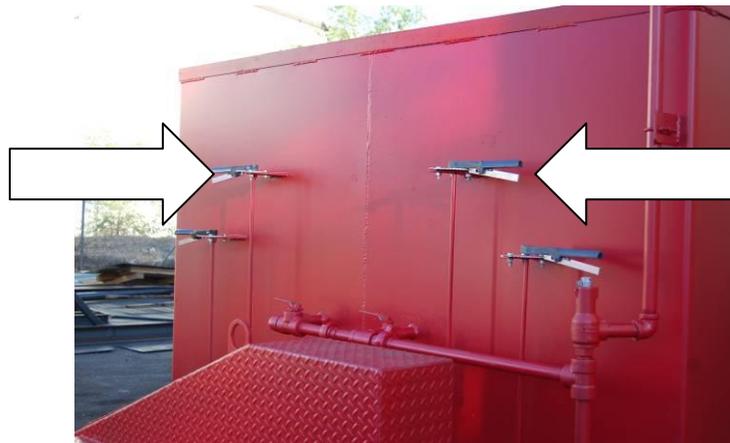
Please be aware this unit produces high pressure compressed fluids. If not used properly, very can be dangerous. This procedure is only a recommended startup procedure and the company assigned to run this equipment should adopt their own startup and run procedure.

Glossary and Procedures

1. Tank fill valves – Valves are tank specific



2. *Kerr feed valve- Always open to feed pump. Always ensure an open flow to pump.*



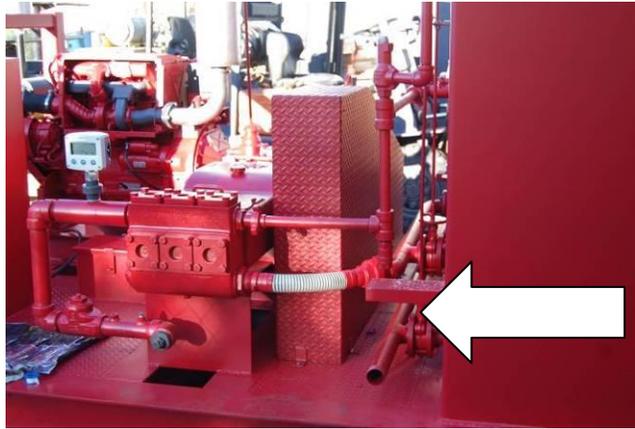
3. High Pressure Gauge



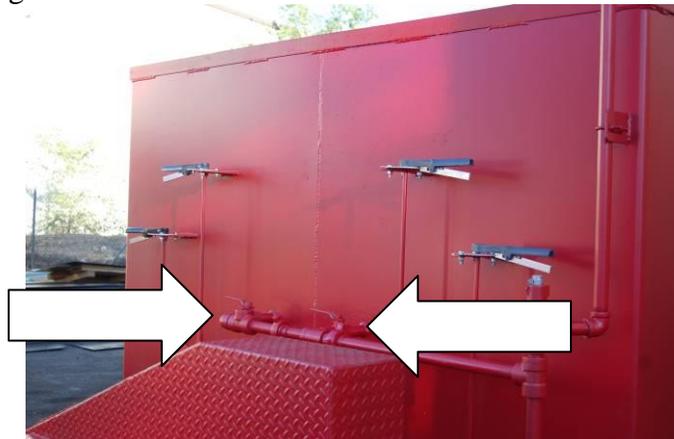
4. Flow Meter



5. High Pressure Drain Valve



6. Tank mixer valves – Connected to High pressure side. Designed to allow Operator to speed up the engine and turn the tanks to keep soap agitated. Also designed to allow flow back if desired minimum flow cannot be reached.

