Diagnosis & Maintenance, UDOR U.S.A. Plunger Pumps		
Problem	Probable Cause	Solution
Low Pressure	Worn or Plugged Nozzle	Replace or clean nozzle, of proper size.
	Belt Slippage.	Tighten or replace belt.
	Air leak in inlet plumbing.	Disassemble, reseal and reassemble.
	Pressure gauge inoperative or not registering accurately.	Check with new gauge; replace worn or damaged gauge.
	Relief / unloader valve stuck, partially plugged or improperly adjusted; valve seat worn.	Repair/replace and adjust relief / unloader valve; check for worn and dirty valve seats.
	Inlet suction strainer clogged or improper size.	Clean, use adequate size, check more frequently.
	Worn seals. Abrasives in pumped fluid or severe cavitation. Inadequate water supply.	Install and maintain proper filter. Replace seals. Check inlet water supply. Max. 6 in. inlet vacuum.
	Fouled or dirty inlet or discharge valves.	Clean inlet and discharge valve assemblies.
	Worn inlet or discharge valves.	Replace worn valves.
	Leaky discharge hose.	Replace discharge hose.
Pump runs extremely rough,. pressure very low	Restricted inlet or air entering the inlet plumbing.	Proper size inlet plumbing; check for air tight seal at fittings & filt
	Inlet restrictions and/or air leaks. Stuck inlet or discharge valves.	Replace worn seals, clean out material in valves or replace worn valves.
	Plugged Inlet Filter	Clean or replace filter.
Water leakage from under the manifold.	Worn inlet seals, Cracked plunger.	Replace seals. Install new plungers.
Oil leak between crankcase and pumping section.	Worn crankcase oil seals.	Replace crankcase oil seals.
Oil leaking in the area of crankshaft.	Worn crankshaft seal, bearing or case o-ring.	Replace crankshaft seal, bearing or case o-ring.
	Bad bearing.	Replace bearing.
Excessive play in the end of the crankshaft	Worn bearing.	Replace ball bearing.
Water in crankcase.	May be caused by humid air condensing into water inside the crankcase.	Change oil at 3 month or 500 hour intervals using UDOR LUBE ( or SAE 30W non-detergent oil).
	Worn or improperly installed inlet water seals.	Replace seals. Follow proper installation procedures. Contact UDOR pump supplier for servicing.
Oil leaking at the rear portion of the crankcase.	Damaged or improperly installed sight glass or crankcase rear cover gasket and drain plug gasket.	Replace sight glass, crankcase cover gasket or drain plug gasket.
Loud knocking noise in pump.	Pulley loose on crankshaft.	Check key and tighten set screw.
	Broken or worn bearing.	Replace bearings.
Frequent or premature failure of the packing	Scored plungers. Over pressure to inlet manifold. Abrasive material in the fluid being pumped. Excessive temperature of fluid being pumped Running pump dry.	Replace plungers Reduce inlet pressure. Max. 75 PSI. Install proper filtration on pump inlet plumbing. Assure fluid inlet temperature are within specified range. Max. 160° DO NOT run pump without fluid.
Strong surging at the inlet and low pressure discharge.	Foreign particles in the inlet or discharge valve or worn inlet and/or discharge valves.	Replace worn valves. Check supply tank for contamination. Install and regularly clean filter. Never pump abrasive fluids.