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.

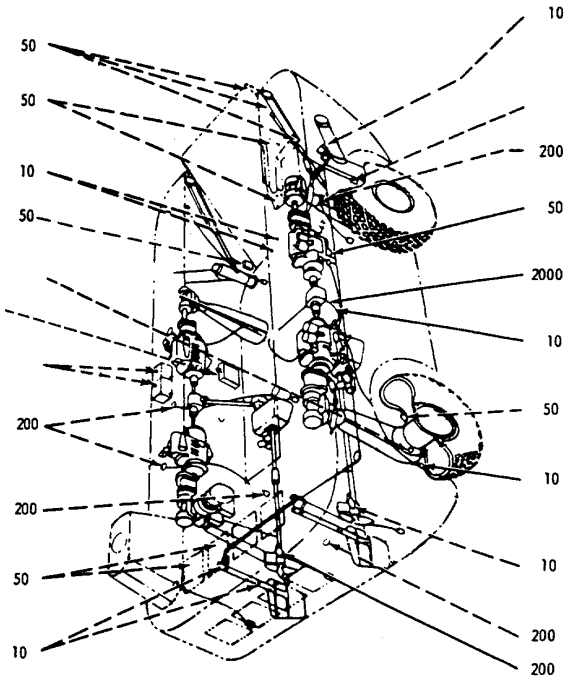
Lubricate points indicated by dotted arrow shafts on both sides of equipment.

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

TS 015525

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

TS015526

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: TM 55-1930-203-10,-20, and C9100-lL

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Clean fittings before lubricating.

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

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

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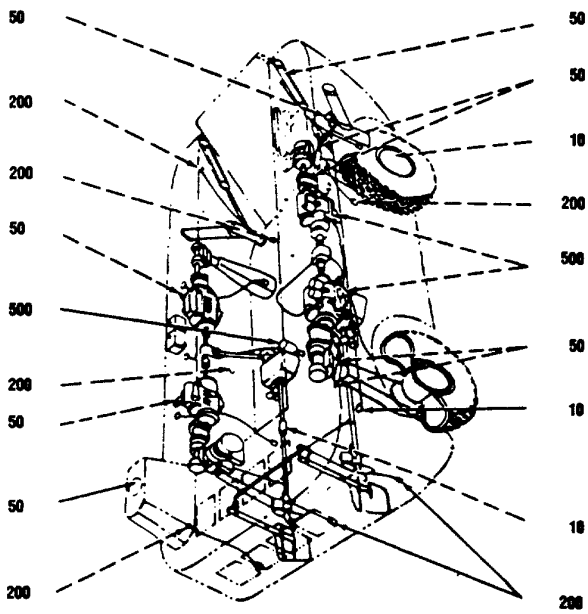
Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/crew (C); and Organizational Maintenance(O).

		LUBRICANT •· INTERVAL			INTERVAL ·• LUBRICANT		
17®	Cargo Well Pump Motor Bearing (5 through 18)	GAA	50	50	DE	Ramp Cable (See note 4.)	¬ **21**
6®	Bilge Drain Valve Handwheel (2 fittings)	GAA	200	50	GAA	Steering Cylinder Pins	
7®	Bilge Drain Valve Coupling	GAA	200	10	GO	Wheel Column (See note 5.)	¬ **22**
18®	Air Starting Motor Lubricator (See note 2.)	DE	50	200	GAA	Bilge Drain Valve Coupling	¬ **7**
19®	Marine Gear Oil Filter (See note 3.)		500	500		Transmission-Torque Converter Oil Filter (See note 6.)	¬ **23**
16®	Bilge Pump	GAA	200	50	GAA	Steering Cylinder Pins	
8®	Air Starting Motor Lubricator (See note 2.)	DE	50	10	GAA	Rudder Cable Sheave (1 fore, 1 aft stbd side,1 aft midship)	¬ **24**
20®	Scuttle Cover Dog Handle (Hulls 19 through 60)	GAA	50	10	WTR	Propeller Stem Tube Bushing (See note 7.)	¬ **24**
6®	Bilge Drain Valve Handwheel (2 fittings)	GAA	200	200	GAA	Bilge Drain Valve Coupling	¬ **7**



