SUPERSEDES LO 5-4610-215-12, 9 JANUARY 1989

WATER PURIFICATION UNIT, REVERSE OSMOSIS 600 GPH, TRAILER MOUNTED, FLATBED CARGO, 5 TON, 4 WHEEL TANDEM ROWPU MODEL 009610900, NSN 4610-01-234-2196 AND 600 GPH SKID MOUNTED ROWPU MODEL 0996108001, NSN 4610-01-234-2190

References: TM 10-4610-239-10 and Federal Supply Catalog C9100-IL. DISTRIBUTION STATEMENT A: **Approved for public release;**, **Distribution is unlimited.**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. Marine Corps personnel submit NAVMAC 10772 Form to Commanding General, Marine Corps Logistics Base, (Code 850), Albany, GA 31704-5000. A reply will be furnished directly to you.

This LO is for operator/crew (C) or unit (0) maintenance. Lube intervals (on-condition or hard time) are based on normal operation. Lube during constant use, and less during inactive periods. The task-hour specified is the time you need to do all the services prescribed for a particular interval. Use correct grade of lubricant for seasonal temperature expected.

For equipment under manufacturers warranty, hard time oil service intervals shall be followed. Intervals shall be shortened if lubricants are known to be contaminated or if operation is under adverse conditions (such as longer than usual operating hours, extended idling periods, extreme dust).

Chemical feed pump and R.O. pump oils must be sampled at 100 hour intervals as prescribed by TB 43-106. Oncondition (OC) oil sample intervals shall be applied unless changed by the Army Oil Analysis Program (AOAP) laboratory.

Ensure ROWPU is level before checking oil levels in chemical feed pump and R.O. pump. Drain oils while they are warm. Lubricate trailer immediately after fording, or as soon after unit movement permits. Dry equipment before lubricating. On the picture, a dashed line (--) means there are lubrication points on both sides of the 3quipment.

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Before you start lubrication:

ALWAYS

• Clean dirt from grease fittings using a clean wiping rag.

• Use the lubrication order as your guide.

• After lubrication, wipe excess grease from fittings to prevent build up of dirt, grit, and contaminants.

NEVER

• Use wrong type/grade of grease.

• Use too much lubricant.

• Use any type of solvent to clean trailer trunnion axle grease fittings.

Temperature Range	Lubricant Mil Symbol (NATO Code) Specification	Capacity Hour	Interval	Task
Above +32°F (0 C)	OE/HDO 15/40 (0-1236) MIL-L-2104	3.5 Quarts	750 hrs	1.0
+40°F to 10°F	OE/HDO 15/40 (+40C to -120C) MIL-L-2104	3.5 Quarts (0-1236)	750 hrs	1.0
+O°F to -65°F (-17°C to -540C) (For arctic operation, refer to TM 9-207)	OEA (0-183) MIL-L-46167	3.5 Quarts	750 hrs	1.0

Table 1. Lubricant Table for R.O. Pump.

 Table 2. Lubricant Table for Chemical Feed Pump.

