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130G GRADER 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

References: FM 90-3, DESERT OPERATIONS

TM 5-3805-261-10 (detailed PMCS instructions)

NOTE: Engine idling time must be limited. Under no condition should engine idling exceed a maximum of 10 minutes. Excessive idling can cause damage to engine. During very hot weather, altering operating procedures may be necessary to prevent machine from overheating. Avoid continuous high engine RPM.

EXTREME HEAT

- You must be alert for the possibility of overheating
- Keep a close eye on EMS engine coolant and hydraulic oil temperature indicators.
- If coolant or hydraulic temperature indicators come on, you
 may operate at three-fourths workload until indicators go out.
- It is important to maintain engine RPM to help cooling.
- If indicators stay on after more than ten minutes of reduced workload, stop the machine and notify Unit Maintenance.
- Check coolant level at frequent intervals and keep radiator cap tight.
- Be sure the radiator is free of bugs, dust and other foreign matter.
- Check fan belt tension frequently. Report any damaged or loose belts to Unit Maintenance.
- 9. Lubricate according to PMCS with the temperature range that applies to the highest expected temperature.

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- 10. Check and clean air precleaner at closer than normal intervals.
- 11. Check air cleaner indicator frequently. Notify Unit Maintenance if the red indicator locks in the visible position.
- Park machine under cover, if possible. Cover windshield (if equipped) to protect against sand blasting.
- 13. Ensure all tires are inflated to proper pressure.
- Check frequently for rust. Clean and lubricate machine to help prevent deterioration.

SANDY OR DUSTY CONDITIONS.

- Maintain steady, even movement with transmission in lower gears. Use differential lock as required. Try to keep machine rolling without straining engine and powertrain. If machine gets stuck, notify Unit Maintenance.
- 2. Service engine air cleaner more frequently.
- 3. Make sure each tire has a valve cap.
- If machine overheats, stop and perform troubleshooting procedures.
- Make sure engine oil filler tube and transmission fluid filler tube is cleaned before dipsticks are removed to check fluid levels. Clean accumulations of sand and dirt from around fluid filler locations before checking or adding fluids.
- Clean spouts of fuel containers and areas around filler caps on fuel tanks before adding fuel. Under extremely sandy or dusty
- 7. Conditions filter fuel when filling tanks.
- 8. Park machine under cover, if possible. Cover windshield (if equipped) to protect against sand blasting.
- Notify Unit Maintenance to clean, inspect and lubricate more frequently.
- When operating machine on soft sand at slow speeds, the tire inflation pressure may be decreased for improved traction.
 Refer to FM 21-305 (Manual for the Wheeled Vehicle Drivers).
- Check hydraulic cylinders, top of circle, center shift linkage and articulation cylinders frequently. Do not allow dust, dirt, or sand to collect in these areas.