LUBRICATION ORDER

ARMY LO 5-4310-452-12 MARINE CORPS LI08917A-12

30 Jul 1987

COMPRESSOR, ROTARY, AIR, DED, 250 CFM, 100 PSI TRAILER MOUNTED NSN 4310-01-158-3262

Ingersoll-Rand Model P-250-WDM-H268

COMPONENT OF PNEUMATIC TOOL AND COMPRESSOR OUTFIT NSN 3820-00-950-8584

Reference TM 5-4310-452-14&P/TM 08917A-14&P

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 longerthan-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.

Clean fittings before lubricating. Clean parts with dry cleaning solvent (SD), type II

TOTAL MAN-HR

INTERVAL	MAN-HR
D	0.1
S	0.8

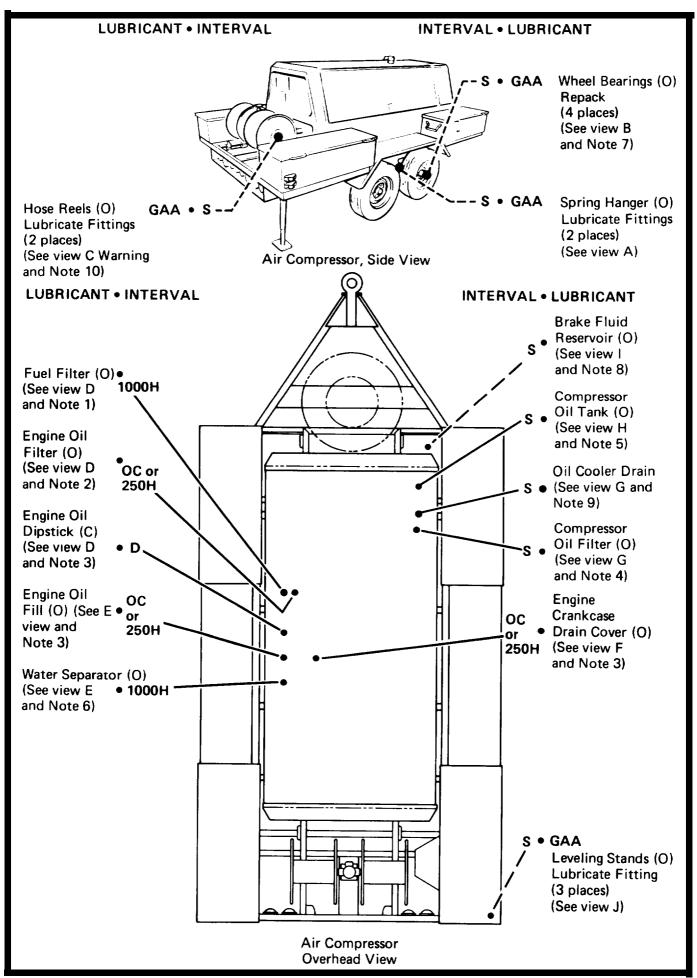
or equivalent. Dry before lubricating. Dotted arrow points indicate lubrication on both sides of the equipment.

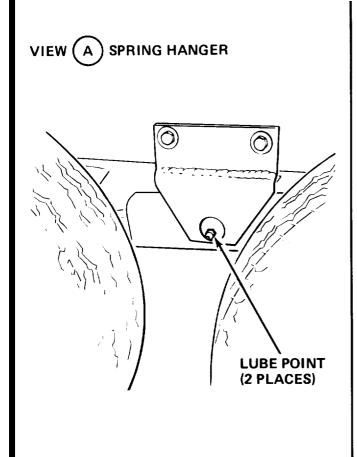
Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/Crew (C); and Organizational Maintenance (O).

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: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

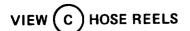
Marine Corps Personnel submit NAV-MO 10772 to Commanding General, Marine Corps Logistics Base, Code 850, Albany, GA 31704-5000.

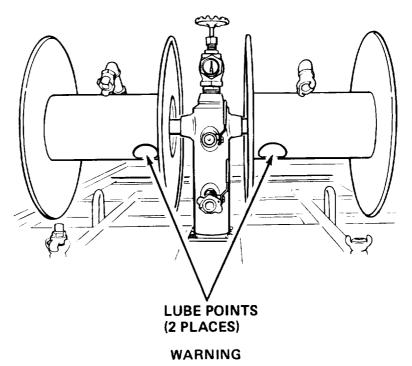
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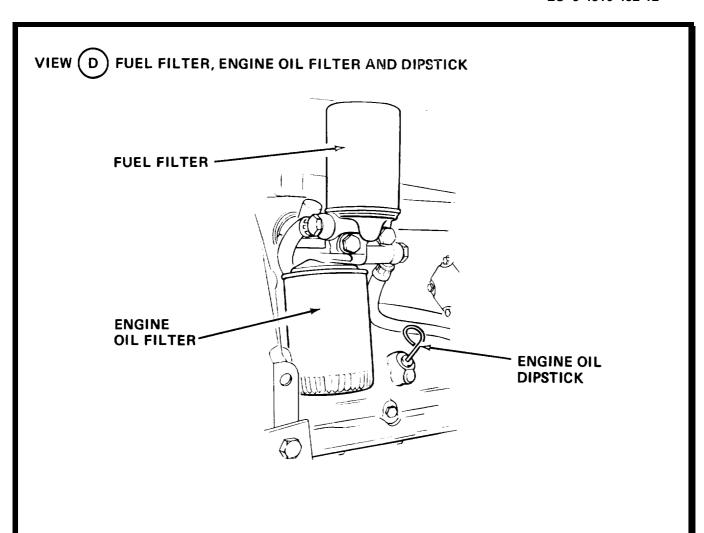




