

**LANDING CRAFT, MECHANIZED  
(LCM-8)  
(ROHR AND GUNDERSON MODELS)  
(1905-01-284-2647 AND 1905-01-284-2649)**

**References:** TM 55-1905-222-14, TM 5-2815-231-14, TM 55-2090-201-14&P, C9100-IL and FM 9-207

**REPORTING OF ERRORS**

You can improve this publication by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028, Recommended Changes to Publications and Forms, should be mailed directly to Commander, US Army Troop Support Command, ATTN: AMSTR-MMTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

**GENERAL NOTES**

Intervals (on condition or hard time) and the related task-hours times are based on normal operations. The task-hour time specified is the time you need to do all the services prescribed for a particular interval. On-condition (OC) oil sample intervals shall be applied unless changed by the Army Oil Analysis Program (AOAP) laboratory. Change the hard time interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longer-than-usual operating hours. The hard time interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken. Hard time intervals will be applied in the event AOAP laboratory support is not available.

**WARNING**

Dry cleaning solvent PD-680 used to clean parts is potentially dangerous to personnel and property. Avoid repeated and prolonged skin contact. Do not use near open flame or excessive heat. Flash point of solvent is 100°F - 138° F (38° C - 60° C).

Clean fittings before lubricating. Clean parts with dry CLEANING SOLVENT (SD), type II, PD-680 or equivalent. Dry before lubricating.

Dotted arrow points indicate lubrication on both sides of the equipment. Relubricate all areas exposed to water after vessel operations.

Before you start your lube service.

**ALWAYS**

- a. Clean fittings and parts before lubricating.
- b. Use the lubrication order as your guide.

**NEVER**

- a. Use wrong type/grade lubricant.
- b. Use too much lubricant.

Level of Maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following: (C) Operator/crew; (O) Organizational Maintenance and (F) Intermediate.

See Table 1 for required lubricants.

**DISTRIBUTION STATEMENT A** - Approved for public release; distribution is unlimited.

TABLE 1. Lubricant Table for Landing Craft Mechanized (LCM-8)

| Temperature Range                                                                                                                                                                                                                                                              | Lubricant<br>Mil. Symbol<br>(NATO Code)<br>Specification   | Capacity                                                                                                                 | Interval                            | Task-hour<br>**  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------|
| -65°F to + 120°F (-50°C to + 59°C)                                                                                                                                                                                                                                             | Fluid, hydraulic<br><br>FRH<br>(H-544)<br>MIL-H-46170      | Steering System<br>18 gals. (68 L)<br><br>Ramp Hoist System<br>90 gals. (341 L)<br><br>Starting System<br>7 gals. (27 L) | *<br><br>*                          |                  |
| +32°F to +120°F (0°C to +59°C) (0-226)                                                                                                                                                                                                                                         | Oil, lubricating<br>GO-80/90<br>(0-226)<br>MIL-L-2105      | Winch final drive<br>7 1/2 t. (7.1 L)<br>7 1/2 qt. (7.1 L)                                                               | *                                   |                  |
| -65°F to + 40°F (-50°C to + 5°C)                                                                                                                                                                                                                                               | Oil, lubricating<br>GO-75<br>(0-186)<br>MIL-L-2105         | Winch final drive<br>7 1/2 qt. (7.1 L)                                                                                   | *                                   |                  |
| -65°F to + 120°F (-50°C to + 59°C)                                                                                                                                                                                                                                             | Grease, Multipurpose<br>MPG<br>( )<br>MIL-G-24139A         | As Required                                                                                                              | *                                   |                  |
| -65°F to + 120°F (-50°C to + 59°C)                                                                                                                                                                                                                                             | Grease, Wire rope<br>GWR<br>( )<br>MIL-G-1 8458B           | As Required*                                                                                                             |                                     |                  |
| +32°F to + 120°F (0°C to + 59°C)                                                                                                                                                                                                                                               | Oil, lubricating<br>OE/HDO-30<br>(0-238)<br>MIL-L-2104     | Engine<br>10 gals (40 L)<br>Transmission<br>6 gals. (22.7 L)                                                             | *<br><br>D - Daily                  | 0.10             |
| -10°F to + 40°F ( + 23°C to + 5°C)                                                                                                                                                                                                                                             | Oil, lubricating<br><br>OE/HDO-10<br>(0-237)<br>MIL-L-2104 | Engine<br><br>10 gals (40 L)<br>Transmission<br>6 gals. (22.7 L)                                                         | M - Monthly<br><br>Q - Quarterly    | 1.00<br><br>0.50 |
| -65°F to 0°F (50°C to -1 8C)                                                                                                                                                                                                                                                   | Oil, lubricating<br><br>OEA<br>(0-183)<br>MIL-L-46167      | Engine<br><br>10 gals. (40 L)<br>Transmission<br>6 gals (22.7 L)                                                         | S - Semi-annually<br><br>W - Weekly | 0.80<br><br>0.20 |
| *** Arctic Operation<br>NOTES:<br>* Intervals given, for a specific lubrication procedure, are in hours of normal operation.<br>** The time specified is the time required to perform all services at the particular interval.<br>*** For arctic operation, refer to FM 9-207. |                                                            |                                                                                                                          |                                     |                  |

## LUBRICANT • INTERVAL

Ramp Hoist System  
Reservoir and Strainer  
(see note 8) (C)

Steering System  
Filter  
(See note 6) (C)

Steering System  
Reservoir and  
Strainer (C)  
(see note 7)

Hydraulic Starting  
System Reservoir  
(See note 9) (C)

FRH

FRH

FRH

## INTERVAL • LUBRICANT

Ramp Hoist System  
Filters  
(See note 6)  
(C)

50 MPG Steering Tie Bar  
(See note 11) (O)

50 MPG Steering Cylinder  
(See note 10) (O)

50 MPG Rudder Posts  
(3 fittings) (O)

2000 Hydraulic Starting  
System Filter  
(See note 9) (C)

2000 Hydraulic Starting  
System Filter  
(See note 9) (C)

## STERN AREA

Ramp Hoist Cable  
(See note 12) (C)

Ramp Hoist Bow  
Sheave  
(See note 3) (C)

Ramp Locking  
Mechanism  
(See note 13) (C)

GWR 250

MPG 50

MPG 50

FRH Ramp Hoist  
Hand Pump  
(See note 15) (C)

50 MPG Reversing  
Mechanism  
Lever Arm  
(See note 5) (C)

50 GO Winch Final Drive  
Oil Level Plug  
(Check and Fill)  
(See note 2) (C)

50 MPG Ramp Hinge  
Pins (Six) (C)  
(See note 14)

50 MPG Ramp Hoist Ramp  
Sheaves  
(See note 4) (C)

## BOW/RAMP AREA