

GTA# 43-01-083

**613B SCRAPER/WATER DISTRIBUTOR
COLD WEATHER/DESERT OPERATION**

This abbreviated checklist is not to be used as a replacement for the -10 Series Technical Manuals or any other PMCS guide.

References: FM 90-3, DESERT OPERATIONS; TM 5-3805-260-10/TM 5-3805-226-10; FM 9-207, OPERATIONS & MAINTENANCE of ORDINANCE MATERIAL in COLD WEATHER

1. Maintain proper TIRE PRESSURE. In general, tire pressure should be inflated **10PSI** over normal tire pressure during winter operations
2. **ETHER COLD STARTS** (For temps below 0°C / 32°F :) Inject ether **ONLY** while cranking the engine. (Use **sparingly** since excessive ether can cause piston and ring damage.)
3. **ANTIFREEZE:** Use **MI L-A-46153**, Antifreeze, Ethylene Glycol, Inhibited, Heavy Duty and follow the instructions for use in **TB-750-651, 'Use of Antifreeze Solutions and Cleaning Compounds in Engine Cooling Systems'**.

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4. If the machine is shipped to, or stored in an area with freezing temperatures, the cooling system must either be protected to the lowest expected temperature or drained completely. **(Check antifreeze in accordance with the procedures in TB-750-651.)**

5. **Premix antifreeze to provide protection to the lowest expected outside temperature. Mix antifreeze solution IAW TB 750-651.**

6. Measure the specific gravity of antifreeze solution frequently in cold weather to ensure adequate protection.

7. In cold weather operations, charge batteries IMMEDIATELY after adding water. Water must combine with the electrolyte by means of charging. Delay in charging could result in frozen batteries.

8. Use a non-freezing window washer solvent in freezing temperatures when required to fill windshield washer fluid reservoir.

**LUBRICANT CHART, Ref: TM 5-3825-260-10
SEE NEXT PAGE**

Lubricant Chart NOTES:

1. For equipment operation at temps above +5° multiviscosity oil OE/HDO 15W40 can be used in lieu of OE/HDO30
2. If OEA is required to meet the temperature ranges prescribed in the chart (Key), then the OEA lubricant is to be used in place of OE/HDO 10 lubricant for all temp ranges.
3. *See **TB 43-0002-87** for conversion procedures from HB to BFS.

LUBRICANTS	REFILL CAPACITY	EXPECTED TEMPERATURES			FOR	CHANGE INTERVALS
		>+15F >-10C	+40to -15F (+5 to -)	+40 to -45F (+5 to -55C)		
OE/HDO LUBRICATING OIL ICE TACTICAL (MIL-L-2104)	3 GAL (11.4 LTR.)	OH/HDO30	OE/HDO10 (see note 2)		ARCTIC OPERATION	250 HRS
OEA-LUBRICATING OIL ICE ARCTIC	3 GAL (11.4 LTR)			OEA		250 HRS
-TRANSMISSION -HYDRAULIC OIL	6.5 GAL (25 LTR)	OE/HDO10	OE/HDO10	OEA	REF TO FM 9-207	1,000 HRS
	25 GAL (91 LTR)	OE/HDO10	OE/HDO10	OEA		2,000 HRS
GO-LUBRICATING OIL GEAR, MULTI PURPOSE (MIL-L-2105)	AS REQUIRE D	GO 85-145	GO 80-90	GO 75		WHEN REQUIRED
GAA-GREASE AUTOMOTIVE & ARTILLERY (MIL-G-0924)	AS REQUIRE D	ALL TEMPERATURES				WHEN REQUIRED
BFS-BRAKE FLUID SILICONE, AUTOMOTIVE ALL WEATHER, OPERATION- AL & PRESERVATIVE (MIL-B-46176) (see note 3)	AS REQUIRE D	ALL TEMPERATURES				WHEN REQUIRED