

**LUBRICATION ORDER**

**L05-4320-237-12**

10 JUNE 1977

(Supersedes LO5-4320-237-15, 5 MAY 1967)

**PUMPING ASSEMBLY, FLAMMABLE LIQUID,  
BULK TRANSFER, CENTRIFUGAL,  
50 GPM, 100 FOOT HEAD: GASOLINE ENGINE DRIVEN, 2 IN.  
FRAME MOUNTED, (BARNES MODEL-QM-2-28002)  
WITH WISCONSIN ENGINE MODEL-MBKND,  
SPECIFICATION 279315**

Reference: C9100-IL

Intervals and related task-hour times are based on normal hours of operation. The task-hour time specified is the time you need to do all the services prescribed for a particular interval. Change the interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longer-than-usual operating hours. You may extend the interval during periods of low activity, but you must take adequate preservation precautions.

\*The time specified is the time required to perform all services at the particular interval.

Clean fittings before lubricating. Relubricate all areas exposed to water after amphibious operation. Lubricate points indicated by dotted arrow shaft on both sides of

equipment. Clean parts with SOLVENT, dry cleaning, or with OIL, fuel, diesel. Dry before lubricated. Drain crankcase when HOT. Fill and check level. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following: (C) operator/crew, or (O) organizational maintenance.

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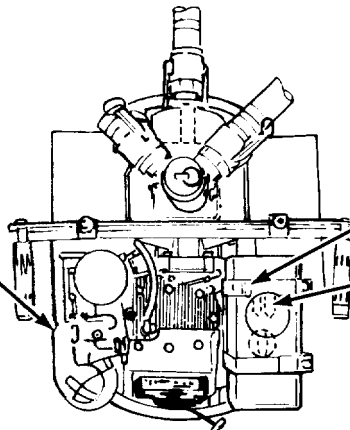
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**LUBRICANT • INTERVAL**

**INTERVAL • LUBRICANT**

Air Cleaner OE D  
(Refill oil reservoir to level mark; every 25 hours, 250 miles, or weekly, disassemble entire unit; clean, reoil and reassemble.)  
(See Note 2.)



W Crankcase Drain Plug (Drain and refill)  
D OE Crankcase Fill Plug (Check Level) (See Key)

**\*TOTAL TASK HOURS**

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INTERVAL	TASK-HOURS
D	0.5

INTERVAL	TASK-HOURS
W	1.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F Above 0°C	+40°F to -10°F + 5°C to -23°C	0°F to -65°F -18°C to -50°C	
OE/HDO Oil, Engine, Heavy Duty		OE/HDO 30  FOR ARCTIC OPERATION Refer to TM9-207	OEA/APG-PD-1	OEA/APG-PG-1	D- 10 Hours, 100 Miles, or Daily  W- 50 Hours, 500 Miles, or Weekly
Crankcase	1 qt .946 liters				
Air Cleaner	5/32 qt .147 liters				
OEA/APG-PD-1 Oil, Engine Sub-zero					

NOTES :

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -10°F -23°C. Remove lubricants prescribed in the key for temperatures above -10°F -23°C. Clean parts with SOLVENT, dry-cleaning (PD-680). Relubricate with lubricants specified in the key for temperatures below -10°F -23°C.

2. AIR CLEANER, When operating under dusty conditions. Clean Air Cleaner every 10 operating hours, 100 miles, or daily.

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

OE-MIL-L-2104

OEA/APG-PD-1

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:

BERNARD W. ROGERS  
General, United States Army  
Chief of Staff

OFFICIAL:

PAUL T. SMITH  
Major General, United States Army  
The Adjutant General

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