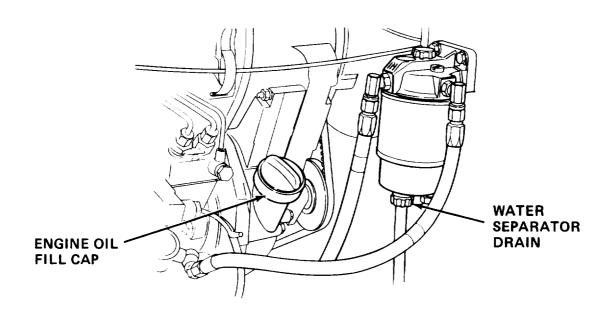




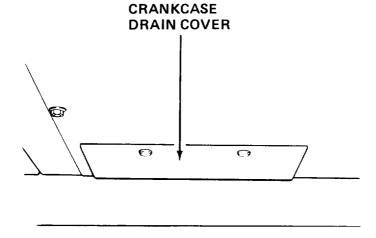
Relieve air pressure, with engine off, before lubricating grease fittings.

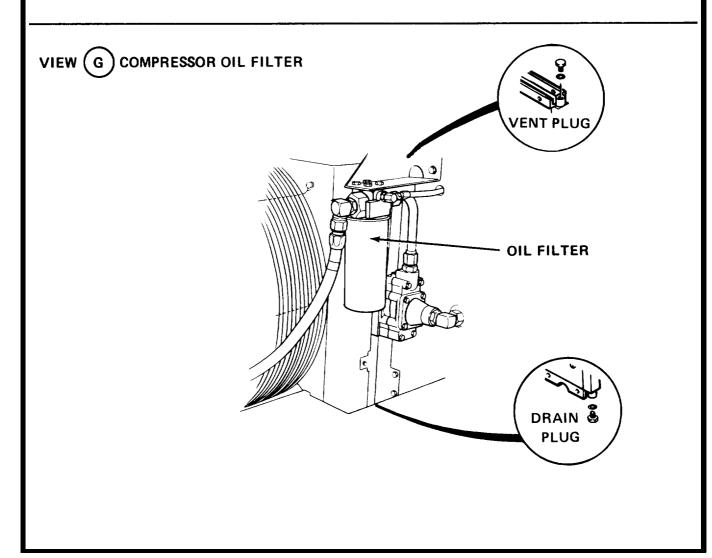


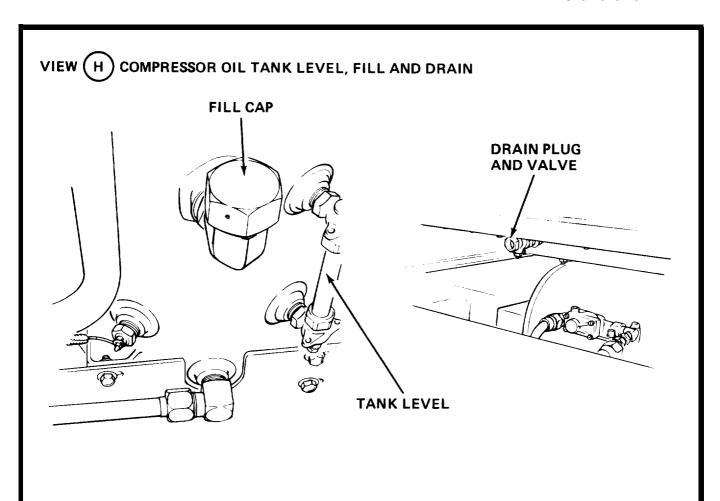




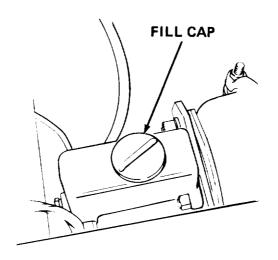




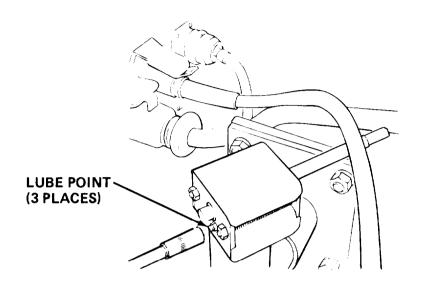




VIEW (I) BRAKE FLUID RESERVOIR







KEY

		EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITIES (APP.)	Above 15 ^o F (Above -9 ^o C)	-15°F to +40°F (-26°C to 4°C)	-65°F to +20°F (54°C to °C)	
OE/HDO Lubricating Oil, Engine (MIL-L- 2104)					FM9-207.
OEA Lubricating Oil, Arctic (MIL-L- 46167)					refer to
Engine Crankcase	9.5 litres 10 quarts	OE/HDO-30 (1 and 2)	OE/HD-10 ⁽³⁾	OEA	ic operation,
Compressor	22.7 litres 6 U.S. Gal.	OE/HDO-10 ⁽³⁾		OEA	For Artic
GAA Grease Auto- motive (MIL-G- 10924) & Artillery	As req'd	А	LL TEMPERATUR	ES	

- 1. Grade 15W/40 (OE/HDO 15/40) may be used when expected temperatures are above $+5^{\circ}$ F (-15° C).
- 2. D = Daily, S = Semi-annually.

3. If OEA lubricant is required to meet the low "expected temperature" range, OEA lubricant is to be used in place of OE/HDO-10 lubricant for all expected temperature ranges where OE/HDO-10 is specified in the key.

NOTES

- 1. FUEL FI LTER. Remove filter, clean mounting base. Apply film of oil to new filter gasket. Install new filter until gasket contacts base, then turn an additional 3/4 turn. Air-vent fuel system.
- 2. ENGINE OIL FILTER. Remove filter, clean mounting base. Apply film of engine oil to new filter gasket. Install new filter until gasket contacts base, then turn an additional 3/4 turn.
- 3. ENGINE OIL LEVEL AND CRANKCASE. Check oil level daily. Change engine crankcase oil every 250 operating hours when fuel sulphur content is 0.5% or less. Change 011 every 125 hours when fuel sulphur content is greater than 0.5%. Remove three screws and drain cover. Remove drain plug and allow oil to drain. Replace oil filter (Note 2). Install drain plug and drain cover. Fill crankcase. Run engine at low idle for 5 minutes. Stop engine and recheck oil level.
- 4. COMPRESSOR OIL FILTER. Remove filter. Clean mounting base. Apply film of engine oil to new filter gasket. Install new filter until gasket contacts base, then turn an additional 3/4 turn.
