Alarm 2075: Axis Lubrication Reservoir Empty TSG Checklist

Technician		**Cell#**	
Serial Number		**Date**	
Model			

Description of Case

How often is the alarm generated? (daily, weekly, monthly)	
Does the customer turn machine off or e-stop, at night, over weekends?	
Date of last two axis oil refills.	
Was the machine converted to HLG?	
How many hours of axis motion per day?	

Additional Information:

Mandatory Troubleshoting

1) Verify the machine is receiving correct air pressure.	
2) Verify that the reservoir has oil and refill if needed.	
3) Verify that the solenoid is functioning properly.	
4) Verify that the HALO manifold is receiving air.	
5) Verify that the HALO manifold is configured properly for the machine.	
6) Verify LOW_AXIS_GREASE_PRESSURE_ initial value = **1** and the bit changes in the cycle.	
6a) Verify AXIS_GREASE_PUMP_ initail value = **0** and the bit changes in the cycle.	
7) Verify the HALO manifold is not leaking oil or air.	
8) Disconnect all lubrication lines and plug outputs at the HALO manifold. Does the gage at the manifold drop suddenly?	
8a) If the answer to step 9 is yes. Remove and check the condition of the check valves located at the top and bottom of the HALO manifold. If they are stuck or damaged, clean or replace them.	
9) Remove all but one lubrication line, plugging the others to block flow. Using a non-check valve port on the HALO manifold, purge this line, note if the pressure drop is rapid. Do this for each of the lines independently. The line or lines which fail need to be inspected.	
9a) Which of these lines has failed the test, upload photo indicating the line or lines and a video of the failure. If none failed move on to step 10.	
9b) Inspecting linear axis lube distribution. Clean the axis assembly and observe a lubrication cycle. Is the axis manifold, or are any of the fittings leaking? Tighten and re-test. Note the location in a photo if there is a leak.	
10) To purge the system of air individually gain access to the axis oil manifolds. Disconnect the polyurethane line from the axis manifold / tool changer or C-axis. Manually cycle the solenoid until the air is purged and the oil is breaching the end of the line. Reinsert all into the axis manifolds. Repeat for all lines. NOTE: Air may be trapped in the middle of the lines.	
10a) Run 5 lubrication cycles in the diagnostic tab, wait one minute in between each cycle. Verify that the low lube icon or the 2075 alarm do not generate.	
11) Generate an error report and submit with this checklist.	
12) Refill the oil reservoir if needed.	

Notes/ Observations:

Attach this report, an error report, and any relevant documentation to a service notification in the Haas Service App.