



October 20, 1978

SERVICE BULLETIN #38

TO: HALE MIDSHIP CUSTOMERS & SHOP PERSONNEL

SUBJECT: Long Term Midship Pump Storage

Gentlemen:

In the past few months we have experienced some problems with pumps held in storage by our customers. You should take some precautionary steps to avoid these problems with midship pumps held in storage for an extended period of time prior to running the pump on your truck.

The potential problem results from inactivity, causing the oil seals in the gear box to lose their lubricant. Further, rust and dirt particles between the impeller and clearance rings can become solidified and quickly cause damage to the new clearance rings when run dry, and it is possible to get some sticking at the packing area. All these things will generate excessive heat if a brand new pump is engaged suddenly and run fast. Therefore, we strongly suggest the following "break in" procedure to be followed for all pumps held over 30 days:

- 1) Fill the gear box with 90 weight oil.
- 2) Squirt light machine oil around oil seal on drive unit and into the impeller/clearance ring area thru the 1/4" drain hole in the bottom of the pump volute area. (Use pumping type oil can with bent nozzle hitting sides of impellers.)
- 3) Immediately after above, rotate flanges by hand first in "road" position and then in "pump" position at least two complete revolutions.

This lubrication and hand rotation is suggested to "free up" the drive unit, seals, packing and clearance rings prior to the sudden thrust imparted from the engine on initial start up.

Additionally, we recommend that the pump be filled with water and taken to the test area; then before removing the suction cap and connecting the suction hose, engage the pump and run at a low idle speed with water in it for several minutes.

Even though we run dynamometer tests on every pump, the above "break in" steps will ensure that a pump that has been in storage for some time will be ready in all respects for its U.L. test.

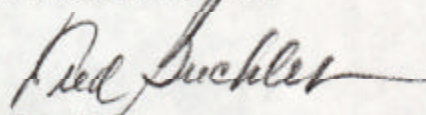


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We will also implement a similar oiling procedure at our facility prior to shipping. Our procedure will offer a degree of protection before storage; however, we urge you to adapt the above policy for pumps you currently have in storage and all future pumps that will be held in storage over 30 days.

Very truly yours,

HALE FIRE PUMP COMPANY

A handwritten signature in dark ink, appearing to read "Fred Buchler", with a long, sweeping horizontal stroke extending to the right.

Fred Buchler  
Manager, Customer Service

FR:jol