LUBRICATION ORDER

10 February 84

LO

LO 10 3930-621 12 (Supersedes LO 10-3930-621-12-1 and -2, 10 MARCH 1972)

TRUCK, LIFT, FORK, GED, SOLID RUBBER TIRED WHEELS, 4000 LB CAPACITY, 180-INCH LIFT (ALLIS-CHALMERS MODEL F40-24PS, ARMY MODEL MHE-209) (NSN 3930-00-459-5948), 100-INCH LIFT (ALLIS-CHALMERS MODEL F40-24PS100, ARMY MODEL MHE-224) (3930-00-165-4102)

Reference: TM 10-3930-621-12 and FEDERAL SUPPLY CATALOG C9100-IL

Hard time intervals and the related manhour 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. 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

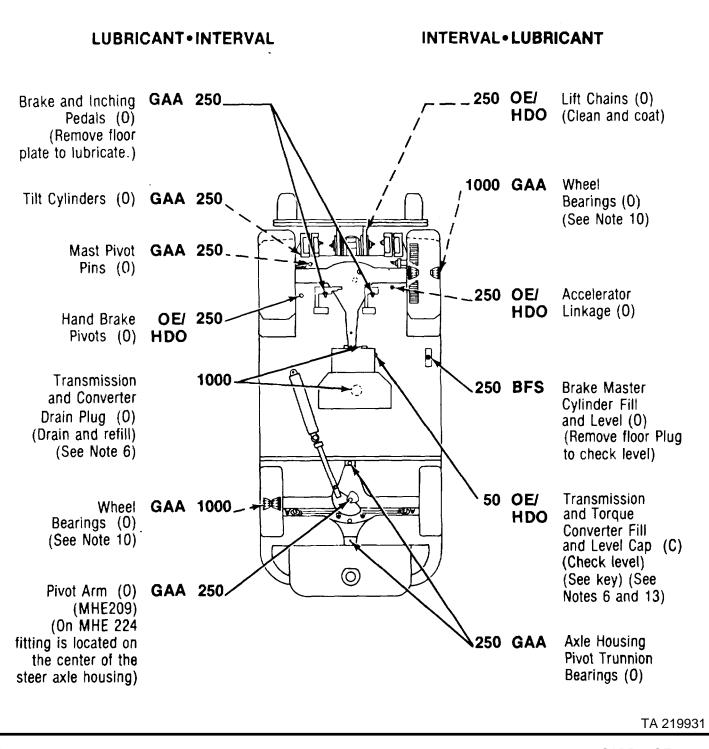
Dry cleaning fluid is flammable. Do not use near a flame or excessive heat. Use only with adequate ventilation. Avoid prolonged breathing of vapors and minimize skin contact. Clean parts or fittings with dry cleaning solvent (SD), Type II or equivalent. Dry before lubricating. Dotted arrow shafts indicate 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.

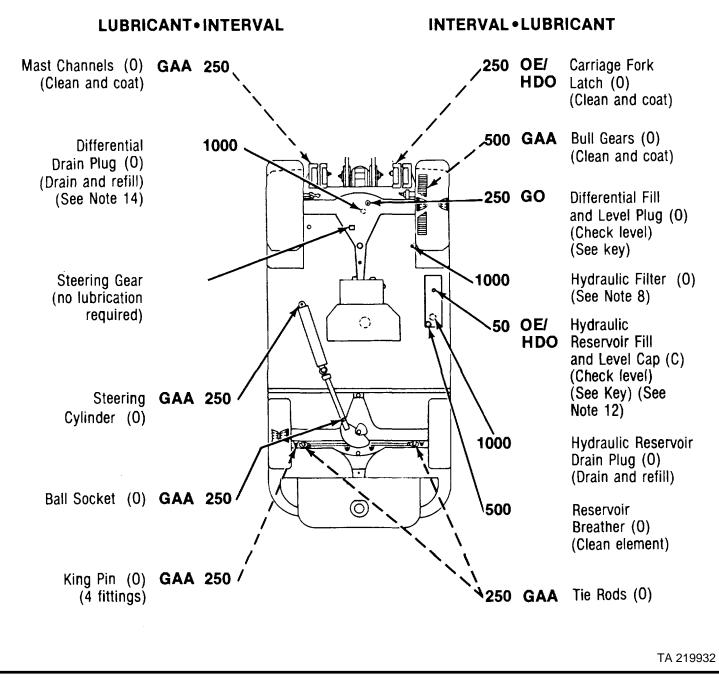
*The time specified is the time required to perform all services at the particular interval.

