LO5-4320-215-12

23 May 1978 (Supercedes LO 5-4320-215012, 17 February 1961)

PUMP, CENTRIFUGAL: FRESH WATER; GASOLINE DRIVEN; 2 WHEEL MOUNTED; 4 IN.; 500 GPM; 30 FT HEAD (CARVER MODEL K400S) W/WISCONSIN ENGINE MODEL MVF4D

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 service prescribed for a particular interval. Change the interval if your lubricants are contamin-ated 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 01 L, fuel, dies 81. Dry before lubricating. Drain crankcase when HOT. Fill and check level. The lowest level of maintenance authorized to lubricate e point is indicated by one of the following: (C) Operator/crew or (O) Organizational Maintenance.

You can help improve this publication. If you find any mistake or if you know of a way to improve the procedures phase let us know. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed directly to: Commander, U.S. Army Troop Support & Aviation Materiel Readiness Command, ATTN: DRSTS-MTPS, 4300 Goodfellow Blvd. St. Louis, MO 63120. A reply will be furnished to you."

*TOTAL TASK-HR		*TOTAL TASK-HR		
INTERVAL 10 50 100	TASK-HR 0.5 0.4 0.5	INTERVAL 250 1000	TASK-HR 0.1 0.5	

LUBRICANT ● INTERVAL

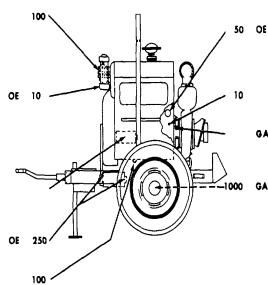
Oil Filter (Disassemble, clean housing, renew element and reassemble) (O) (See note 2)

Air Cleaner (Refill oil reservoir to full mark; every 50 hours disassemble entire unit, (O) clean, re-oil and reassemble. (See key)

Starter (Sealed bearings) DO NOT LUBRICATE

Generator (O) (Sparingly)

Crankcase Oil Drain Plug
(O) (Drain and refill)



INTERVAL ● LUBRICANT

Crankcase Oil Fill and Breather Cap (Clean and re-oil) (See key) (O)

Crankcase Oil Level Gage (Check level) (C)

QAA Pump Seal Grease Cup (O) (Refill when wing nut reaches cop) (See note 3)

> Wheel Bearings (Remove wheel, clean, inspect and lubricate bearings and reassemble) (O)

		REFILL	EXPECTED TEMPERATURES			
LUB	LUBRICANTS			+40°F to -10°F + 5°C to -23°C	0 ⁰ F to -65 ⁰ F -18 ⁰ C to -50 ⁰ C	INTERVALS
OE (MIL-L-2104)	OIL, Engine Crankcase Air Cleaner Oil Can Points	5 at (4,75L) 3/8 at (0.38L)	OE 30 or 9250	OEA/APG-PD-1	OEA/APG-PD-1	Intervals given are in hours of
OEA/APG-PD-1	OIL, Engine, Subzero				L	normal operation.
GAA (MIL-G-10924)	GREASE, Automotive and Artillery			All Temperatures		Operation.

TESTS:

- 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, dryclasping, lubricate with lubricants specified in the key for temperatures as below -10°F (-23°C).
- 2. OIL FILTER. After installing new filter element, fill crankcase, operate engine 5 minutes, check housing for leaks, check crankcase oil level and bring to full mark.
- 3. PUMP SEAL GREASE CUP. To fill cup turn wing nut clockwise to cap, remove cap, fill cup, replace cap and turn wing nut counterclockwise to top of shaft.
- OIL CAN POINTS. Every 50 hours clean and lightly coat throttle linkage, leveling jacks and door latches with OE.

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:

J.C. PENNINGTON

Brigadier General, United States Army
The Adjutant General

DISTRIBUTION: To be distributed in accordance with DA Form 12-25A, Operator Maintenance requirements for Pumps, Fresh Water.

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THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

YEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 lb.

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet

1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	
Yards	Meters	
Miles	Kilometers	
Square Inches	Square Centimeters	
Square Feet	Square Meters	
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	
Cubic Feet	Cubic Meters	
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	
arts	Liters	
allons	Liters	
Ounces	Grams	
Pounds	Kilograms	
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	
Miles per Hour	Kilometers per Hour	

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	
Cubic Meters	Cubic Feet	
Cubic Meters	Cubic Yards	
Milliliters	Fluid Ounces	
Liters	Pints	2.113
Liters	Quarts	1.057
`ers	Gallons	0.264
.ms	Ounces	0.035
.ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
meters per Hour	Miles per Hour	0.621



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