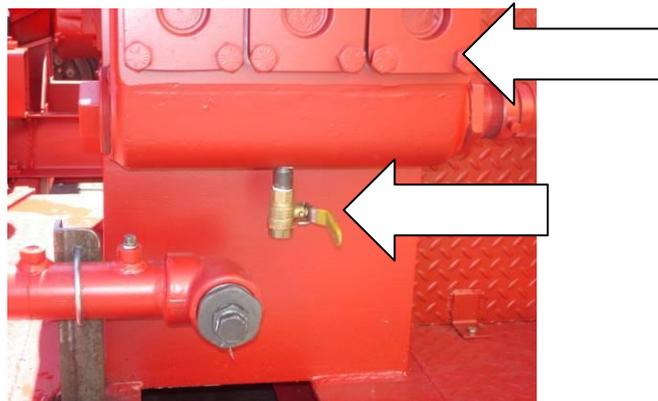


7. 1300 PSI Popoff Valve –

- b.** Test popoff valve at least once every 50 hours. **Caution if the following instructions are not followed damaged to the pump could occur.** Open both mixer valves, close off main pump discharge valve. Start engine and again ensure both mixer valves are open. Open feed valves, allow engine to remain at an idle, engage foot pedal, place unit in 1st gear, check to see if unit is flowing back to tank. If so, close first mixer valve, slowly start closing second mixer valve while maintaining constant visual watch on pressure gauge, as pressure build do not exceed 1,400 PSI. ***If gauge reaches 1400 PSI discontinue test and immediately red tag the unit until Pop off can be replaced. Call ADESCO @ 1-505-918-5595 for replacement part if needed.***



- 8. Low Pressure pump drain–** Drain if temperatures are below 32F. Failure to drain/freezing of fluids can cause extensive damage to pump.



A. Draining procedure for cold weather applications

- a. Open valve. Remove low pressure caps and take a pry bar and lift suction springs. Allow fluids to drain off.
- b. Remove high pressure caps and take a pry bar and lift suction springs. Make sure all high pressure valves are open. Allow fluids to drain off.***



Startup Procedure

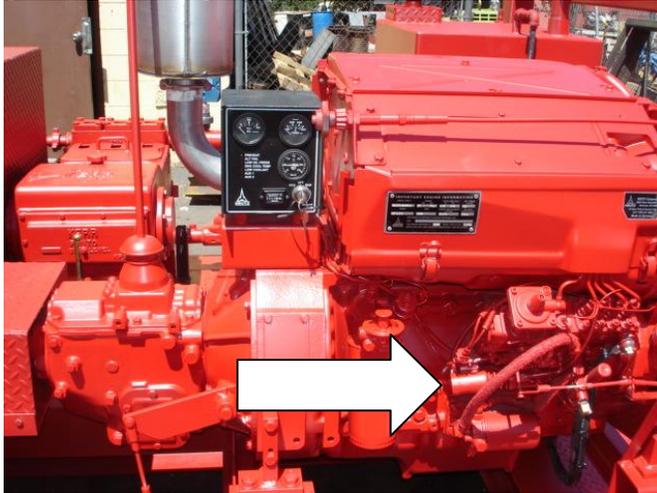
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Initial Walk Around

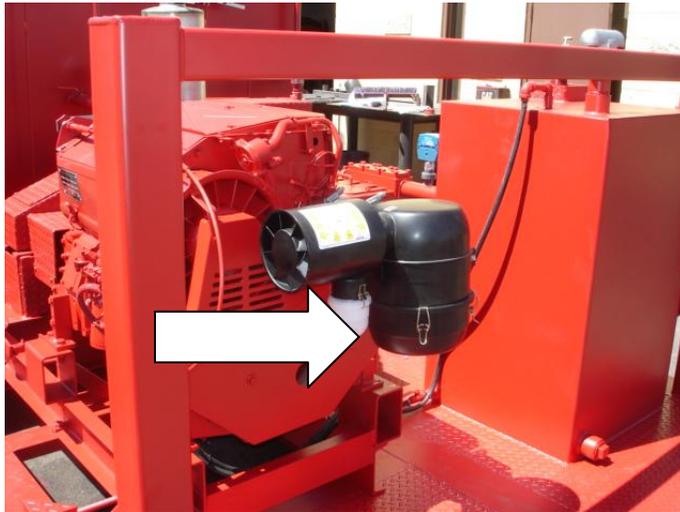
1. Start initial walk around at the same point each time you plan on running the unit.
 - c. **This will promote a standard walk around procedure.**
2. Start the visual inspection as follows:
 - a. Ensure unit is level
 - b. Ensure the unit is properly fueled



