LUBRICATION ORDER

3 December 1991

LO 9-2320-363-12

TRUCK, TRACTOR, LINE HAUL
52,000 GVWR, 6X4, M915A2
(NSN 2320-01-272-5029)
AND
TRUCK, TRACTOR, LIGHT EQUIPMENT TRANSPORTER (LET)
68,000 GVWR, 6X6, W/WINCH, M916A1
(NSN 2320-01-272-5028)

Reference: TM 9-2320-363-20 and Federal Supply Catalog C9100-IL

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, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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.

Intervals shown in this Lubrication Order are based on calender and mileage. An example of a mileage and calender interval is 10/A, in which 10 stands for 10,000 miles and A stands for annually. This lubrication is to be performed at whatever interval occurs first for the vehicle. Special lubrication intervals and services are shown by use of an asterisk (*).

Clean parts and fittings with drycleaning solvent, Type II (SD-2) (P-D-680); solvent (biodegradable), (MIL-C-87936); or equivalent. Dry before lubricating. Dotted arrow points indicate lubrication on both sides of the equipment.

The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols, as appropriate: Operator/Crew (C); Unit Maintenance (O). Operator/Crew may lubricate points listed for Unit Maintenance (O) when authorized by Unit Maintenance.

On the lubrication chart there are references to notes and/or views. The views are shown on cards 10 through 18; the notes on cards 19 through 24.

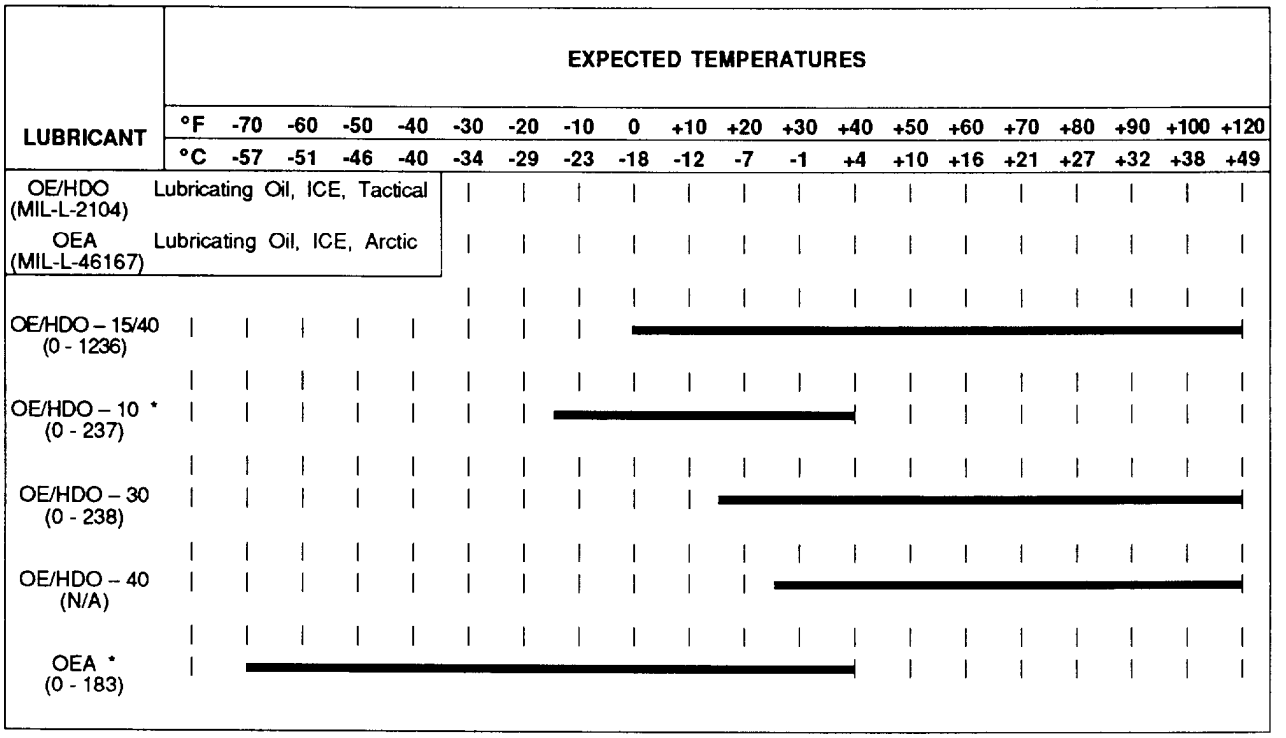
Approved for public release; distribution is unlimited

