LIGHTER, AMPHIBIOUS (LARC LX) SELF-PROPELLED, DIESEL 60 TON, 61 FT. DESIGN 2303, HULLS 5 THROUGH 60 W/ENGINES DETROIT DIESEL MODELS 6080 AND 6081

References:TM55-1930-203-10,-20 andC9100-IL **Approved for public release. Distribution is unlimited.**

Intervals (on-condition or hard time) and the related man-hour times are based on normal operation. The man-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.

Clean fittings before lubricating.

Clean parts with SOLVENT, dry-cleaning, (SD), type II or equivalent.

Dry before lubricating.

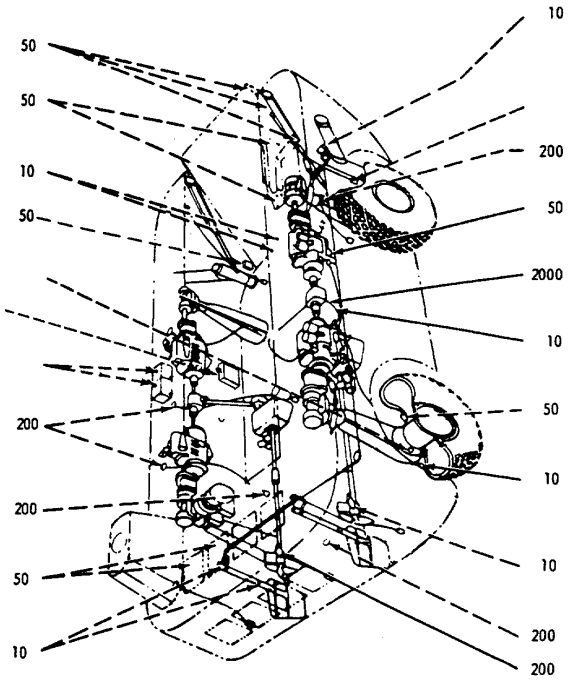
Lubricate points indicated by dotted arrow shafts on both sides of equipment.

Drain wet crankcases, gear boxes and hydraulic reservoirs while the lubricant is still warm from previous use.

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. ARMY Mail DA Form 2028 (Recommended Changes to Publications and Blank Forms), to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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

	LUBRICANT •· INTERVAL FOLD		
1	Romp Hoist Sheave	GAA	
2	Hatch Dog (See note 2.)	GAA	
3	Ramp Hinge (See note 3.)	WTR	
58	Romp Seal Protector	GAA	
	Wheel Spindle Grease Retainer (See note 8a)	WTR	
4	Hydraulic Oil Tank Fill Cap (See key)	OE	
5	Hydraulic Oil Tank Fill Cap (See key)	OE	
6	Bilge Drain Valve Handwheel (2 fittings)	GAA	
7	-Bilge Drain Valve Coupling	GAA	
8	Radiator Fans (See note 4.)	GAA	
9-	Rudder Stock Bush- ing (See note 5.)	WTR	



	INTERVAL ·• LUBRICANT FOLD	
OE	Lubricator Cargo * Well Pump Shaft (Adjust oil drip-lubricator to meter 3-5 drops per minute)	10
WTR	Wheel Spindle Grease Retainer (See note 80)	
GAA	Bilge Drain Valve Handwheel (2 fittings)	6
OE	Rudder Control e Cable (See note 6.)	11
	Hydraulic Oil Tank-, Drain Plug (Drain and refill)	12
	Hydraulic Oil Tank Sight Level Gage (Check level)	
WTR	Wheel Seal a (1 each column) (See note 8.)	13
WTR	Wheel Column Sup- = port Bearing (1 each column) (See note 8.)	4
WTR	Propeller Strut · Bushing (See note 9.)	15
GAA	Bilge Pump ·	16
GAA	Bilge Pump Valve m Handwheel (2 fittings.)	6

