LUBRICATION ORDER 5 July 1984

(Supersedes LO 5-3805-240-12-1, 22 DECEMBER 1969, -2, 25 JULY 1969, AND -3, 22 DECEMBER 1969)

# DITCHING MACHINE, DIESEL ENGINE DRIVEN; WHEEL MTD, LADDER-TYPE 6 FT DEPTH OF CUT, 24-INCH WIDTH OF CUT (PARSON MODEL 624 VL) (NSN 3805-00-050-4638)

# Reference: TM 5-3805-240-12 and FEDERAL SUPPLY CATALOG 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.

#### WARNING

Dry cleaning fluid is flammable. Do not use near a flame or excessive heat. Use only with adequate ventilation. Avoid prolonged breathing of vapors and minimize skin contact. Clean parts or fittings with dry cleaning solvent (SD), Type II or equivalent. Dry before lubricating. Dotted arrow shafts indicate lubrication on both sides of equipment. A dotted circle indicates a drain below. Relubricate all items found contaminated after fording or washing.

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).

**Reporting errors and recommending improvements.** You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MB, Warren, MI 48090. A reply will be furnished to you.

<b>*TOTAL MAN-HOURS</b>		<b>*TOTAL MAN-HOURS</b>		
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS	
5	0.2	250	2.0	
10	1.2	1000	0.8	
50	3.2			

\*The time specified is the time required to perform all services at the particular interval (on-condition or hard times).





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		- KEY	′ -			
		EXPECTED TEMPERATURES				
LUBRICANTS	CAPACITY	Above +15°F (Above -9°C)	+ 40°F to -15°F (+ 4° to -26°C)	+40°F to -65°F (+4° to -54°C)		INTERVALS
- Transmission and Torque Converter	14 qts. (13.24 L)					C/MR - Condition Monitor
- Power Cluster						OC - On Condition (AOAP)
- Hydraulic System	176 qts. (166.5 L)	<b>OE/HDO</b> 10		1	207	
- Power Transfer Case	10 qts. (9.46 L)	<b>OE/HDO</b> 50	OE/HDO 30		r to FM 9-	
GO - Lubricating Oil, Gear, Multipurpose		<b>GO</b> 80W/90	<b>GO</b> 80W/90	<b>GO</b> 75W	ation refe	Intervals
- Bucket Drive Differential	8 qts. (7.56 L)				ic oper	given are
- Front Axle Planetary	2 qts. ea (1.9 L)				or Arct	of normal
- Rear Axle Planetary	2 qts. ea (1.9 L)					operation
- Front Differential	10 qts. (9.46 L)					
- Rear Differential	8 qts. (7.6 L)					
<b>CW</b> - Lubricating Oil, Chain, Wire Rope, Exposed Gear		A				
<b>GAA</b> -Grease, Automotive and Artillery		A				

\*See Note 13 for lubricant specification number.

# NOTES:

1. ARMY OIL ANALYSIS PROGRAM (AOAP). For Active Army units, obtain samples from engine and automatic transmission every 50 hours of operation or

60 days (whichever comes first). Reserve and National Guard activities will use 50 hours or 120 days as the prescribed sample intervals. Reserve and

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NOTES CONTINUED:

National Guard equipment in frequent use during active training period will adhere to the schedule for Active Army units. As a minimum, one sample from each unit's two week active training period will be submitted for each item of equipment. Send these samples to the nearest AOAP laboratory. Refer to TB 43-0210 for sampling instructions. When or if AOAP laboratory support is unavailable, hard time intervals will apply.

# NOTE

- Do not hold oil samples. Submit oil samples as soon as they have been taken.
- Seasonal oil changes will be made due to expected temperatures. (See Key.)