TS 015527

KEY

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+40°F to -10°F	0°F to 65°F	
OE-Oil, Engine, Heavy Duty		OE 10	OE 10		Intervals given are in hours of normal operation
Starting Motor Lubrications	1.4 qt ea				
Oil Can Points				OES	
OES-Oil, Engine, Sub-zero		GO 90	GO 80	GOS	
Wheel Column	35 gal ea				
WRT-GREASE, Aircraft General Purpose					
Wheel Spindle Grease Retainer 4 ea.		ALL TEMPERATURES			
GLA-GREASE, Automotive and Artillery					

NOTES:

1. FOR OPERATION OF EQUIPMENT 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. AIR STARTING MOTOR LUBRICATOR. Adjust lubricator to meter one drop per second into sight feed dome. This will allow three drops per minute into the air line.

3. MARINE GEAR OIL FILTER. Every 500 hours, remove filter, clean housing and element, reinstall filter. Operate until warm. check for leaks, metal contamination and for presence of water.

4. RAMP CONTROL CABLE. Every 50 hours clean and coat cables with OE oil.

5. WHEEL COLUMN AND WHEEL BEARINGS. Every 10 hours rotate wheel until plug is horizontal with center line of axle. Remove plug, check level. Every 500 hours, rotate wheel until plug is at bottom center, remove plug and drain, reinstall plug. Rotate wheel back to level point, fill. Check for presence of water in wheel and wheel column only after wheel has not moved during preceding 1/2 hour.

6. TRANSMISSION-TORQUE CONVERTER OIL FILTER. Every 500 hours, remove filter, clean housing and filter bag. Reassemble, operate until warm. Check for leaks, check level and bring to full mark.

7. PROPELLER STERN TUBE BUSHINGS. Every 10 hours and after each amphibious operation lubricate with WTR. Substitute GAA grease when the temperature is expected to drop below zero degrees F. When water based, lubricate bushing each watch.

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

OE MIL-L-2104	OES MIL-L-10295	GAA MIL-G-10924
GO MIL-L-2105	GOS MIL-L-10324	MTR MIL-G-81322

TS 015528

Card 4 of 10

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 and C9100-IL

Intervals (on-condition or hard time) 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 fitting 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 crankcase, gear boxes and hydraulic reservoirs while the lubricant is still warm from previous use.

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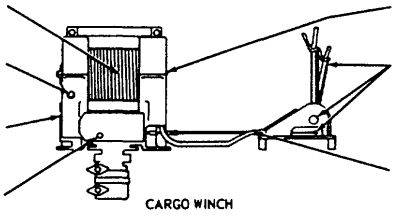
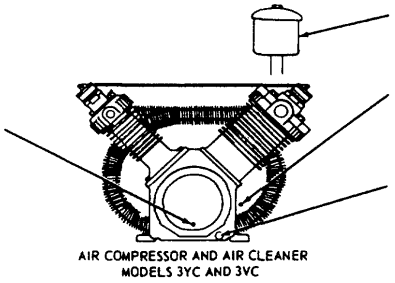
Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/crew (C); and Organizational Maintenance (O).

		LUBRICANT - INTERVAL			INTERVAL - LUBRICANT			
26®	Cargo Winch Cable (See note 3.)	OE	50		50	OE	Cargo Winch Clutch Handle	¬ **31**
27	Cargo Winch Gearcase Fill (See key.)	GO			50	OE	Cargo Winch Control and Brake Levers (Lubricate all fulcrum points to prevent rusting)	¬ **32**
28®	Cargo Winch Gearcase Level Plug (Check level.)		200					
29®	Cargo Winch Drain Plug (Drain and refill.) (Note: Drain plug located on aft side)		500		200	GAA	Cargo Winch Control Rod	¬ **33**
					50	OE	Air Compressor Air Filter (See note 4.)	¬ **34**
30®	Air Compressor Fill and Level Plug (Check level) (See key) (Model 3YC)	OE	10		10	OE	Air Compressor Fill and Level Plug (Check level.) (See key). (Model 3VC)	¬ **34**
					200		Air Compressor Drain Plug (Drain ad refill.)	¬ **35**





