



PATTERSON PUMP COMPANY / A Gorman-Rupp Co.
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General Pump Inspection and Maintenance Schedule End Suction Pumps

Excludes motors, engines, gear drives, VFD's, and controls.

Actions required only for specific pump types are so noted.

The symbol (■) used in the table below indicates that the action indicated may not be applicable to a specific pump of a particular type. For more information regarding inspection and maintenance requirements refer to the Patterson O & M manual supplied with the pump. Contact Patterson Pump Company if assistance is needed to determine the inspection and service requirements for a specific pump.

| Inspect (✓) or service (●) at the indicated calendar time or run time interval – whichever comes first | Routinely | Monthly | 2000 hours or 3 months | 4000 hours or 6 months | 8000 hours or 12 months |
|---|-----------|---------|------------------------|------------------------|-------------------------|
| Unusual noise | ✓ | | | | |
| Unusual vibration | ✓ | | | | |
| Unusual temperature | ✓ | | | | |
| Leaks in pump or piping | ✓ | | | | |
| Pressure gauge readings | ✓ | | | | |
| Visual inspection of equipment general condition | ✓ | | | | |
| Anytime a pump is opened, inspect the running clearances and restore them to original specifications if the running clearances have doubled (adjust ring clearances if so supplied or install new wear rings) | ✓ ● | | | | |
| Anytime a pump is opened, inspect the impeller for corrosion or excessive wear. | ✓ ● | | | | |
| Packing box – verify slight leakage (if excessive, adjust gland or seal water valve; replace packing if required) ■ | ✓ ● | | | | |
| Mechanical seal (should be no leakage) ■ | ✓ | | | | |
| Drain lines are working properly ■ | ✓ | | | | |
| Coupling integrity (Inspect Material and Inserts)■ | ✓ | | | | |
| Operate the pump | | ✓ | | | |
| Tightness of foundation and hold-down bolts | | | ✓ | | |
| Check coupling alignment and integrity (torque Set Screws - 30 in-lbs (maintain records) ■ | | | ✓ | | |
| Add grease to pump anti-friction bearings (maintain records) ■ | | | ● | | |
| Add grease to coupling (maintain records) ■ | | | ● | | |
| Replace packing (all packing; not just the outermost ring) ■ | | | | ● | |
| Clean and oil gland bolts (packed pumps) ■ | | | | ● | |
| Verify free movement of packing glands (packed pumps)■ | | | | ✓ | |
| Clean packing box | | | | | ● |
| Check and flush seal water and drain piping | | | | | ● |
| Perform a comparative field test (flow, pressures, and power) with calibrated instruments. Restore internal running clearances if results are unsatisfactory (install new wear rings). | | | | | ✓ ● |
| Perform a comparative vibration test | | | | | ✓ |
| Remove packing and inspect sleeve(s). Replace if worn. (packed pumps) ■ | | | | | ✓ ● |
| Realign coupled pumps (maintain records) ■ | | | | | ● |