



PUMP TROUBLESHOOTING GUIDE

Condition	Likely cause	Correction
No oil flow from pump	No oil in oil tank	Fill oil tank with approved fluid.
	Closed shut-off valve	Open valve
	Air lock in pump inlet hose	Use compressed air to pressurize reservoir while running pump or fill inlet hose with oil from the pump end
	Pump is wrong rotation for application	Replace or re-configure pump to correct rotation
	Hoses are reversed	Change inlet and pressure hose locations
	PTO not engaged	See "PTO Troubleshooting"
	Pump worn or damaged	Repair or replace pump
Pump will not build/hold pressure	Relief valve improperly set	Adjust relief valve to manufacturers specification.
	Relief valve stuck open	Remove, clean, and re-set to specification
	Pump worn or damaged	Repair or replace pump
Pump is noisy	Aeration (air in system)	See "Oil foaming"
	Cavitation (Cavitation is caused by excessive vacuum at the pump inlet. Test with a vacuum gauge at the inlet port. Gauge should register under 5 Hg/in. at normal operating speed and temperature.)	Increase inlet hose size. Re-route inlet hose. Check for kinked or collapsed inlet hose. Check for clogged reservoir breather or strainer
Pump leaks; At shaft seal	Dirt under seal	Replace seal. Examine pump shaft for scoring
	Damaged seal or pump body.	Replace seal or body section.



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Pump leaks; At shaft seal	Improperly fitted seal	Replace seal
Pump leaks; At body section	Damaged o'ring or body	Replace o'ring or body section
	Improper torquing of bolts	Torque to specification
Pump leaks; At pump port (Do not use Teflon tape on pipe thread fittings!)	Loose fitting	Tighten fitting
	Damaged fitting	Replace fitting
	Damaged pump body	Replace body section
Pump is hot. (Oil temperature should not exceed 60° C { 140° F })	Low oil level	Fill tank
	Tank is too small	Increase tank size
	Dirty oil	Replace oil and filter
	Relief valve stuck open	Remove, clean and reset
	Relief valve improperly set	Adjust relief valve to manufacturer's specification
	Pump too large for application	Review application. Replace with correct model.
	Undersized system component	Review application. Replace with correct model.
	Improper weight oil	Replace with correct oil
Oil foaming	Loose inlet fitting	Tighten fitting
	Damaged shaft seal	Replace seal
	Leak in inlet hose	Replace hose
	Improper tank baffle	Install baffle or diffuser