

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	4 hours	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		✓				
<u>Visual inspection of equipment general condition</u>		✓				
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 ■		✓				
Operate the pump			✓			
Tightness of foundation and hold-down bolts				✓		
Check coupling alignment and integrity (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) ■						•