



SERVICE INFO LETTER	REABE DESIGN LLC		NUMBER: GATE 01
	2552 Coreland Ct, DePere, WI 54115		DATE: 01/01/2024
BY: TRR	TITLE: 7.5" GATE GREASE	REV: 1	PAGE: 1 OF 1
CHKD: TRR	SUBTITLE: GEARBOX SERVICING		

Subject

7.5" Smart Gate Gearbox Servicing with Grease

Issue

The gate could be actuated manually but when trying to actuate using the open/close switch or cleanout button the gate would twitch but not open to commanded position.

Summary

The gearboxes on the 7.5" gate are sealed using silicone to seal the seams and Double Lip seals on the shaft penetrations. The Grease fitting allows grease to only enter the gearbox, the Vent only allows air to enter or exit the gearbox. There is no means to allow excessive grease to exit the gearbox. After two years of successive servicing of the gear box without letting any grease out of the gear box the gearbox was over loaded with grease and the grease was resisting the rotation of the gears. The Smart Gate sensed this resistance and interpreted it as a manual override signal from the Pilot, causing the gate to stop the commanded movement.

To alleviate and prevent this problem, after greasing of the gearbox per ICA-8 procedures, Remove the Grease fitting and actuate the gearbox multiple times to push excessive grease out of the gearbox. Reinstall Grease Fitting in gearbox.