

LUBRICATION ORDER

19 July 1984 (Supersedes LO 5-3810-295-12-1, -2 and -3, 20 July 1976)

CRANE WHEEL MOUNTED;
20-TON AT 10 FOOT RADIUS,
2 ENGINES, DIESEL ENGINE DRIVEN, 4 x 4 AIR
TRANSPORTABLE (HARNISCHFEGER CORP,
MODEL 320 RT) (NSN 3810-00-275-1167)

Reference: TM 5-3810-295-12 and FEDERAL SUPPLY CATALOG C9100-IL.

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.

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.

*The time specified is the time required to perform all services at the particular interval (on-condition or hard times).

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.

*TOTAL MAN-HOURS		*TOTAL MAN-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
10	2.3	500	1.2
50	2.3	1000	1.8
100	2.0		

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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Engine Oil
Level Gage (C)
(Check level)
(See Note 4)

10

Engine Oil
Filter (O)
(Change)
(See Notes 1
and 6)

OC
or
100

Brake Fluid
Reservoir (C)
(Check level
and fill)

BFS 10

Clutch Release
Collar (O)

GAA 10

Swing Brake
Lever (O)

GAA 50

Gear Reduction
Oil Level
Gage (O)
(Check
level)

50

Center
Pin (O)

GAA 10

Foot
Pedal &
Hand Levers (O)
(6 fittings)

GAA 50

OC
or
100

Engine Crankcase
Drain (O)
(Drain and refill)
(See Notes 1 and 5)

10

OE/
HDO

Air Cleaner (O)
(See Note 9)

OE/
HDO

Engine Oil Fill (C)
(See Key)

50

GAA

Clutch Cross
Shaft (O)
(2 fittings)

OE/
HDO

Gear Reduction
Oil Fill (O)
(See Key)

1000

Gear Reduction
Oil Drain (O)
(Drain and refill)

50

GAA

Universal End
Joint (O)
(3 fittings)

50

GAA

Swing Brake (O)
(Repack at
1000 hrs)

200

GO

Gear and Chain
Case (O)
(Check level and
fill) (See Note 10)
(See Key)

50

GAA

Swing Lock (O)
(3 fittings)

1000

GAA

House Lock (O)

1000

GAA

House Lock
Lever (O)

CRANE

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LUBRICANT • INTERVAL

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Horizontal
Swing Shaft (0)
(2 shots)
(2 fittings)
(Repack at
1000 hrs)

GAA 10

10 GAA

Swing Clutch
Housing (0)



HORIZONTAL SWING SHAFT

Rear Hoist
Drum (0)

GAA 50

50 CW

Drive Gears (0)
(Clean and coat)
(See Key)

Rear Hoist
Drum Shaft (0)
(4 fittings)
(Repack at
1000 hrs)

GAA 50

**10 OE/
HDO**

Chain and
Sprocket (0)
(Clean and coat
sparingly)

Boom Hoist
Shaft (0)
(Repack)

GAA 1000

50 GAA

Front Hoist
Drum Shaft (0)
(Repack at
1000 hrs)

Boom Planetary
Pawls (0)
(3 fittings)

GAA 50

50 GAA

Bearing (0)

Boom Hoist
Planetary (0)

GAA 50

50 GAA

Reversing
Shaft (0)
(Repack at
1000 hrs)

**10 OE/
HDO**

Chain and
Sprocket (0)
(Clean and coat
sparingly)

HOIST DRIVE SYSTEM

Live Rollers (0)
(28 fittings)
(2 shots)

GAA 10

10 CW

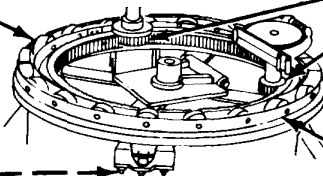
Swing Shaft
and Gears (0)
(Clean and coat)
(See Key)

Hook Rollers (0)
(Beneath deck)
(6 fittings)

GAA 10

50 GAA

Roller Path (0)
(Clean and coat)



ROLLER CIRCLE TURNTABLE ASSY

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