

LUBRICATION

ORDER

5 MARCH 1973 (Supersedes LO 5-4310-219-20 dated 24 JAN 62)

**COMPRESSOR, ROTARY: WHEEL MOUNTED, PNEUMATIC TIRES;
DIESEL DRIVEN; 600 CFM; 100 PSI (INGERSOLL-RAND MODEL
DR-600) W/ENGINE, G.M.C. MODEL 6045-C**

Reference: TM 5-4310-219-10,-20 and FEDERAL SUPPLY CATALOG C9100-IL

Intervals are based on normal hours of operations. Adjust to compensate for abnormal operations and severe conditions. During inactive periods, sufficient lubrication must be performed for adequate preservation.

Clean parts with SOLVENT, dry-cleaning, or with OIL, fuel, Diesel. Dry before lubricating.

Lubricate points indicated by dotted arrow shafts on both sides of equipment.

Clean fittings before lubricating.

Drain crankcase when hot. Fill and check level.

Relubricate after washing or fording.

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

*TOTAL MAN-HR		*TOTAL MAN-HR	
INTERVAL	MAN-HR	INTERVAL	MAN-HR
10	0.4	500	2.0
50	1.5	1000	2.0
100	1.3	4000	2.5
250	0.6		

FOLD

FOLD

LUBRICANT - INTERVAL

INTERVAL - LUBRICANT

Slack Adjuster
(Remove plug, install fitting, lubricate, re-install plug)

GAA 1000

Shackle Bolt

GAA 250

Shackle Bolt

GAA 250

Yoke Pins

GAA 250

Fan Hub Bearings
(Remove plug, install fitting, lubricate, and re-install plug)

GAA 500

Generator Bearings
(Sealed bearings, no lubrication required)

Compressor Oil Cooler
Drain Plug
(See notes 3 and 4)

500

Starter Motor Bearings OE/HDO

500

REAR AXLE

STEERING MECHANISM

COMPRESSOR (LEFT SIDE)

250

GAA Brake Camshaft

250

GAA Center Steering Arm
(2 fittings, upper and lower)

250

GAA Steering Knuckles
(2 fittings, upper and lower)

10

Compressor Oil Filter
(See note 6)

100

Compressor Oil Filter
Drain Plug
(Drain and refill)

Compressor Oil Vent
Plug
(See notes 3 and 4)

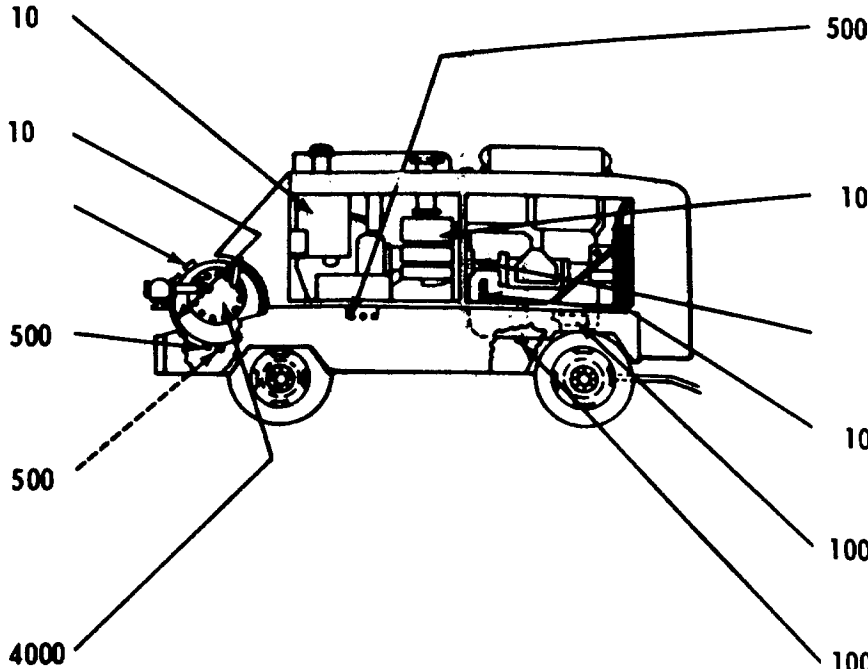
1000

GAA Wheel Bearings
(See note 7)

LUBRICANT - INTERVAL

INTERVAL - LUBRICANT

- Compressor Air Cleaner 2110TH 10
(Check, refill to level)
(See note 8) (See key)
- Oil Level Gage 10
(Check level)
- Compressor Oil Filler Plug 2110TH
(See key) (See note 3)
- Compressor Oil Temperature Valve Drain Plug 500
(Drain and refill)
(See notes 3 and 4)
- Oil Separator Tank Drain Plug and Sediment Trap Valve 500
(Drain and refill)
(See notes 3 and 4)
- Oil Separator Element 4000
(See note 9)



