

LUBRICATION ORDER

LO 5-3910-202-12

30 December 83

(Supersedes LO 5-3910-202-15. 29 JANUARY 1963)

CONVEYOR, BELT: 300-TONS PER HR; WHEEL
MOUNTED,
PNEUMATIC TIRES, ELECTRIC DRIVEN, AC, 10 HP,
416 V, 3 PHASE, 60 HZ, 50-FT LONG; 24-INCH BELT
(BARBER-GREENE MODEL PG 70)
(NSN 3910-00-790-2175)

Reference: TM 5-3910-202-15 and FEDERAL SUPPLY CATALOG C9100-IL.

Hard time intervals 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. 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.

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-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
10	0.1	1000	2.5
50	1.0		

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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Reduction Gearcase Fill (0)
(See Key)

Reduction Gearcase Sight Glass (C)
(Check level)

Reduction Gearcase Drain (0)
(Drain and refill)
(See Note 6)

Drive Motor Bearings
(See Note 4)

Wheel Bearings (0)
(See Note 3)

Cable Reel (0)

Return Rolls (4 fittings)
(See Note 5)

Flat Roll
(See Note 5)

Inner Footshaft Bearing (0)
(See Note 7)

GO

10

C/MR

GAA 1000

GAA 50

GAA 50

50 GAA

50

OHT

1000

50 GAA

Headshaft Bearings (0)
(See Note 8)

Snub Rolls (2 fittings)
(See Note 5)

Hydraulic Reservoir Level (C)
(Check level)

Hydraulic Reservoir Fill (0)
Breather and Screen
(See Key and Note 9)

Hydraulic Reservoir Drain (0)
(Drain and refill)

Troughing Rolls (14 fittings)
(See Note 5)

Outer Footshaft Bearing (0)
(See Note 10)

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--*KEY--

LUBRICANTS	CAPACITY	Above +15° F (Above -9° C)	+40° to -15° F (+4° to -26° C)	+40° to -65° F (+4° to -54° C)	For Arctic operations refer to FM 9-207	INTERVALS C/MR - Condition Monitor Intervals given are in hours of normal operation.	
OE/ HDO - Lubricating Oil, Internal Combustion Engine, Tactical Service		OE/HDO 30	OE/HDO 10				OEA (See Note 1)
OEA - Lubricating Oil, Internal Combustion, Arctic - Oil Can Points (See Note 2)							
GO - Lubricating Oil, Gear, Multipurpose - Reduction Gearcase	5 qts. (4.7 L)	GO 80W/90	GO 80W/90	GO 75W			
OHT - Hydraulic Fluid, Petroleum Base, Preservative - Hydraulic Reservoir	16 qts. (14.2 L)	ALL TEMPERATURES					
GAA - Grease, Automotive and Artillery		ALL TEMPERATURES					

*See Note 11 for lubricant specification number.

NOTES

- 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.
- OIL CAN POINTS. Each 100 hours lubricate wheel hinge pins, all adjusting bolts, and exposed threads with OE/HDO.
- WHEEL BEARINGS. Each 1000 hours remove wheels, clean and inspect all parts, replace worn or damaged parts, repack bearings, and reassemble.
- DRIVE MOTOR BEARINGS. Lubricated by Direct Support Maintenance at time of disassembly

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NOTES - CONTINUED:

5. SEALED BEARINGS. No lubrication is required.

6. REDUCTION GEARCASE. Check level each 10 hours. Add oil and bring to level of sight glass. 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 to "FULL" mark.

7. INNER FOOTSHAFT BEARING. Each 50 hours, remove plug, lubricate with GAA until lubricant appears at hole, and install plug.

8. HEADSHAFT BEARINGS. Remove two plugs, install fitting in one hole and lubricate with GAA until lubricant appears at other hole. Remove fitting and reinstall both plugs.

9. HYDRAULIC RESERVOIR FILL, BREATHER, AND SCREEN. Each 50 hours remove, clean screen and breather, and reinstall.

10. OUTER FOOTSHAFT BEARING. Each 50 hours, remove plug, lubricate with GAA until lubricant appears at hole, and install plug.

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

OE/HDO	MIL-L-2104
GO	MIL-L-2105
GAA	MIL-G-10924
OEA	MIL-L-46167
OHT	MIL-H-6083
(SD), Type II	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 12-25B, Operator and Organizational maintenance requirements for Conveyor Belts.

TA220116

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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