KEY

Lubricants (See Note 19)	Refill Capacity (Approximate)	Expected Temperatures	Intervals
OE/HDO Lubricating Oil I.C.E. Tactical (MIL-L-2104)			D - Daily
OEA Lubricating Oil I.C.E. Arctic (MIL-L-46167)			W - Weekly
Engine w/3 Filters	41 Quarts (38.78 Liters)	See Chart A	S - Semiannually
Transmission	33 Quarts (31.2 Liters)	See Chart B	A - Annually
Transfer Case (M916A1 only)	5 Quarts (4.7 Liters)	See Chart D	5 - 5,000 Miles
Power Steering	2 Quarts (1.9 Liters)	See Chart A	10 - 10,000 Miles
Winch Reservoir (M916A1 only)	42 Gallons (159 Liters)	See Chart C	20 - 20,000 Miles
Oil Can Points	As Required	See Chart A	75 - 75,000 Miles
GO Lubricating Oil, Gear, Multipurpose (MIL-L-2105)			OC - On-Condition
M915A2 Front Axle (Hub)	As Required	See Chart E	
M915A2 Differentials Forward-Rear Rear-Rear	 13 Quarts (12.3 Liters) 14.5 Quarts (13.7 Liters)	 See Chart E See Chart E	
M916A1 Differentials Forward-Rear Rear-Rear	 22 Quarts (20.8 Liters) 23 Quarts (21.8 Liters)	 See Chart E See Chart E	
M916A1 Differential (Front Drive Axle)	13.5 Quarts (12.8 Liters)	See Chart E	
Winch Drum (M916A1 only)	5 Quarts (4.7 Liters)	See Chart E	
GAA Grease, Automotive and Artillery (MIL-L-10924)			
Front Wheel Knuckle (M915A2 only)	As Required	All Temperatures	
Front Axle Spring	As Required	All Temperatures	

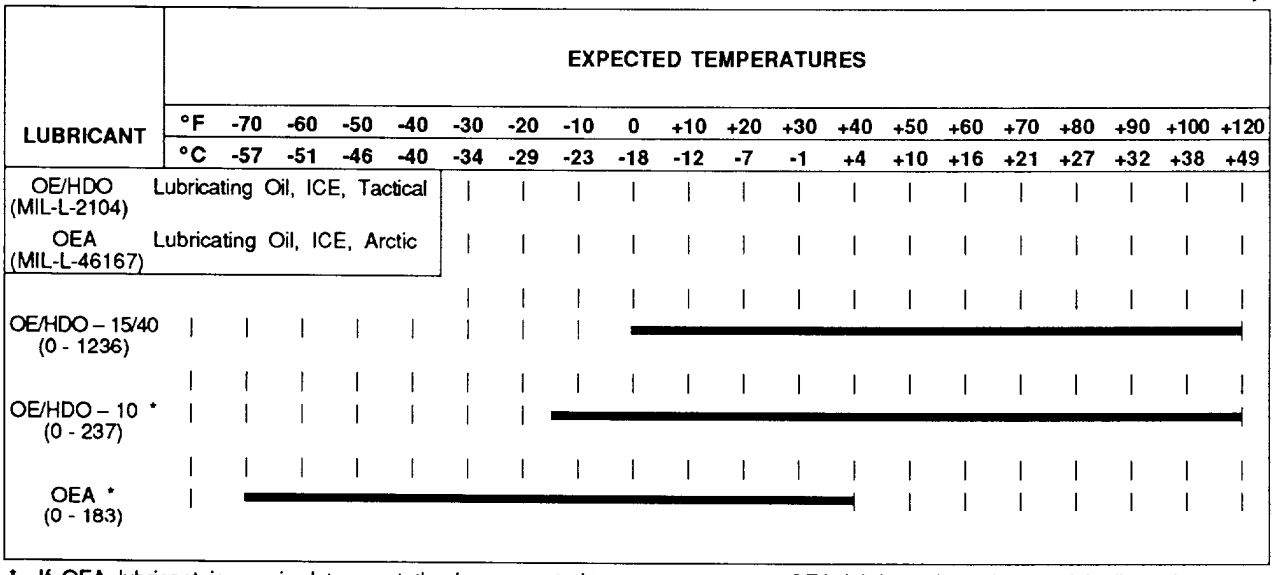
KEY			
Lubricants (See Note 19)	**Refill Capacity (Approximate)**	**Expected Temperatures**	**Intervals**
Rear Axle Spring	As Required	All Temperatures	D - Daily W - Weekly S - Semiannually A - Annually 5 - 5,000 Miles 10- 10,000 Miles 20 - 20,000 Miles 75- 75,000 Miles OC - On-Condition
Equalizing Beam	As Required	All Temperatures	
Fifth Wheel	As Required	All Temperatures	
Steering Gear and Shaft Universals	As Required	All Temperatures	
Camshaft Slack Adjusters	As Required	All Temperatures	
Camshaft Bushings	As Required	All Temperatures	
Pintle Hook	As Required	All Temperatures	
Tach Drive	As Required	All Temperatures	
Wheel Bearings	As Required	All Temperatures	
Tie Rod	As Required	All Temperatures	
Fan Hub	As Required	All Temperatures	
Driveline Universal Joints, Slip Yokes, and Splines	As Required	All Temperatures	
Trunnion Universal Joint (M916A1 only)	As Required	All Temperatures	
Speedometer (M916A1 only)	As Required	All Temperatures	
Tail Roller (M916A1 only)	As Required	All Temperatures	
Winch Cable (M916A1 only)	As Required	All Temperatures	
Taillights	As Required	All Temperatures	
Antifreeze, Ethylene Glycol, Inhibited, Heavy Duty (MIL-A-46153) Antifreeze, Arctic Type (MIL-A-11755)	Total Capacity 65 Quarts (61.5 Liters)	See Chart F	
Drycleaning Solvent, Type II (SD-2) (P-D-680)	As Required	All Temperatures	
Solvent (biodegradable) (MIL-C-87936)		All Temperatures	