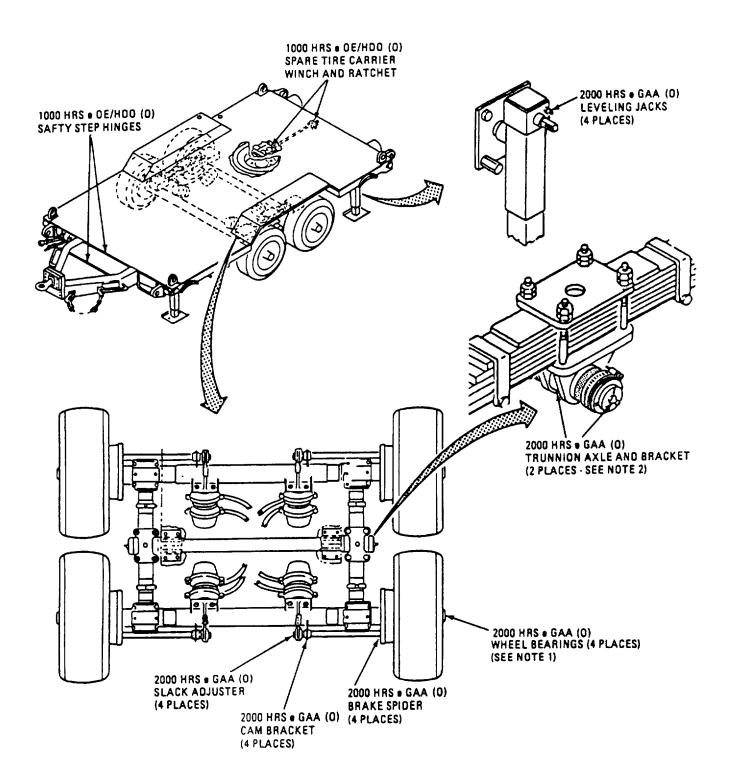
Temperature Range	Lubricant Mil Symbol (NATO Code) Specification	Capacity	Interval	Task Hour
Above +32°F (0°C)	GO-80/90 (0-226) MIL-L-2105	4.75 Quarts	4000 hrs	1.0
+40°F to 10°F (+40C to -120C)	GO-80190 (0-226) MIL-L-2105	3.5 Quarts	4000 hrs	1.0
+O°F to -65°F (-170C to -540C) (For arctic operation, refer to TM 9-207)	GO-75 (0-186) MIL-L-2105	3.5 Quarts	4000 hrs	1.0

Lube Point (AH Temperatures)	Lubricant* Mil Symbol (Rev) (NATO Code) Specification	Capacity	Interval	Task Hour
Wheel Bearings (See Note 1)	GAA* (G-403) MIL-G- 10924	As required	2000 hrs	1.0
Brake Spider (See Note 1)	GAA* (G-403) MIL-G- 10924	As required	2000 hrs	0.5
Slack Adjuster	GAA* (See Note 1) MIL-G- 10924	As required (G-403)	2000 hrs	0.3
Cam Bracket	GAA* (See Note 1) MIL-G- 10924	As required (G-403)	2000 hrs	0.3
Trunnion Axle	GAA* (See Note 2) MIL-G- 10924	As required (G-403)	2000 hrs	0.5
Trunnion Bracket (See Note 2)	GAA* (G-403) MIL-G- 10924	As required	2000 hrs	0.5
Leveling Jacks	GAA* (G-403) MIL-G- 10924	As required	2000 hrs	0.3
Safety Step Hinges	OE/HDO- 15/40 (0-1236) MIL-L-2104	As required	1000 hrs	0.3
Spare Tire Carrier and Ratchet	OE/HDO- 15/40 (0-1236) MIL-L-2104	As required	1000 hrs	0.3

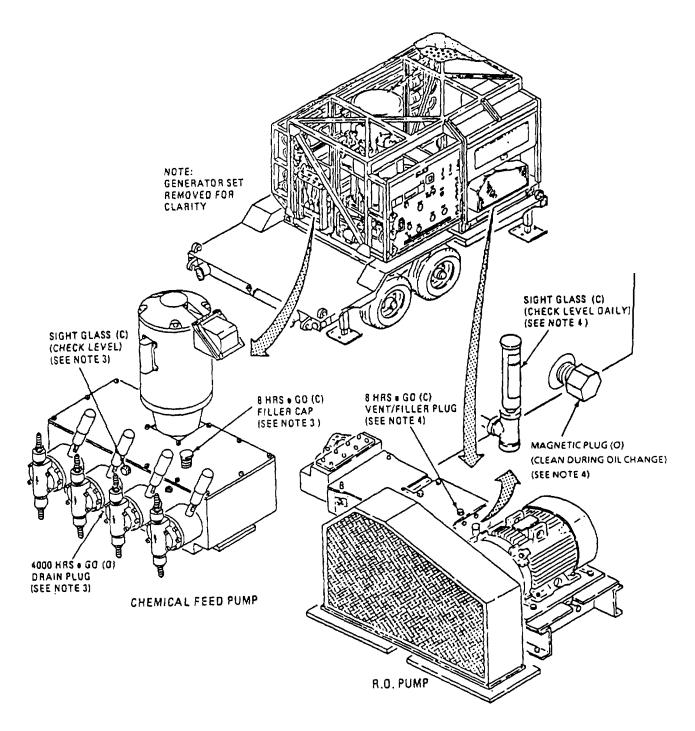
Table 3	(Model 009610900)	Trailer Lubricant Table.
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*Where GAA is specified, use only MIL-G-10924, Revision F or later.

