

From: **Mark Russell**

Date: Wed, May 28, 2025 at 11:35 AM

Subject: Boom Inspection & Repairs

To:

Cc: Matt McEachern -Shop2

Good Morning Patrick, we have now completed the rest of the inspections on this unit, please see attached for the inspection costs and the repairs required to get this unit certified by the engineer, below is the list of other repairs/items that the tech has noted during our mechanical inspection, which we are currently working on gathering pricing and lead time for, but in the meantime if you wish to proceed with the repairs to get this unit certified, we can get the bucket removed and get both it and the fiberglass upper boom repaired. As well as repairing the cracked gusset welds on the pedestal.

- all safety & control decals either missing or painted over, will need to be replaced with new
- both 5 degree bubble levels missing, will need to be replaced with new.
- leaking valve by hydraulic pump under truck, should be able to reseal
- hydraulic oil level is low, condition is cloudy, recommend draining tank and replacing with new hydraulic oil
- replace hydraulic return filter after oil has been drained
- upper boom lift cylinder leaking, should be able to remove cylinder and reseal/rebuild cylinder (pins & bushings may be seized and might require new replacement pins/bushings)
- dangling toggle switch in pedestal, will need to be remounted, switch also doesn't seem to be working so may need to be replaced
- wires broken underneath truck, will need additional time to verify operation of wires and repair
- hydraulic pump leaking, recommend replacing with new
- play in driveshaft/U joints for hydraulic pump (will need new U joints, possibly new driveshaft to match new pump splines)
- p/s outrigger raise/lower control valve getting stuck in down position, recommend replace valve with new
- unit missing several covers, including: lower control, pinion gear, d/s pedestal, lower boom inspection covers
- all hydraulic hoses are weathered/cracked, fittings sweating and one hose has a bubble in it located by upper control valve. No hoses are leaking yet but possible will start to once unit gets used on a regular basis again.
- bucket leveling chains/sprockets inside booms covered in dirt & debris, recommend clean chains/sprockets and re-lube chains
- bolts for boom tip cover broken, will need to drill out, re-tap holes and install new bolts
- pto on light burnt out, possible to replace just the bulb, if not new light would be required.
- both air plungers seized at upper controls, will need to replace with new and then verify operation of throttle & emergency power functions after plungers have been replaced
- lower control valve spools intermittently sticking, possible to try and free them up, may need a valve replacement if the sticking gets worse.
- rotation bearing worn, unit close to maximum allowable axial movement, will need to be replaced in the near future (removal of booms/turret required for bearing access)
- unit missing hydraulic & electrical collectors which allows for continuous boom rotation, will need to be replaced with new collectors. Currently there is nothing stopping the boom from rotating around numerous times and twisting the hoses/wires inside the pedestal.
- throttle switch in cab not working, but unit has cable throttle as well that does work, so possible unit was converted to cable throttle at some point, would need additional diagnostic time to
- rear strobe on top of dump box broken, can replace with new if customer prefers (would need to verify strobe wiring in dump box is working)

Thank You,

**Mark Russell**

Customer Service Representative

Telephone 780.960.6826 x6113

Toll-Free 1.800.661.7335 Fax 780.960.6138 E-Mail [mrussell@driveproducts.com](mailto:mrussell@driveproducts.com)

Address 11465-259 St., Acheson, AB T7X 6C4