



TECHNICAL SERVICE BULLETIN

Bulletin Number: DC-2179

Date: 1/20/06

Affected Model(s): QLS 401, QLS 421

Subject: Grease Contamination
Possibilities/Extreme Dust Conditions

Our QLS 401 and QLS 421 pumps were developed to overcome grease separation and other reported issues experienced in various applications using the previous QLS 301/321 models. With the changes to the new paddle style pumps came another required improvement, the addition of a new vent hole (#2 on the attached depiction) on the back of the reservoir. The additional vent is required for users that want to speed up the filling process or choose to use a filler pump with higher volume output. The front vent hole alone (#1 on the attached depiction) was not effective enough with the 301/321 units and in some cases it was reported that users were actually pushing the reservoirs off of the pump housing because there was not enough pressure venting.

Recently we have heard of possible grease contamination issues with the pumps in extreme dusty conditions. In our lab we have determined that the issues arose from a "cross ventilation effect" that arose after the addition of the back vent. Testing proved that in extreme conditions dust in the air was actually drawn into the reservoir thus contaminating the grease. Initially we began sealing the front vent hole (#1) with silicone. The effects of the dusty conditions diminished greatly but we also felt that a filter may be required for the larger rear vent hole (#2). We therefore designed a plug for production to place in the front hole and an optional filter element for the back vent hole.

The optional filter element kit is a part number 274386. It includes a polyester felt filter element and instruction sheet. The filter can be removed and cleaned as necessary with solvent, but in extreme dusty conditions it would be recommended to keep a supply on hand.

If you have any questions or concerns, please do not hesitate to call Lincoln Technical Services at 314/679-4200, ext. 4782, or fax us at 314/679-HELP (4357).

Regards,

Barry Frankum

