
**TRUCK, LIFT, FORK, CLEAN BURN DIESEL, FRONT/SIDE LOADING
6,000 LB CAPACITY MODEL R60SL-DC
NSN 3930-01-378-7497**

References: TM 10-3930-669-10, TM 10-3930-669-20, TM 10-3930-669-34, TM 9-4910-709-14&D, FSC C9100-IL

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

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, DA Form 2028 (Recommended Changes to Publications and Blank Forms) to: Commander, US Army Tank-automotive and Armaments Command, ATTN: AMSTA-IM-OPIT, Warren, MI 48397-5000. A reply will be furnished to you. You may also provide DA Form 2028-2 information to TACOM via datafax or e-mail. TACOM's datafax number for AMSTA-IM-OPIT is (810) 574-6323 and the e-mail address is: amsta-im-opit@cc.tacom-tech-pubs@cc.tacom.army.mil.

Maintenance Levels. This Lubrication Order(L0) is for Operator/Crew and Unit Maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by either Operator/Crew (C) or Unit Maintenance (0). Operator/Crew may lubricate points authorized for Unit Maintenance when authorized by Unit Maintenance.

Locators. Points indicated with dotted lines are lubricated on both sides of the forklift. Reference to the appropriate localized view is given after most lubrication entries. Localized views begin on Card 9.

Lube Intervals. Intervals (on-condition or hard-time) and the related man-hour times are based on normal operation. The man-hour times

specified is the time needed 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 lubricants are contaminated or if operating the equipment under adverse operating conditions, including longer-than-usual operating hours. The calendar 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. Hard-time intervals must be applied during the warranty period. Intervals shown in this lubrication section are hourly. Notes are located on Cards 19 to 21.

WARNING

- Drycleaning solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in a well-ventilated area; avoid contact with skin, eyes, and clothes; and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for type I drycleaning solvent is 100°F (38°C) and for type II is 138°F (50°C). Failure to do so may result in injury or death to personnel.
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get immediate medical attention.

Cleaning. Clean grease fitting and grease gun tip before lubricating. Clean parts with drycleaning solvent (P-D-680, Type II or equivalent). Dry before lubricating. After high-pressure washing, lubricate all fittings and oil can points outside and underneath the forklift. Drain if water is found. For corrosion control, refer to TM 10-3930-669-10.

AOAP Sampling. Engine oil must be sampled at 50 hours of operation or 90 days, whichever occurs first, for Active Army Units. Transmission oil must be sampled at 100 hours of operation or 90 **days**, whichever occurs first,

for Active Army Units. Reserve and National Guard activities will use 50 hours or 180 days, whichever occurs first, as prescribed interval. Hydraulic fluid will be sampled once a year. Sampling will be performed as prescribed by DA Pam 738-750.

Warranty Statement. For Equipment under manufacturer's warranty, hard-time oil service intervals shall be followed. Intervals shall be shortened if lubricants are to be contaminated or if operation is under adverse conditions such as longer than usual operating hours, extended idling periods, or extreme dust.

- KEY -

LUBRICATION POINT	CAPACITIES	EXPECTED TEMPERATURES	LUBRICANT	INTERVAL
Engine Crankcase	10 qt. (9.5 l)	See Chart A		AR- As Required OC- On Condition 10HRS 100HRS 250HRS 500HRS 1000HRS 2000HRS
Shift Carriage	As Required	GAA Grease, Automotive and Artillery, (MIL-G-10924) All Temperatures		
Pivot Cylinder	As Required			
Steer Axle	As Required			
Tilt Cylinder	As Required			
Shift Cam Rollers	As Required			
Shift Cylinder	A s R e q u i r e d			
Pivot Shaft Bearing	As Required			
Mast Tilt	As Required			
Steering Wheel Bearings	As Required			
Fork Latches	As Required	SAE Lubricating Oil, General Purpose, (MIL-L-15016) All Temperatures		
Hood Latches	As Required			
Throttle Linkage	As Required			
Transmission	8 qt. (7.57)	See Chart B		
Shift and Mast Chains	As Required	CPC Corrosion Preventive Compound (MIL-C-46176) All Tempatures		
Drive Axle	(5.67 l)	See Chart C		
Hydraulic Oil Tank	10.8 gal. (40.1 l)	See Chart B		
Master Cylinder	0.75 qt. (0.7 l)	BFS Silicone Brake Fluid, Automotive (MIL-L-46176) All Temperatures		

CHART A. ENGINE

EXPECTED TEMPERATURE																			
°F	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	
°C	-46	-40	-34	-29	-23	-18	-12	-7	-1	4	10	16	21	27	32	38	43	49	
							OE/HDO LUBRICATING OIL, ICE, TACTICAL (MIL-L-2104)												
							OEA LUBRICATING OIL, ICE, ARCTIC (MIL-L-46167)												
LUBRICANTS:	OE/HDO LUBRICATING OIL, ICE, TACTICAL (MIL-L-2104) OEA LUBRICATING OIL, ICE, ARCTIC (MIL-L-46167)																		

'See Note 2a

CHART B. TRANSMISSION/HYDRAULIC

	EXPECTED TEMPERATURE																		
° F	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	
° C	-46	-40	-34	-29	-23	-18	-12	-7	-1	4	10	16	21	27	32	38	43	1	
LUBRICANTS:	OE/HDO LUBRICATING OIL, ICE, TACTICAL (MIL-L-46152)																		

See Notes 3a, 3b, and 3c

CHART C. DRIVE AXLE

EXPECTED TEMPERATURE																			
°F	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	
°C	-46	-40	-34	-29	-23	-18	-12	-7	-1	4	10	16	21	27	32	38	43	49	
							GO - 80W/90												
				GO - 76															

LUBRICANTS: LUBRICATING OIL, GEAR, MULTIPURPOSE (MIL-L-2105)

*See Notes 5a through 5d

LUBRICANT • INTERVAL

ENGINE COVER HINGES

Lubricate. (0)
(See Note 7 and View 1.)

SAE

1000HRS

SHIFT CAM ROLLERS

Lubricate. (0) (2 Fittings)
(See Note 1c and View 4.)

GAA

250HRS

SHIFT AND MAST CHAINS

Lubricate. (0) (6 Chains)
(See Note 1b and Views 2 and 3.)

CPC

250HRS

PIVOT CYLINDER

Lubricate Clevis. (0)
(See Note 1d and View 5.)

GAA

50HRS

SHIFT CYLINDER

Lubricate. (0) (3 Fittings)
(See View 6.)

GAA

50HRS

SHIFT CARRIAGE

Lubricate. (0)
(See View 7.)

GAA

8HRS

DOOR LATCH AND HINGES

Lubricate. (0) (4 Oil Points) (See SAE
Note 7a and Views 12 and 39.)

1000HRS

FUEL TANK

Drain Sediment. (0)
(See Notes 4a, 4b, 4d, and 4e
and View 14.)

OC

FORK LATCHES

Lubricate. (0)
(See Note 7a and View 8.)

SAE

1000HRS

MAST TILT

Lubricate. (0)
(See Note 1a and View 9.)

GAA

250HRS

TILT CYLINDER

Lubricate Clevis. (0)
(See Note 1d and View 10.)

GAA

50HRS

