



Midship Pump Maintenance Check List

Truck Manufacturer _____
 Pump Model & Serial Number _____
 Year _____ Unit# _____

RECOMMENDED WEEKLY PROCEDURES

- ☐ Test relief valve system or governor at 150, 200, 250 PSIG.
- ☐ Test transfer valve (if applicable).
- ☐ Test the priming system (check lubrication level in priming tank were installed).
- ☐ Lubricate all valves, discharge, suction, hose, drain, and multi-drain.
- ☐ Check pump shift warning indicator lights.

RECOMMENDED MONTHLY PROCEDURES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Complete weekly checks												
Lubricate threads on PM relief valve panel control and check light												
Lubricate remote valve controls												
Check controlled packing leakage and adjust if necessary (8 to 10 drops per minute)												
Perform dry vacuum test*												
Check drive flange bolts to ensure tightness												
Lubricate suction tube threads												
Clean strainer												
Inspect gaskets												
Check oil level in pump gearbox; add oil if necessary												
If necessary, replace oil with SAE EP 90 oil												

*Per NFPA-1911, 22 inches Hg minimum vacuum: loss not to exceed 10 inches Hg vacuum in 5 minutes.

RECOMMENDED ANNUAL PROCEDURES

- ☐ Complete all previous checks on all questions.
- ☐ Check gauge calibration.
- ☐ Check oil level in AutoLube® assembly (SAE-EP 90 or 80W-90); see operation and maintenance manual for details.
- ☐ Lubricate power transfer cylinder, power shift cylinder, and shift control valve with vacuum cylinder oil, if applicable.
- ☐ Change pump gearbox oil and refill (SAE-EP 90 oil or 80W-90).
- ☐ Clean ESP Primer body and head using Safety Kleen™ or Stoddard solvent.
- ☐ Check individual drain lines from pump to multi-drain to ensure proper drainage and protection from freezing.
- ☐ Lubricate transfer valve mechanism on two stage pumps. Dry moly spray is preferred.
- ☐ Run yearly standard pump test (per NFPA-1911) to check pump performance levels – chart provided below.
- ☐ For pumps with packing: Repacking of pump is recommended every two or three years.

NOTE: The above general recommendations are provided for normal use and conditions. Extreme conditions or variables may indicate a need for increased maintenance. Good preventative maintenance lengthens pump life and ensures greater dependability. Consult service or diagnostic chart in operator's manual for detailed information.

ANNUAL PUMP TEST RESULTS

	Capacity @ 150 PSI	70% Capacity @ 200 PSI	50% Capacity @ 250 PSI
Hose Layout			
Nozzle Size			
Nozzle Pressure			
Gallons Per Minute			
Pump Pressure Current Engine Speed			
Engine Speed from Original Test Documents			
Lift and Suction Hose Size and Number			