

**200 GPM FLAMMABLE LIQUID
LOW TEMPERATURE PUMP
(4320-01 -327-4578)
MODEL: AFARE200GPMP
EIC: ODU**

AND

**600 GPM FLAMMABLE LIQUID
LOW TEMPERATURE PUMP
(4320-01-327-4579)
MODEL: AFSSP600GPMP
EIC: ZDV**

References: TM 10-4320-342-10, Operator's Manual for 200/600 GPM Flammable Liquid Low Temperature Pump
TM 10-4320-342-24, Maintenance Manual for 200/600 GPM Flammable Liquid Low Temperature Pump
TM 10-4320-342-24P, Repair Parts and Special Tools List for 200/600 GPM Flammable Liquid Low Temperature Pump

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Aviation and Troop Command, ATN: AMSAT-I-MP. 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit you recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.arnnymil> A reply will be furnished to you.

NOTES

This LO is for operator/crew (C) and 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.

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NOTES-continued

Before you start your lubrications:

ALWAYSNEVER

- | | |
|---|---|
| <ul style="list-style-type: none"> a. Clean grease fittings before lubrication. b. Use the lubrication order as your guide. c. After lubrication, wipe excess grease from fittings to prevent build up of dirt, grit, and contaminants. d. Normally drain gear case when hot. Fill and check oil level. | <ul style="list-style-type: none"> a. Use wrong type/grade grease. b. Use too much lubricant. |
|---|---|

Oil filters shall be serviced/cleaned/changed as applicable, when:

- a. They are known to be contaminated, or clogged;
- b. Service is recommended by AOAP laboratory analysis, or
- c. At prescribed hard-time intervals.

Engine oil must be sampled at 250 hours/12 months as prescribed by DA Pam 738-750.

Refer to TM 10-4320-342-10 for Corrosion Prevention and Control.

The lubrication interval and symbol is listed below:

- S = Semiannually
- A = Annually

Table 1. Lubricant Table for Rigid/Swivel Wheels

Nomenclature / Temperature Rings	Lubricant Mil Symbol (NATO Code) Specification	Capacity	Interval	Man-HourGAA.5
Grease Fittings -65°F (-53.88°C) and above on rigid wheel, two on swivel)(one grease fitting (See Note 1)	GAA (G-403) MIL-G-10924	As Required	S	.5

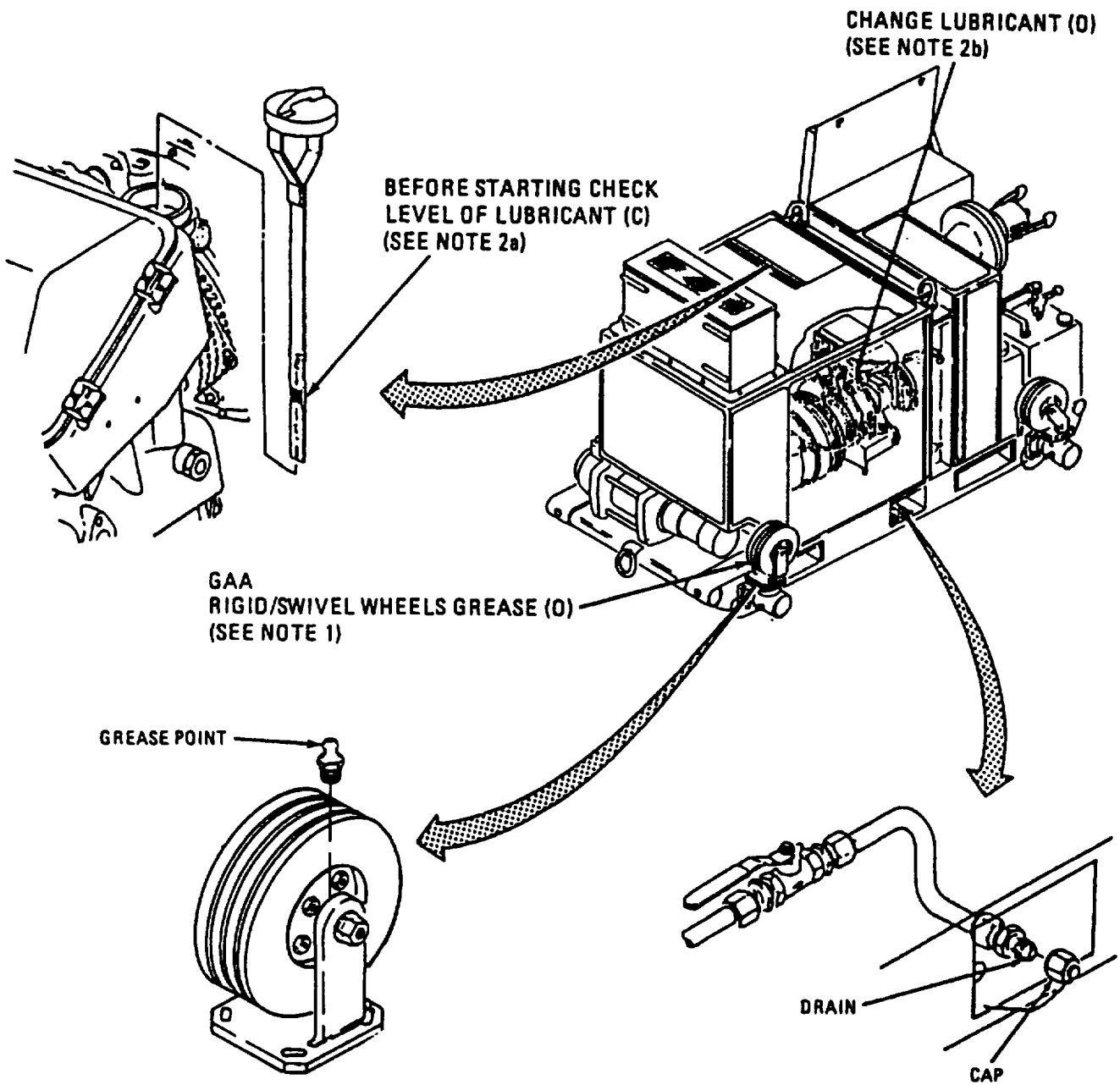
Table 2. Lubricant Table for Gas Turbine Power Unit