*TOTAL MAN-HOURS		*TOTAL MAN-H	IOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS	
10	0.2	500	2.6	
50	0.6	1000	3.0	
250	1.7			
				TA 2199
3930-621-12			CARD	1 OF 7



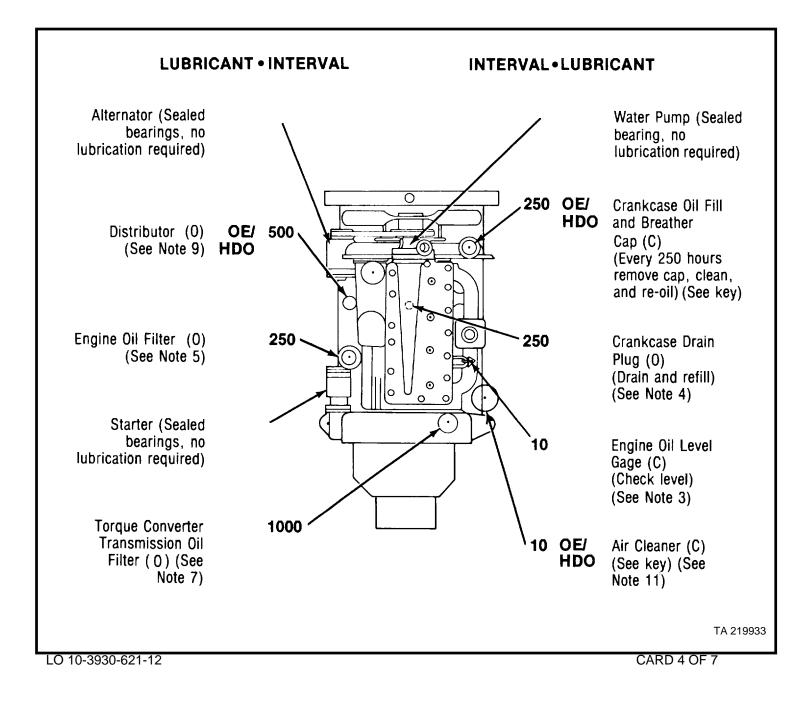
LO 10-3930-621-12

CARD 2 OF 7



LO 10-3930-621-13

CARD 3 OF 7



ATURES		
+ 40° to -65°F (+ 4° to -54°C)		
OEA (See Note 1)	1)	
	FM 9-207	
	Arctic given are given are in hours of norma operatio	
	of norma	
	operatio	
GO 75W		
ALL TEMPERATURES		
RES		
ALL TEMPERATURES ALL TEMPERATURES ification number.		

LO 10-3930-621-12

CARD 5 OF 7

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 250 hours lubricate shift linkage, control valve linkage, brake linkage, and all exposed adjusting threads with OE/HDO.

3. 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 element, clean housing and Install new filter element. After Installing new filter element, fill crankcase, operate engine for 5 minutes, check housing for leaks, check crankcase oil level and bring to "FULL" mark.

6. TRANSMISSION AND TORQUE CONVERTER. Check level each 50 hours with engine running at idle speed, oil at operating temperature and transmission in neutral. Maintain oil level at "FULL" mark. Change oil each 1000 hours. Access to torque converter drain plug Is gained through timing cover opening on engine flywheel housing. Rotate flywheel until drain plug Is in opening, remove plug and rotate flywheel until plug opening is aligned with drain opening at bottom of flywheel housing. Fill transmission to low mark. Run engine at idle speed to fill converter and lines. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to bring oil level to "FULL" mark. Operate for 5 minutes and check for leaks.

