

CRYSTEEL MFG. INC.
PARKER HANNIFIN TROUBLE SHOOTING GUIDE

ISSUE DATE: 01/06/03
REVISION LEVEL: 00
REVISION DATE: 01/06/03
AUTHORIZED BY: REX SPARKS

ID#

10524

This document is to be used as a guide to trouble shoot problems with Parker Hannifin pumps.

What to do if customer says: *The pump is making noise.*

- Check the reservoir oil level and fill as required.
- Remove and inspect inlet hose for blockage and replace as needed.
- Clean or replace the reservoir breather cap.
- Possibly the oil is too thick. Change to a lower viscosity.
- Be sure the suction and return lines are well submerged in the reservoir.

What to do if customer says: *The pump is overheating.*

- Disengage pump PTO when traveling.
- There may be an internal leak due to wear. Replace pump as required. Check oil cleanliness, replace if dirty.
- Possibly the oil is too thick. Change to a lower viscosity.
- Check for wear or contaminant in the relief valve seat.

What to do if customer says: *The pump is leaking externally.*

- Replace pump as required. Clean reservoir and replace oil.

What to do if customer says: *The pump won't deliver fluid.*

- Check the reservoir oil level. Fill as required.
- Remove and inspect the suction line hose for blockage or collapse. Replace or remove blockage as required.
- Check the rotation against indicator at front of pump.
- There may be an air leak in the suction line preventing priming of the pump. Eliminate the leak.

What to do if customer says: *There is low oil flow from the pump.*

- Check the pressure. The relief valve may be set too low.
- The relief valve may be leaking. Check seat for foreign material or damage.

What to do if customer says: *They cannot achieve full pressure.*

- The pump may be worn due to excessive contaminants, air, or excessive pressure. Replace the pump. Clean the reservoir and replace the oil.
- Check the pressure. The relief valve may be set too low.

What to do if customer says: *There is no pressure in the system.*

- Check the reservoir oil level. Fill as required.
- Remove and inspect the suction line hose for blockage or collapse. Replace or remove blockage as required.
- Check the rotation against indicator at front of pump.
- There may be an air leak in the suction line preventing priming of the pump. Eliminate the leak.
- Check the pressure. The relief valve may be set too low.
- The relief valve may be leaking. Check seat for foreign material or damage.

What to do if customer says: *The pump will not hold a load.*

- The valve spool may not be completely in the neutral-hold position. Check the linkage and adjust as needed.
- There may be foreign material in the hold check valve or in the relief valve seat. Remove the relief valve and clean it out.

What to do if customer says: *The load raises in all positions.*

- If it is a two-line installation, check to see that there has not been a sleeve installed. If so, remove the sleeve.
- Casting core in the valve is blocked. Replace the pump.