TS 015529

KEY

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+40°F to -10°F	0°F to -65°F	
OE-Oil, Engine, Heavy Duty		OE 30	OE 10	OE 10	Intervals given are in hours of normal operation
Air Compressor Crankcase 2 ea.	2-1/2 qt ea				
Compressor Air Cleaner 2 ea	AR				
Oil Can Points					
GO-LUBRICATING OIL, Gear		GO 90	GO 80	GOS	
Cargo Winch Gearcase	AR				
GOS-LUBRICATING OIL, Gear, Sub-zero					
GAA-GREASE, Automotive and Artillery		ALL TEMPERATURES			

NOTES:

1. FOR OPERATION OF EQUIPMENT 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. OIL CAN POINTS. Every 50 hours, lubricate winch controls, brake levers ad clutch handles with OE.

3. CARGO WINCH CABLE. After each operation clean and coat with OE. Every 50 hours if cable has not been used coat outer coils with OE. Every 1000 hours unwind entire cable. Clean and coat with OE.

4. COMPRESSOR AIR CLEANER. Every 50 hours, refill reservoir to level mark. Every 200 hours, disassemble entire until, clean, reoil and reassemble.

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

GO MIL-L-2106	GOS MIL-L-10324
OE MIL-L-2104	GAA MIL-G-10924

TS 015530

Card 6 of 10

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 and C9100-IL

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

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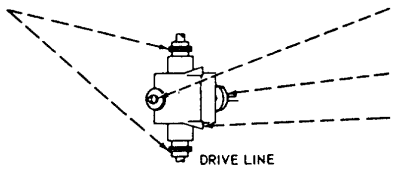
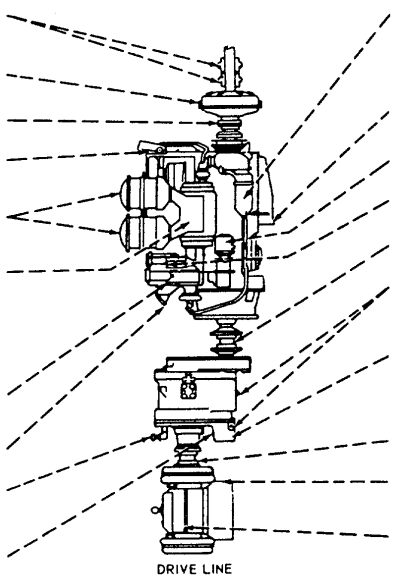
Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/crew (C); and Organizational Maintenance (O).

		LUBRICANT - INTERVAL		INTERVAL - LUBRICANT		
36®	Flexible Coupling (See note 3.)	GLA	50	10	OE	Gathering Box Fill and Level Plug (Check level) (See key.) ¬ **47**
				50	GLA	Angle Drive Shaft Flexible Coupling ¬ **48**
				500		Gathering Box Drain Plug (Drain and refill.) (See note 9.) ¬ **49**
	Steady Rest Bearing (See note 11.)	GLA	200	200		Oil Filters - Full Flow (Bypass filter on opposite side of engine.) (See note 6.) ¬ **50**
37®	Fluid Coupling (See note 4.)	OE	2000			
38®	Flexible Coupling (See note 3.)	GLA	50	200		Crankcase Drain Plug (Drain and refill.) ¬ **51**
39®	Governor and Throttle (See note 2.)	OE	50	50		Air Staring Motor (See note 10.) ¬ **52**
40®	Engine Air Cleaners (See note 7.)		50		OE	Crankcase Fill Cap (See key.) ¬ **53**
			10	50	GLA	Flexible Coupling (See note 5.) ¬ **54**
41®	Engine Crankcase Oil Level Gage (Check level) ((See key.) CAUTION: When OES Oil is used the level will be checked more often.			500		Transmission Drain Plug (Drain and refill.) (See note 5.) ¬ **55**
			200	500		Transmission Oil Strainer (Strainer located on opposite side of transmission.) ¬ **56**
42®	Mechanical Tachometer Drive (See note 8.)	GAA	200	50	GLA	Flexible Coupling (See note 3.) ¬ **54**
43®	Actuator Positioned			500		Miter Box Drain Plug (Drain and refill.) ¬ **57**
44®	Transmission-Torque Converter Fill Cap (See key.)	OE		10	GO	Miter Box Fill and Level Cap (Check level.) (See key.) ¬ **46**
45®	Transmission Oil Level Gage (Check level.) (See note 5.)		10			