Nomenclature/ Temperature Range	Lubricant Mil Symbol (NATO Code) Specification	Capacity	Interval	Man-Hour
Engine Oil Filter and Oil -60°F (-31.66°C) and above.	MIL-L-236992	6 quarts	S or 2500 hours whichever occurs first	.5
-60°F (-31.66°C) and below	MIL-L-7808J	4 quarts	S or 2500 hours whichever occurs first	.5

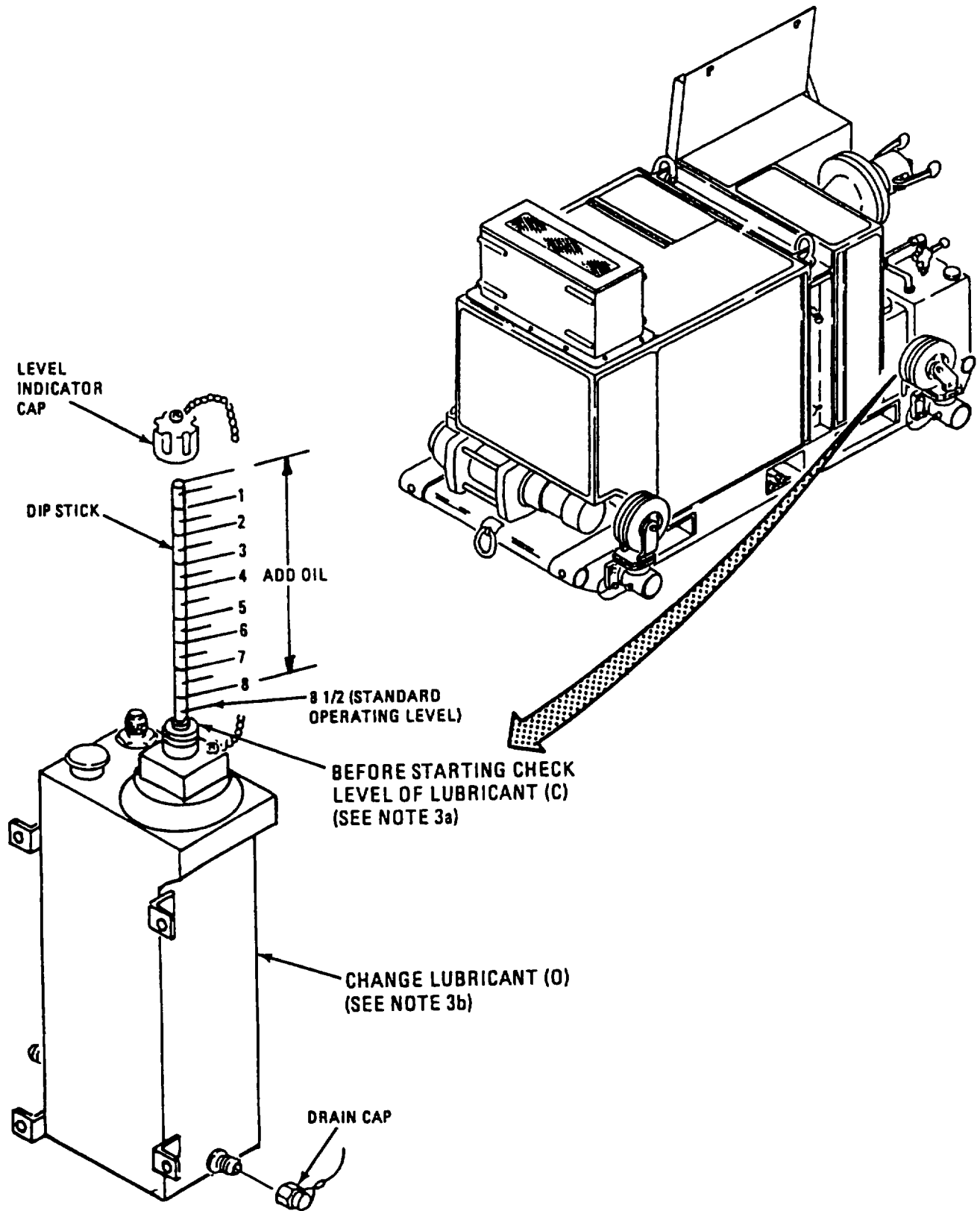
Table 3. Lubricant Table for Speed Reducer

