

600 GPM DED PUMPS, MODEL US636HCCD-1,

NSN 4320-01-201-6937

HOT WEATHER/DESERT OPERATION

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

FM 90-3, DESERT OPERATIONS contains detailed instructions for living and working in the desert. The TM 10-4320-344-10, and LO 10-4320-344-12 contain detailed PMCS instructions for proper maintenance and operation.

NOTE: A very high standard of maintenance is essential to long term operation under conditions of extreme heat. High temperature can cause early failure of systems. Constant checking is necessary to prevent failures.

ENGINE OPERATION IN EXTREME

1. Inspect cooling fins and cooling coil for excessive dirt buildup and carefully clean as necessary.
2. Inspect cooling blower inlet often any obstructions
3. Inspect cooling blower v-belt often.
4. Keep engine oil fill cap tight and dipstick seated to prevent contamination.
5. Wipe spilled lubricants from assembly to avoid collecting dust and sand.
6. Use care when servicing fuel tank to prevent sand and dirt entering the fuel system. Keep fuel tank fill cap tight.
7. Check air filter and air filter service indicator often. Replace air filter elements as necessary.
8. Watch engine oil pressure gauge closely.
9. If any warning message or oil levels are ignored, damage may result.

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ENGINE OPERATION (continued)

10. Check oil levels frequently.
11. Follow proper engine cool down and shutdown procedures.
12. Run engine at idle for about 2 minutes before shutting down.
13. Idling will cool the engine faster than a quick shutdown and may prevent damage from remaining engine heat.
14. Check all hoses and fittings frequently to insure proper fit.
15. Start up pumps regularly to prevent discharge of batteries.

PUMP OPERATION IN EXTREME HEAT

If suction and/or discharge hoses are not connect to the pump, be sure that the suction and discharge port dust caps and plugs are securely installed in the ports.

BATTERY MAINTENANCE IN EXTREME HEAT

1. Battery specific gravity must be changed to adjust for heat.
2. Watch ELECTRICAL SYSTEM ammeter closely.
3. Keep batteries full, but do not overfill.

OTHER DESERT OPERATION PMCS

1. Reduce sand ingestion by stretching nylon stockings over air cleaners.
2. Use high-grade 20W-50 oil: it serves well under desert conditions.
3. Check lubrication orders and TM's for the correct viscosity of lubricants for higher temperatures.
4. Clean sand and dirt away from pump.