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TRUCK, LIFT, FORK; GASOLINE ENGINE DRIVEN, SOLID RUBBER TIRED, 127-INCH LIFT; 2, 000 LB CAPACITY (CLARK EQUIPMEN-T MODEL 2329397, ARMY MODEL MHE-229) (NSN 3930-00-315-9699)

Reference :TM 10-3930-632-12 and FEDERAL SUPPLY CATALOG C9100-IL.

Hard time intervals and the related man- hour times are based on normal opera- tion. The man-hour time specified is the time you need to do all the services prescribed for a particular interval.

Change the hard time interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longerthan-usual operating hours. The hard time interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken.

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:

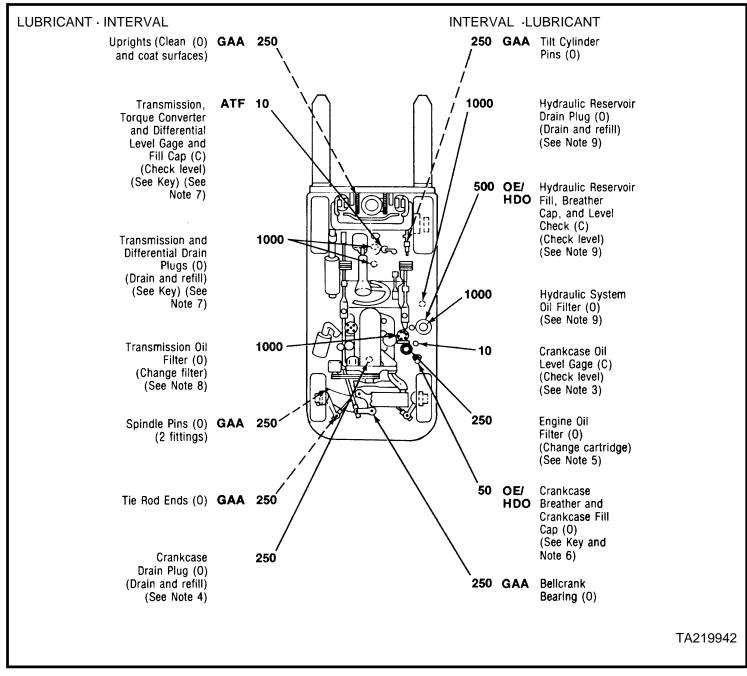
DRSTA-MB, Warren, MI 48090. A reply will be furnished to you

*The time specified is the time requires to perform all services at the particular interval. *TOTAL MAN-HOURS*TOTAL MAN-HOURS INTERVALMAN-HOURSINTERVALMAN-HOURS 100.15002.1 500.11000 3.5 2501.7 TA 219940 LO 10-3930-632-12'CARD 1 OF 5

