

CRANES

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 following is a general maintenance checklist that applies to various models of cranes that are being operated in hot weather desert environments. This is not to be construed as a substitute for the required equipment PMCS, but will compliment the PMCS requirement when temporary time constraints prevent a PMCS from being performed completely.

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.

1. Check all belts for proper tension.
2. Verify the radiator coolant level is correct, add coolant / DISTILLED water ONLY.
3. Ensure battery fluid levels are correct and vent caps are not obstructed.
4. Ensure major assembly fluid levels are correct to prevent heat build up.
5. Check all components for Class III leaks.
6. Clean A/C filters each day the equipment is operated.
7. Ensure radiator and oil cooler cooling fins are not obstructed.

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8. Check tire pressure accuracy to reduce tire wear and possible blowouts.
9. Inspect air induction system to ensure it is properly sealed.
10. Clean air filter and dust boot and ensure filter restriction gage is not red.
11. Fuel/water sediment bowl/filter drained first thing daily to remove condensation.
12. Keep oil spills/grease clean to prevent dirt build up and heat retention.
13. Clean all excess lubricant from crane cables and sheaves.
14. Cover windshields from blowing sand when equipment is not in use.
15. Clean and inspect all chrome hydraulic cylinder rods daily.
16. Do not fully fill the fuel tank, leave room for expansion.
17. Constantly monitor all gages and warning lights.
18. Keep the cab doors and windows closed even when the equipment is not used.