7. TRANSMISSION AND TORQUE CONVERTER OIL FILTER. Each 1000 hours, remove filter, clean filter mount, and install new filter and seal. Fill transmission to low mark. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to bring oil to "FULL" mark. Operate for 5 minutes and check filter for leaks.

8. HYDRAULIC OIL FILTER. Each 1000 hours, remove element, clean filter shell and install new element. After replacement, operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark.

9. DISTRIBUTOR. Each 500 hours, lubricate rotor wick with 3 or 4 drops of OE/HDO 10. Apply very light coat of GAA to breaker cam.

10. WHEEL BEARINGS. Each 1000 hours, remove wheels, inspect all parts, replace damaged or worn parts, repack bearings, and assemble.

11. AIR CLEANER. Fork Lift Model MHE-209 has oil bath type air cleaner.

Each 10 hours refill air reservoir to level mark. Each 50 hours disassemble entire unit, clean, re-oil and assemble.

Fork Lift Model MHE-224 has dry type air cleaner. Each 250 hours replace element.

12. HYDRAULIC RESERVOIR FILL AND LEVEL CAP. Fork Lift Model MHE-209, remove floor plate to check oil level.

Fork Lift Model MHE-224, open door on floor plate to check oil level.

13. TRANSMISSION AND TORQUE CONVERTER FILL AND LEVEL CAP. Fork Lift Model MHE-209, remove floor plate to check oil level.

TA 219935

LO 10-3930-621-21

CARD 6 OF 7

NOTES CONTINUED:

(SD), Type II

Fork Lift Model MHE-224, open door on floor plate to check oil level.

14. DIFFERENTIAL. Check level each 250 hours. Change gear lubricant each 1000 hours. After refill, operate for five minutes, check for leaks and bring oil level to fill and level plug opening.

15. LUBRICANTS. The following is a list of lubricants with military symbols and applicable specification numbers. OEIHDO MIL-L-2104 GO MIL-L-2105 GAA MIL-G-10924 OEA MIL-L-46167 BFS MIL-B-46176

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

DISTRIBUTION:

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

* U.S.GOVERNMENT PRINTING OFFICE: 1984-420-903/22

TA 219959

LO 10-3930-621-12

CARD 7 OF 7

7	2.19				Somet	NONE	WRONG	WITH THIS PUBLICATION	17
2			FORM, C	OUT IT IREFULI	ON THIS	FROM	(PRINT YOUR U	NIT'S COMPLETE ADDRESS)	-
			OUT, FOI IN THE I		ND DROP IT	DATE	SENT		
PUBLICATION NUMBER				PUBLICATION D		DATE PUBLICATION TITLE			
BE EXAC PAGE NO.	TPIN-P PARA- GRAPH	FIGURE	RE IT IS TABLE NO.	IN THIS	SPACE TELL	WHAT I	S WRONG E ABOUT IT:		
AINTED N	IAME. GRAC	E OR TITLE	. AND TELEP	IONE NUM	OER .	SIGN H	ERE:		

PIN: 054933

This fine document...

Was brought to you by me:



Liberated Manuals -- free army and government manuals

Why do I do it? I am tired of sleazy CD-ROM sellers, who take publicly available information, slap "watermarks" and other junk on it, and sell it. Those masters of search engine manipulation make sure that their sites that sell free information, come up first in search engines. They did not create it... They did not even scan it... Why should they get your money? Why are not letting you give those free manuals to your friends?

I am setting this document FREE. This document was made by the US Government and is NOT protected by Copyright. Feel free to share, republish, sell and so on.

I am not asking you for donations, fees or handouts. If you can, please provide a link to liberatedmanuals.com, so that free manuals come up first in search engines:

<A HREF=<u>http://www.liberatedmanuals.com/</u>>Free Military and Government Manuals

Sincerely
Igor Chudov
<u>http://igor.chudov.com/</u>
Chicago Machinery Movers