TS 015531

KEY

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+40°F to -10°F	0°F to -65°F	
OE-Oil, Engine, Heavy Duty		OE 30	OE 10	OE 10	Intervals given are in hours of normal operation
Crankcase 4 ea	20 qt ea				
Air Cleaner	AR				
Oil Can Points					
Gathering Box 2 ea	12 qt ea	OE 30	OE 30	OE 10	
Transmission-Torque converter 4 ea	52 qt ea	OE 10	OE 10	OES	
Fluid Coupling 4 ea	20 qt ea				
OES-Oil, Engine, Sub-zero		GO 90	GO 80	GOS	
GO-LUBRICATING OIL, Gear					
Miter Box 4 ea	15 qt ea				
GOS-LUBRICATING OIL, Gear, Sub-zero					
9170 LUBRICATING OIL, Engine		ALL TEMPERATURES			
GLA-GREASE, General Purpose					
GAA-GREASE, Automotive and Artillery					

NOTES:

1. FOR OPERATION OF EQUIPMENT 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. OIL CAN POINTS. Every 50 hours, lubricate governor shaft emergency stop on engine, throttle linkage and all exposed adjusting threads with OE.

3. FLEXIBLE COUPLING. Every 50 hours lubricate with GLA grease. Prior to installation, disassemble, clean and hand pack coupling.

4. FLUID COUPLING. Every 2000 hours, rotate coupling until fill, level and drain plug is located at bottom and drain. Rotate coupling until fill plug is at 50 degrees from vertical position to allow necessary air space. Fill with OE.

5. TRANSMISSION-TORQUE CONVERTER AND STRAINER. Every 10 hours, check oil level with engine running and transmission at operating temperature. Every 500 hours remove drain plug and strainer from transmission. To drain torque converter remove inline hose. Start engine and run at 1000 rpm. CAUTION: Do not run engine longer than 30 seconds. Clean oil strainer. Reinstall drain plug, strainer and converter inline hose. Fill transmission with OE. Run engine for 5 minutes, check for leaks. Check oil level and bring to full mark.

6. OIL FILTERS. Every 200 hours remove filter elements, clean housings, install new elements, fill crankcase, operate for 5 minutes, check for leaks, check crankcase oil level, and bring to full mark.

7. AIR CLEANERS. Every 50 hours, refill reservoir to level mark. Every 200 hours disassemble entire units, clean, reoil and reassemble.

8. TACHOMETER CABLE. Every 1000 hours, completely disassemble, clean, and lubricate lightly with GAA grease on hulls 5 through 29.

9. GATHERING BOX. Every 10 hours, check oil level. Every 500 hours drain gearcase, oil cooler and lines. Replace drain plugs and lines. Refill gathering box gearcase with OE. Run engine for 5 minutes, check for leaks, check oil level and bring to full mark.

10. AIR STARTING MOTOR MODEL A31RH. Grease fitting in housing cover receives two shots GAA grease from hand gun. Grease fitting in gear case receives 20-30 shots GAA grease from hand gun.

AIR STARTING MOTOR MODEL B21 RH. Remove any one of the three oil plugs in the housing cover, fill the oil chamber with 9170 oil. Grease fitting in the gearcase receives two shots GAA grease from hand gun.

11. STEADY REST BEARING. Every 1000 hours remove bearing cap and remove as much of the old grease as possible. Hand pack the bearing, and lower half of the bearing housing with GLA grease. Replace bearing cap.