- 500 Compressor Oil Drain Plugs
(Drain and refill)
(See notes 3 and 4)
- 10 OE/HDO Engine Air Cleaner
(Check, refill to level)
(See note 8) (See key)
- OE/HDO Engine Oil Filler Cap
(See key)
- 10 Engine Oil Dipstick
(Check level)
- 100 Engine Oil Filter
(See note 5)
- 100 Engine Oil Drain Plug
(Drain and refill)

- KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32° F	+40° F to -10° F	0° F to -65° F	
OE/HDO-LUBRICATING OIL, Engine					Intervals given are in hours of normal operation
Engine Crankcase	29qt	OE/HDO 30	OE/HDO 10	OES	
Engine Air Cleaner	See Note 8				
Oil Can Points					
OES-LUBRICATING OIL, General Purpose					
2110TH-LUBRICATING OIL, General Purpose					
Compressor Air Cleaner	See Note 8	2110TH	2110TH	OES	
Compressor Oil System	120 qt				
GAA-GREASE, Automotive and Artillery		ALL TEMPERATURES			

FOLD

FOLD

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW - 10° F. Remove lubricants prescribed in the key for temperatures above - 10° F. Clean parts with SOLVENT, dry-cleaning. Relubricate with lubricants specified in the key for temperatures below - 10° F.

2. OIL CAN POINTS. Every 50 hours lubricate regulator and governor linkage, control linkage, pins and clevises, and all exposed adjusting threads with OE/HDO.

3. **CAUTION: Release air pressure before removing drain plugs or fill plug. Do not use inflammable diluents in compressor oil system.**

4. COMPRESSOR OIL SYSTEM - SERIAL NO. RANGES FROM 600AR 18589 THRU 600AR 23880. Every 500 hours to drain oil, remove plugs from oil temperature valve, oil separator tank, compressor, compressor cooler, oil vent, and compressor oil filter. Every 10 hours, to drain water and sediment, remove plug from oil temperature valve and drain only until oil appears. SERIAL NO. RANGE 600AR 23882 THRU 600AR 23933. To drain, follow above procedure and also open water sediment trap valve. Every 10 hours, to drain water and sediment, open sediment trap valve and drain only until oil appears.

5. ENGINE OIL FILTER. Every 100 hours remove filter element, clean housing, install new element, fill crankcase, operate engine for five minutes, and check for leaks. Allow 15 minutes for oil to settle, check level, and bring to full mark.

6. COMPRESSOR OIL FILTER. Every 10 hours turn handle one turn preferably after stopping unit. Every 100 hours remove filter element from filter base, wash in approved solvent, and re-install element. If lacquer deposit is noted, change compressor oil completely to avoid vane sticking in the compressor.

7. WHEEL BEARINGS. Every 1000 hours remove wheels; clean and inspect all parts, replace damaged or worn parts, repack bearings, and reassemble.

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8. ENGINE AND COMPRESSOR AIR CLEANER. Every 50 hours disassemble, clean, reassemble, and fill to oil level. Serial No. Ranges and Capacities: 600AR 18589 thru 600AR 18838, 5 1/2 qt. ea; 600AR 21871 thru 600AR 22070, 5 qt. ea; 600AR 23671 thru 600AR 23880 and 600AR 23882 thru 600AR 23933, 7 qt. ea.

9. OIL SEPARATOR ELEMENT: The oil separator element shall be replaced every 4,000 hours of operations. This procedure is necessary due to the depositing of metal salts on the element as the oil is separated from the air. Do not attempt to clean the element or re-use the element because of its clean appearance.

WARNING

Destroy used element to prevent accidental re-use. Over pollution of metal salts collecting on the element can become a hazardous condition by lowering the flash point and causing a fire in the separator.

10. LUBRICANTS. The following is a list of lubricants with the Military Symbols and applicable specification numbers.

OE/HDO MIL-L-2104C	OES MIL-L-10295
GAA MIL-G-10924	2110TH MIL-L-17672

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:

CREIGHTON W. ABRAMS
General, United States Army
Chief of Staff

OFFICIAL:

VERNE L. BOWERS
Major General, United States Army
The Adjutant General

DISTRIBUTION: To be distributed in accordance with DA Form 12-25A (qty rqr block no. 41). Operator requirements for Air Compressor, 600 CFM.