- 5. COMPRESSOR OIL TANK. Air receiver systern must be completely relieved of all air pressure before servicing. Check oil level daily. Add oil only if the level falls to the bottom of the sight gauge when the unit is not running. Make sure that the compressor oil level is Official: never above the top of sight gauge. To drain tank; remove plug, open valve and allow tank to drain. Close valve and install plug. Remove fill cap and fill tank with oil. Replace cap and run compressor for 5 minutes. Stop engine and check oil level.
- 6. WATER SEPARATOR. To drain water, loosen drain screw through one or two turns. To replace filter element, remove drain hose and ARMY: To be distributed in accordance with DA mounting base. Remove bowl from old filter and clean bowl. Install bowl and new O-ring to bottom of new filter element. Apply film of oil to new filter gasket. Install new filter until gasket contacts base, then turn an additional 3/4 turn. Attach drain hose and air-vent system.

- 7. WHEEL BEARINGS. Clean, inspect and repack wheel bearings every six months. Raise and support tire securely off the ground. Remove tire and wheel assembly. Remove dust cap, cotter pin, nut, washer, and outer bearing. Remove brake drum. Use seal puller to remove grease seal. Remove inner bearing. Repack bearings using wheel bearing grease conforming to Specification MIL-G-10924. Install inner bearing and new grease seal. Place brake drum over spindle and install outer bearing, washer and nut. Tighten nut to specifications and install cotter pin. Replace dust cap and tire. Repeat procedure for remaining wheels.
- 8. BRAKE FLUID RESERVOIR. Fill to within 1/4 in of top opening with Silicon brake fluid conforming to MIL-B-46176.
- 9. OIL COOLER. To drain oil from cooler, open vent plug and remove drain plug.
- 10. HOSE REELS. Before lubrication, depressurize the entire air system with engine off. High pressure may be present on hose reel grease fittings.

Copy of this Lubrication Order will remain with the equipment at all times; instructions contained herein are mandatory.

By Order of the Secretaries of the Army and the Marine Corps:

> CARL E. VUONO General, United States Army Chief of Staff

R.L. DILWORTH Brigadier General, United States Army The Adjutant General

J.J. WENT Lieutenant General, USMC

Deputy Chief of Staff for Installations and Logistics

unscrew filter and bowl assembly. Clean Form 12-25A Operator, Unit and Direct and **General Support Maintenance requirements for** Compressor, Rotary Air, DED 250 CFM, 100 PSI,

> Trailer Mounted, Ingersoll-Rand MDL P250-W DM-H268.

USMC:AJG

PIN: 062197-000