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

OE MIL-L-2104	OES MIL-L-10295
GO MIL-L-2105	GOS MIL-L-10324
GAA MIL-G-10924	9170 MIL-L-9000

GLA MIL-G-23549

TS 015532

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

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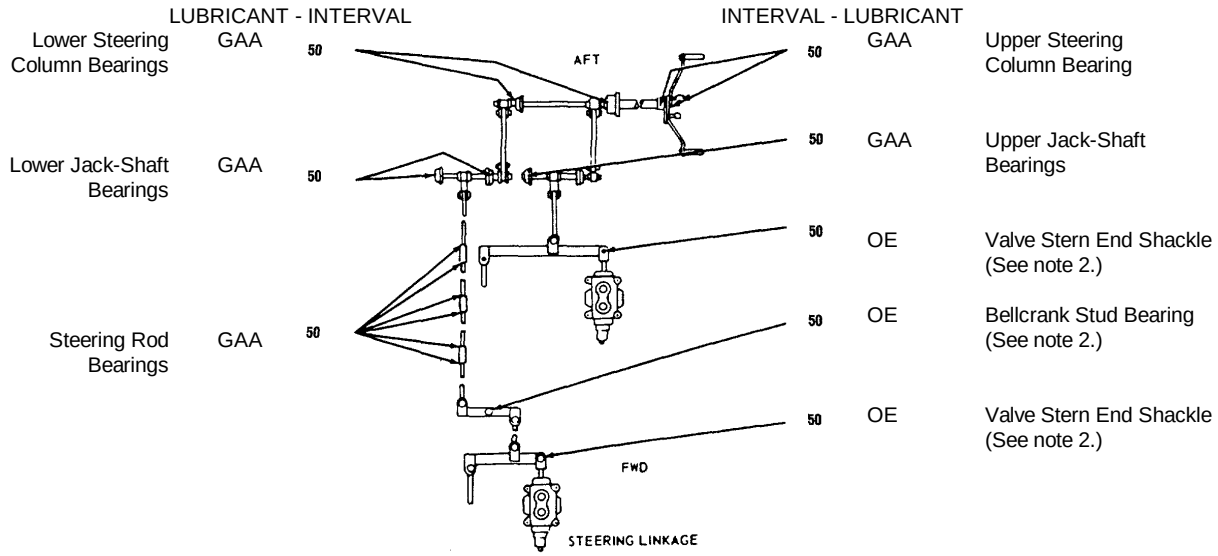
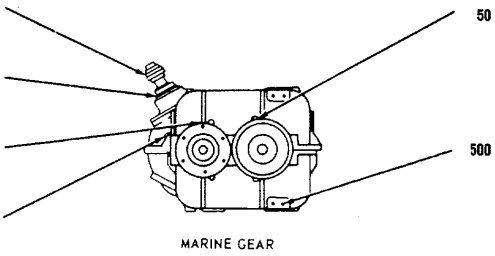


TS 015533

LUBRICANT - INTERVAL

Flexible Coupling (See note 3.)	GLA	50
Marine Gear Input Shaft Bearing	GAA	50
Power Take-off Shaft Bearing	GAA	50
Marine Gear Fill and Level Plug (Check level.) (See key.) (See note 4.)	2190 TEP	10



KEY

INTERVAL - LUBRICANT

GAA	50 — Propeller Drive Shaft Bearing Grease Fitting on Bulkhead
GAA	500 — Marine Gear Drain Plug (Drain and refill.)

KEY

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+40°F to -10°F	0°F to -65°F	
OE-Oil, Engine, Heavy Duty		OE 30	OE 10	OE 10	Intervals given are in hours of normal operation
Oil Can Points					
OES-Oil, Engine, Sub-zero					
GLA-GREASE, General Purpose		ALL TEMPERATURES			
2190 TEP-LUBRICATING OIL, General Purpose					
Marine Gear Case 2 ea	60 qt ea				
GAA-GREASE, Automotive and Artillery					

NOTES:

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

2. OIL CAN POINTS. Every 50 hours, lubricate steering levers, locks in cab, follow-up ball joints; bellcrank stud bearings and valve stem and shackles.

3. FLEXIBLE COUPLING. Disassemble, clean and hand pack couplings, prior to installation.

4. MARINE GEAR. Every 10 hours check oil level. Every 500 hours drain gear case, remove strainer element from inlet filter and clean, refill gear case with 2190-TEP. Operate engine for 5 minutes, check for leaks, check oil level and bring to full mark.

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

GLA MIL-G-23549 OES MIL-L-10295
GAA MIL-G-10924 2190-TEP MIL-L-17331
OE MIL-L-2104

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:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

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