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Table 4. Task Summary

TOTAL TASK-HR			
INTERVAL	TASK-HR		
750	1.0		
1000	0.6		
2000	3.4		
4000	1.0		

NOTES:

1.WHEEL BEARINGS (MODEL 0996108001)

CAUTION

To prevent premature failure of wheel bearings when operating in extremely dusty conditions, repack wheel bearings after 125 hours or 3.000 miles, whichever comes first.

- a. Remove tire and wheel assembly (TM 10-4610-239-10/LI 08580B-12).
- b. Disassemble, clean. lubricate and assemble wheel bearings CTM 10-4610-239-10/LI 08580B-12).

CAUTION

To Prevent grease from contaminating brake shoes, do not over lubricate brake spider.

- c. Lubricate brake spider, cam bracket and slack adjuster fittings while tire and wheel assembly are removed.
- d. Install tire and wheel assembly (TM 104610-239-10/LI 08580B-12).
- e. Repeat steps a through d. for remaining wheel bearings.

2. TRUNNION AXLE

a. Using leveling jacks, raise trailer wheels clear of ground (TM 10-4610-239-10//LI 08580B-12).

CAUTION

To prevent premature failure of suspension assembly. use oily grease conforming to MIL-G-10924, Revision F or later to lubricate trunnion axle and trunnion brackets. Use of other type grease can result in damage to trunnion axle bearing surfaces and will void the warranty.

b. Pump grease into fittings at both ends of trunnion axle until lubricant comes out from under grease seals.

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NOTES - cont:

- c. Pump grease into fittings on bottom of both trunnion brackets until lubricant comes out from under grease seals.
- d. Pivot suspension back and forth against stops (at least four times) to distribute lubricant.
- e. Using clean wiping rag, remove excess lubricant from grease seals, trunnion brackets and trunnion axle.
- f. Lower leveling jacks until trailer wheels are firmly on ground (TM 10-4610-239-10/LI 08580B- 12).

3. CHEMICAL FEED PUMP

a. Check oil level in sight glass daily. Oil level should be in center of sight glass. If required, add oil through filler cap. Do not overfill.

CAUTION

To prevent premature failure of wheel bearings when operating in extremely dusty conditions, repack wheel bearings after 125 hours or 3, 000 miles, whichever comes first.

- b. On new chemical feed pumps, drain and refill chemical feed pump oil after 700 hours of operation C(M 10-4610-240-24/TO 40W4-13-31/LI 08580C-12). Then, change oil every 4, 000 hours.
- 4. R.O. PUMP.

CAUTION

The R.O. pump must not be operated on preservative oil, or oil that has had preservative added to it. Damage to the pump can result. Using preservative oil will void warranty. If in doubt, drain and refill with fresh oil.

- a. Check oil level in sight glass daily. Oil level should be at red indicator mark on sight glass. If required, add oil through vent/filler plug on pump housing. Do not overfill.
- b. On new R.O. pumps, drain and refill oil after 100 hours of use (TM 10-4610-239-24/LI 08580B- 12). Then, change oil every 700 hours. Remove magnetic drain plug from pump and clean metal particles from plug after draining oil. Reinstall plug before filling pump with oil.

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LO 10-4610-239-12 (ARMY) LI 08580B-12 (MARINE CORPS)

By Order of the Secretaries of the Army and Navy (Including the Marine Corps):

By Order of the Secretary of the Army:

GORDON R. SULLIVAN General, United States Army Chief of Staff

Official mitte of dunto

MILTON H. HAMILTON Administrative Assistant to the Secretary of the Army

DISTRIBUTION: To be distributed in accordance with DA Form 12-25-E, block no. 4434, requirements for LO 10-4610-239-12.

> Copy of this lubrication order will remain with the equipment at all times: instructions contained herein are mandatory. *U.S. GOVERNMENT PRINTING OFFICE: 1995 - 386-730 (20002)

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