

DULTMEIER SERVICE MEMO

DSM# A-100-25- PUMPS (Pg. 1 of 1)

Issue Date: 06-06-20 Rev.1.1

PROBLEM: Grease lubricators and remote barrier fluid reservoirs building pressure and filling up with carrier / UAN products causing premature seal failure.

ROOT CAUSE: UAN that is not completely stabilized during manufacturing, is delivered with free ammonia with-in the UAN. When the UAN is exposed to varied temperatures and warmed up the free ammonia is released from the UAN and builds pressure in sealed lines.

SOLUTION: Install a relief valve in the system near the discharge side of the pump.

REQUIRED PARTS: KIT # DUPSRK-1/4

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| • CT304-1/4X4 | Stainless steel 1/4" x 4" nipple |
| • CT7BR1214 | Stainless steel 1/2" x 1/4" bell reducer |
| • SS23120PP-1/2 | Pressure relief valve |
| • AHWGGSS100 | 100# Pressure gauge stainless steel |
| • LPPC1412 | 1/2" MPT x 1/4' female tube |
| • High density Teflon tape | Not included in the kit |
| • Loctite 567 thread sealant or similar | Not included in the kit |
| • 1/4" Tube | Not included in the kit |

STEPS FOR SOLUTION:

1. Drain the pump housing
2. Use thread sealant and high-density Teflon tape on all threads.
3. Install the CT304-1/4X4 nipple in the 1/4" port.
4. Install the CTBR1214 bell reducer on the 4" nipple.
5. Attach SS23120PP-1/2 relief valve to the bell reducer.
6. Connect the LPPC1412
7. Install gauge AHWGGSS100
8. Attach 1/4" Tube to the LPPC1412 and run to a catch reservoir.

FINAL STEPS:

- With the relief valve backed out, run the system, and see what the operating pressure of your system is. You may want to run several loads to get an average operating pressure.
- Once the normal operating pressure has been determined, set the relief valve between 10-15 psi over the normal system operating pressure.
- If you are using a Scot pressure seal remote assembly with a barrier fluid reservoir, charge that reservoir 10 psi higher than system operating pressure. Then set the relief valve 10-15 psi higher than the barrier fluid reservoir.