

May 28, 2021

## **PRODUCT NAME: SG Gearbox**

In order to increase gearbox cooling capacity on SG gearboxes for pumps rated at 1750 gpm and higher, Hale added a second cooling tube after 2018. While the original cooling tube is straight, this 2<sup>nd</sup> cooling tube is curved to allow it to avoid the sliding input gear. If the straight cooling tube and sliding gear. This service bulletin outlines the method to check for the 2<sup>nd</sup> cooling tube, provides the replacement part numbers, and describes the replacement process.

## 2<sup>ND</sup> COOLING TUBE IDENTICATION & PARTS

Visual inspection of your gearbox will confirm the presence of the 2<sup>nd</sup> cooling tube. No immediate action is needed, but these tubes cannot be interchanged if disassembly of the gearbox is required.

- The Primary cooling tube is the standard copper, straight 1/2" OD tube (shown in Hale PL914).
- The 2<sup>nd</sup> cooling tube is the additional copper, curved 3/8" OD tube. The 2<sup>nd</sup> cooling tube is located 1.75" below the primary cooling tube.
  - Tube part number: 007-00167-000
  - Fitting part number: 082-0422-03-0 (1/2" MNPT x 3/8" Compression, Straight)









## REPLACING THE 2<sup>ND</sup> COOLING TUBE

If replacement of the 2<sup>nd</sup> cooling tube is required, follow these steps:

- 1) If the vehicle components will not allow the cooling tubes to be removed with the gearbox installed, drop the gearbox from the pump.
- 2) Shift the gearbox into pump mode.
- 3) Remove the tail shaft.
- 4) Remove the brass fittings holding the original 2<sup>nd</sup> cooling tube in place and remove the 2<sup>nd</sup> cooling tube.
- 5) Install the replacement 2<sup>nd</sup> cooling tube and fittings and ensure that this curved tube is oriented up and away from the sliding input gear. Before fully tightening the fittings around the tube, manually move or shift the sliding input gear to check for clearance between it and the 2<sup>nd</sup> cooling tube.
- 6) After tightening the fittings around the 2<sup>nd</sup> cooling tube, check clearance around the drive gear again.
- 7) Re-install the tail shaft and the gearbox.





Note: Plate drawing PL914 has been updated: PL914AK G SERIES GEARBOX.pdf (haleproducts.com)

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