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KEY

<table>
<tr><th rowspan="2">LUBRICANTS</th><th rowspan="2">CAPACITY</th><th colspan="3">EXPECTED TEMPERATURES</th><th>INTERVALS</th></tr>
<tr><th>Above +32°F</th><th>+40°F to -10°F</th><th>0°F to -65°F</th><th rowspan="11">Intervals given are in hours of normal operation</th></tr>
<tr><td>OE-OIL, Engine, Heavy Duty</td><td></td><td colspan="3" rowspan="3">OE 10</td></tr>
<tr><td>Spare Lube Oil Tanks 2 ea.</td><td>120 qt</td></tr>
<tr><td>Lubricator Cargo Well Pump</td><td>4qt ea</td></tr>
<tr><td>Spare Lube Oil Tank 2 ea.</td><td>120 qt</td><td colspan="3">OE 30</td></tr>
<tr><td>Hydraulic Oil Tank</td><td>300 gal</td><td rowspan="3">OE 10
OE 30</td><td rowspan="3">OE 10</td><td rowspan="3">OES</td></tr>
<tr><td>Oil Can Points</td><td></td></tr>
<tr><td>OES-OIL, Engine, Sub-zero</td><td></td></tr>
<tr><td>WTR-GREASE, Aircraft General Purpose</td><td></td><td colspan="3" rowspan="3">ALL TEMPERATURES</td></tr>
<tr><td>Wheel Spindle Grease Retainer 4 ea.</td><td>3.4 lbs ea</td></tr>
<tr><td>GAA-GREASE, Automotive and Artillery</td><td></td></tr>
</table>

NOTES:

1. FOR OPERATION OF EQIPMENT IN PROTRACTED COLD TEMPERATURES BELOW - 10°F. Remove lubricants prescribed in the key for temperatures above - 10°F. Relubricate with lubricants specified in the key for temperatures below - 10°F.

2. HATCH DOG. There are two dogs for each machinery hatch cover and five machinery hatch covers for each side of hulls 19 through 60. (for hulls 5 through 18. See note 7)

3. RAMP HINGES. Grease daily with WTR. On hulls 6, 8, 16, 17 and 19 through 60, ramp must be raised to lube fitting installed in end of each ramp hinge pin. All others will be greased by lowering ramp to gain access to lube fittings installed in top of each ramp hinge.

4. RADIATOR FANS. FAN IS NOT LUBRICATED. However, grease is applied at center of motor shaft, only to keep water from entering motor bearing area.

5. RUDDER STOCK BUSHING. Every 10 hours lubricate with WTR.

6. RUDDER CONTROL CABLE. Every 50 hours cleans and coat cables with CE oil.

7. OIL CAN POINTS. Every 50 hours lubricate scuttle covers hinges and dog bolts; sliding hatch rails and dog latches on hulls 5 through 18; engine compartment hatch hinges and brace assembly; winch control and brake levers; winch knob clutch handle; search light shaft; drivers seat controls; brake and throttle controls governor shaft; ramp latch and ramp control valve; emergency stop on engine; throttle linkage on engine; cab steering lever lock, cab window and door, hinges and latch; bilge pump controls; tire inflation valve; fan controls; and the follow-up rod ball joints with OE.

8. WHEEL SEALS AND WHEEL COLUMN SUPPORT BEARING. Lubricate after each water operation with WTR. After operation in salt water, hose with fresh water if available amid relubricate.

8a. WHEEL SPINDLE GREASE RETAINER. After each water operation fill retainer with STR Grease. Retainer must be kept filled with grease at all times.

9. PROPELLER STRUT BUSHINGS. Every 10 hours and after each amphibious operation lubricated with WTR. When water based, lubricate bushing each watch.

10. LUBRICANTS. The following is a list of lubricants with the Military Symbols and applicable specification numbers.

OE MIL-L-2104 GAA MIL-G-10924
OES MIL-L-10295 WTR MIL-G-81322

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