CHART A (TO BE USED FOR SPECIFYING LUBRICANTS FOR ENGINE, POWER STEERING, AND OIL CAN APPLICATIONS)



* If OEA lubricant is required to meet the low expected-temperature range, OEA lubricant is to be used in lieu of OE/HDO – 10 lubricant for all expected temperatures where OE/HDO – 10 is specified.

CHART B (TO BE USED FOR SPECIFYING LUBRICANTS FOR TRANSMISSION APPLICATIONS)



* If OEA lubricant is required to meet the low expected-temperature range, OEA lubricant is to be used in lieu of OE/HDO – 15/40 lubricant for all expected temperatures where OE/HDO – 10 and OE/HDO – 15/40 is specified.

CHART C (TO BE USED FOR SPECIFYING OE/HDO FOR HYDRAULIC APPLICATIONS)

LUBRICANT	EXPECTED TEMPERATURES																			
°F	-70	-60	-50	-40	-30	-20	-10	0	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	+120
°C	-57	-51	-46	-40	-34	-29	-23	-18	-12	-7	-1	+4	+10	+16	+21	+27	+32	+38	+49
OE/HDO (MIL-L-2104)	Lubricating Oil, ICE, Tactical																			
OEA (MIL-L-46167)	Lubricating Oil, ICE, Arctic																			
OE/HDO – 10 * (0 - 237)							———	———	———	———	———	———	———	———	———	———	———	———	———	———
OEA * (0 - 183)	———	———	———	———	———	———	———	———	———	———	———	———								

* If OEA lubricant is required to meet the low expected-temperature range, OEA lubricant is to be used in lieu of OE/HDO – 10 lubricant for all expected temperatures where OE/HDO – 10 is specified.

CHART D (TO BE USED FOR SPECIFYING LUBRICANTS FOR TRANSFER CASE)

LUBRICANT	EXPECTED TEMPERATURES																			
°F	-70	-60	-50	-40	-30	-20	-10	0	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	+120
°C	-57	-51	-46	-40	-34	-29	-23	-18	-12	-7	-1	+4	+10	+16	+21	+27	+32	+38	+49
OE/HDO (MIL-L-2104)	Lubricating Oil, ICE, Tactical																			
OEA (MIL-L-46167)	Lubricating Oil, ICE, Arctic																			
OE/HDO – 40 (N/A)											———	———	———	———	———	———	———	———	———	———
OEA * (0-183)	———	———	———	———	———	———	———	———	———	———	———	———								

* If OEA lubricant is required to meet the low expected-temperature range, OEA lubricant is to be used in lieu of OE/HDO – 10 lubricant for all expected temperatures where OE/HDO – 10 is specified.