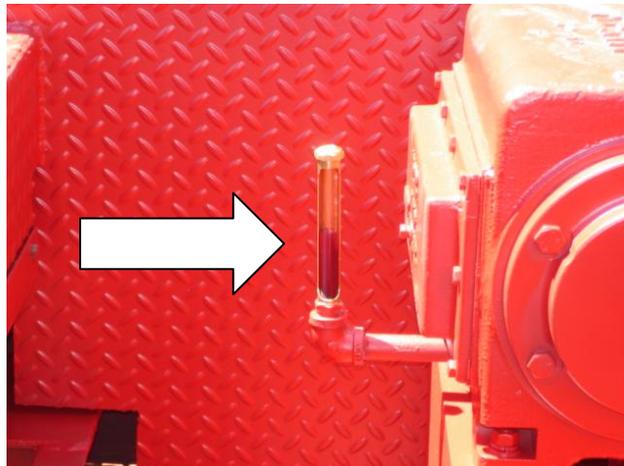
3. Check Engine oil – Change every 250 hours or if needed



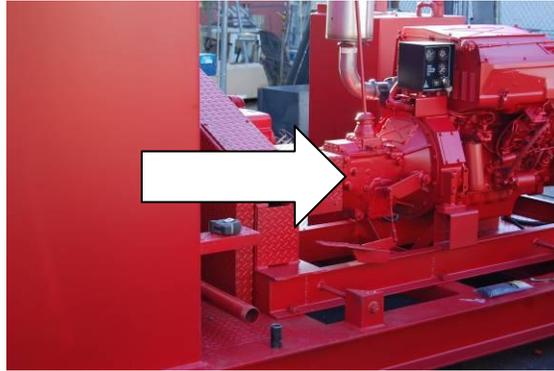
4. Check oil bath air cleaner



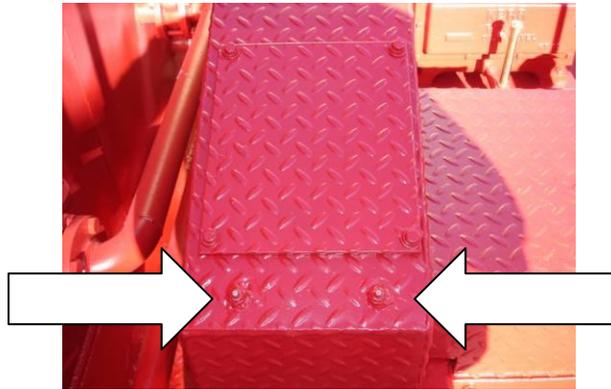
5. Check Kerr Pump Level– Watch for water in oil. Change every 1000 hours with *75W Synthetic Oil only.*



6. Check transmission oil. – Check at 250 hour maintenance cycle – Change at 1000 hrs.



7. Grease Pillow Blocks at least once a week or 25 hours



8. Once inspection is complete move to starting unit.

Starting Procedure

Ensure all high pressure valves are open prior to starting.

- a. The following valves **must** to be open:
 - i. Main customer provided valve
 - ii. Mixer valves are all in the open position
- b. Kerr pump supply valves are open
- c. Transmission is in the neutral position
- d. Start engine, allow warm up time at idle speed.
 - i. Minimum running temperature 150 F.
- e. Engage clutch pedal and place transmission in desired gear. Gear will determine flow. **Never engage transmission with engine above idle. Damage to the entire system can occur. Slowly close mixers valves.**
- f. Slowly begin to increase engine RPM to achieve desired flow.
- g. **Keep a close eye on pressures to ensure the pressure does not exceed rated popoff pressures.**

Shutdown Procedure

1. Slow engine down to an idler
2. Engage clutch pedal and place engine in neutral
3. Open mixer valves
4. Allow engine to cool down
5. Shut down engine

If in cold weather climates follow cold weather draining procedures.

End.