Nomenclature/ Temperature Range	Lubricant Mil Symbol (NATO Code) Specification	Capacity	Interval	Man-Hour
Reservoir Oil -60°F (- 31.66°C) and above.	MIL-L-236992	6 quarts	S or 2500 hours whichever occurs first	.5
-60°F (-31.66°C) and below	MIL-L-7808J	4 quarts	S or 2500 hours whichever occurs first	.5

**GAS TURBINE POWER UNIT
LUBRICANT • INTERVAL**



**SPEED REDUCER
LUBRICANT • INTERVAL**



NOTES

1. Lubricate Rigid/Swivel Wheels per steps below:
Apply grease per Table 1 to grease fittings.
2. Lubricate Gas Turbine Power Unit per steps below:
 - a. Check level of lubricant (before starting) per steps below:
 - (1) Shut down 200/600 GPM Flammable Liquid Low Temperature Pump if operating.
 - (2) On oil fill and dipstick door turn turnlock fasteners and open door.
 - (3) Remove dipstick cap by rotating cap 90° and wipe clean.
 - (4) Install dipstick cap and lock cap by rotating cap 90°.
 - (5) Remove dipstick cap by rotating cap 90° and read indicator.
 - (6) If required, add lubricant to filler per Table 1 until lubricant level on dipstick is FULL.
 - (7) Install dipstick cap and lock cap by rotating cap 90°.
 - (8) Close oil fill and dipstick door and lock turnlock fasteners.
 - b. Drain and refill lubricant (semiannually) per steps below:
 - (1) Shut down 200/600 GPM Flammable Liquid Low Temperature Pump if operating.
 - (2) Remove drain cap.
 - (3) Place container (to hold lubricant) under drain.
 - (4) On oil drain shut-off door turn turnlock fasteners and open door.
 - (5) Remove dipstick cap by rotating cap 90°.
 - (6) Remove safety wire and open ball valve (parallel with piping).
 - (7) Close ball valve after lubricant has drained and secure with safety wire (.032).
 - (8) Install drain cap.
 - (9) Replace oil filter, refer to TM 10-4320-342-24.
 - (10) Add lubricant per Table 1.
 - (11) Wipe dipstick clean and install dipstick cap by rotating cap 90°.
 - (12) Remove dipstick cap and read indicator.
 - (13) If required, add lubricant to filler per Table 1 until lubricant level on dipstick is FULL.
 - (14) Install dipstick cap by rotating cap 90°.
 - (15) Close oil drain shut-off door and lock turnlock fasteners.
 - (16) Dispose of lubricant IAW local standard operating procedures.

3. Lubricate Speed Reducer per one of steps below:
 - a. Check level of lubricant (before starting) per steps below:
 - (1) Shut down 200/600 GPM Flammable Liquid Low Temperature Pump if operating.
 - (2) Remove level indicator cap, pull up on indicator until magnetic field holds indicator.

NOTE

If level indicator shows 1 to 8 add lubricant (2-1/2 marks on indicator equals one quart)

- (3) Add lubricant per Table 3, if level indicator is below 8-1/2.
 - (4) Push down on indicator and install level indicator cap.
 - b. Drain and refill lubricant (semiannually) per steps below:
 - (1) Shut down 200/600 GPM Flammable Liquid Low Temperature Pump if operating.
 - (2) Place container (to hold lubricant) under drain.
 - (3) Remove drain cap.
 - (4) Remove fill cap.
 - (5) Install drain cap after lubricant has drained.
 - (6) Replace oil filter, refer to TM 10-4320-342-24.
 - (7) Add lubricant per Table 3.
 - (8) Install fill cap.

Copy of this Lubrication Order will remain with the equipment at all times; instructions contained herein are mandatory.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Acting Administrative Assistant to the
Secretary of the Army
01640

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