2. FOR OPERATION OF: EQUIPMENT in PROTRACTED COLD TEMPERATURES BELOW - 15°F (-26°C). Remove lubricants prescribed in Key for temperatures above -15°F (-26°C). Relubricate with lubricants specified in Key for temperatures below -15°F (-26°C). If OEA lubricant is required to meet the temperature ranges prescribed in the Key, OEA lubricant is to be used in place of OE/HDO-10 lubricant for all temperature ranges where OE/HDO-10 is specified in the Key.

3. OIL CAN POINTS. Each 50 hours lubricate control linkage, latches and hinges, pins and clevises, and all exposed adjusting threads with OE/HDO.

4. CRANKCASE OIL LEVEL HOT OR COLD CHECK. Cold engine, oil level should be at high mark on dipstick. Hot engine, oil level must be between high and low marks on dipstick (allow to set 5 minutes before checking).

5. CRANKCASE. Oil is to be changed each time an engine oil change is directed by AOAP laboratory. When AOAP laboratory support is not available, change oil each 100 hours. Drain when lubricant is warm.

6. ENGINE OIL FILTER. Filter element is to be replaced each time an engine oil change is directed by AOAP laboratory. After installing new filter element, fill crankcase, operate engine 5 minutes, check housing for leaks, check crankcase oil level and bring to full mark. When AOAP laboratory support is not available, install new filter element each 100 hours.

7. TRANSMISSION AND TORQUE CONVERTER/ TRANSMISSION AND TORQUE CONVERTER OIL FILTER. Check level each 50 hours with engine running at idle speed, oil at operating temperature and transmission in neutral. Maintain oil level to "FULL" mark. Oil and oil filters are to be changed each time a transmission oil change is directed by AOAP laboratory. Remove filter element, clean filter housing and install new filter element and gasket. After replacement, fill transmission to low mark. With engine running, oil at operating temperature and transmission in neutral (to fill lines and converter) add oil to bring level to "FULL" mark. Operate for 5 minutes and check for leaks. When AOAP laboratory support is not available, change transmission oil and transmission oil filter element each 100 hours.

8. BUCKET DRIVE DFFERENTIAL. Each 50 hours check level. Change gear lubricant only when required by maintenance repair action, contamination by water, or other foreign material. After refill, operate for 5 minutes, check for leaks and bring oil level to fill and level plug opening.

9. FRONT DIFFERENTIAL/REAR DIFFERENTIAL. Each 50 hours check level. Change gear lubricant only when required by maintenance repair action, contamination by water, or other foreign material. After refill, operate for five minutes, check for leaks and bring oil level to fill and level plug opening.

10. HYDRAULIC OIL FILTER. Each 250 hours, remove element, clean filter shell

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# NOTES CONTINUED:

and install new element. After replacement, operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark.

11. HYDRAULIC SYSTEM DRAIN. Each 1000 hours, with boom resting on ground, drain tank and filters. Replace filter elements, refill tank partially full with clean oil, and operate engine and controls to fill lines and components. Fill tank and operate engine and controls for 5 minutes. Check for leaks, check level and bring to "FULL" mark.

12. FRONT AXLE PLANETARY/REAR AXLE PLANETARY. Each 50 hours rotate wheel until plug is horizontal with center line of axle. Remove plug, check level and reinstall. Change gear lubricant only when required by maintenance repair action, contamination by water, or other foreign material. To drain rotate wheel until plug is at bottom center, remove plug and drain. Rotate wheel back to level point, fill and reinstall plug. After refill, operate for 5 minutes, check for leaks and bring oil level to level of fill and drain plug opening.

13. LUBRICANTS. The following is a list of lubricants with military symbols and applicable specification numbers.

OE/HDO GO GAA CW OEA (SD), Type II MIL-L-2104 MIL-L-2105 MIL-G-10924 VV-L-751 MIL-L-46167 P-D-680 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:

JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

OFFICIAL:

ROBERT M. JOYCE Major General, United States Army The Adjutant General

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To be distributed in accordance with DA Form 12-25B, Operator and Organizational maintenance requirements for Ditching Machine

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