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LO 10-3930-632-12

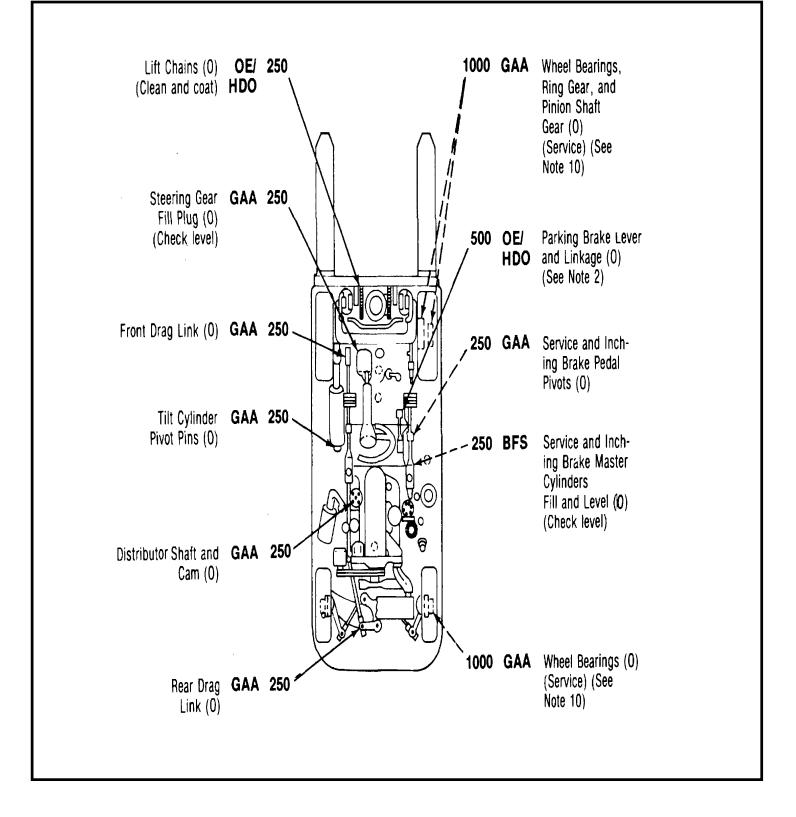
CARD 1 OF 5



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CARD 3 OF 5

INTERVAL* LUBRICANT



TA 21994

			EXPECTED TEMPERATURES				
LU	BRICANTS	CAPACITY			+ 40°to -65°F (+ 4°to -54°C)		INTERVALS
HDO	Lubricating Oil, Internal Combustion Engine, Tac- tical Service		OE/HDO 30	OE/HDO 10			
-	Lubricating Oil, Internal Combustion, Arctic Engine Crankcase Oil Can Points (See Note 2)	4 qts. (3.8 L)			OEA (See Note 1)	refer to FM 9-207	Intervals given are
-	Hydraulic Tank	18 qts. (17 L)				ation	in hours
ATF -	Automatic Transmission Fluid Type A Suffix A		ALL	TEMPERATU	RES	For Arctic operation	of normal operation.
-	Transmission and Differential	16 qts. (15.1 L)				For	
	Brake Fluid, Silicone, Automotive,		ALL TEMPERATURES				
-	Master Cylinder	1 pt. (0.5 L)					
GAA -	Grease, Automotive and Artillery		ALL	TEMPERATU	RES		

*SEE NOTE 11 for lubricant specification number

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -150F (-260C). Remove lubricants prescribed in Key for temperatures above -150F (-260C). Relubricate with lubricants specified in Key for temperatures below -150F (-260C). 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.

2. OIL CAN POINTS. Each 500 hours clean and lightly coat hood hinges, latch, carburetor and accelerator linkage, and parking brake lever and linkage with OE/HDO 10.

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NOTES - CONTINUED:

- ENGINE 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).
- 4. ENGINE. Oil is to be changed each 250 hours. Drain when lubricant is warm.

5. ENGINE OIL FILTER. Each 250 hours, remove filter cartridge, clean housing and install new filter cartridge. After installing new filter cartridge, fill crankcase, operate engine for 5 minutes, check hous- ing for leaks, check crankcase oil level and bring to "FULL" mark.

- 6. CRANKCASE BREATHER AND CRANKCASE FILL CAP. Each 50 hours remove cap, and clean breather.
- 7. TRANSMISSION CONVERTER AND DIFFERENTIAL. Check level each 10 hours with engine running at idle speed, oil at operating temperature and transmission in neutral. Maintain oil at "FULL" mark. Change oil each 1000 hours. Fill transmission to "LOW" mark and run engine at idle speed to fill con- verter and lines. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to br- ing to "FULL" mark. Operate for 5 minutes and check for leaks.
- 8. TRANSMISSION EXTERNAL OIL FILTER. Each 1000 hours, remove filter cartridge, clean housing and install new filter cartridge. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to bring to "FULL" mark. Operate for 5 minutes and check for leaks.

9. HYDRAULIC RESERVOIR. Each 500 hours check level and bring to "FULL" mark. Each 1000 hours, drain reservoir,

remove filter element, clean housing, In- stall new element and refill with OE/HDO. Operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark.

- 10. WHEEL BEARINGS. Each 1000 hours, remove wheels, clean and inspect all parts, replace damaged or worn parts, repack bearings, and assemble.
- 11. LUBRICANTS. The following is a list of lubricants with military symbols and applicable specification numbers.

E/HDO	MIL-L-2104
GAA	MIL-G-10924
OEA	MIL-L-46167
BFS	MIL-B-46176
(SD), Type II	P-D-680
ATF	Type A Suffix A
	NSN 9150-00-698-2382

Copy of this Lubrication Order will remain with the equipment at all times, instruc- tions 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

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A, Operator and Organizational maintenance requirements for Forklift Trucks

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