



Tulsa Winch

Maintenance and Service

For safe and consistent operation of **TULSA WINCH** hoists, swing drives and winches a regular program of preventive maintenance is strongly recommended. Regular oil changes with the correct oil for the ambient temperature conditions and an annual inspection of the wear components will help insure long life for your planetary and worm geared products.

Oil changes

The oil in the gear section and the brake section should be changed every **1000 hrs** or **6 months** of usage.

Maintenance Scheduling

The owner is to ensure proper inspection intervals, in compliance with the API RP 2D Section 4 requirements or the ANSI B30.5, 5-2.3, and will review hoist usage categories on a periodic basis. A Qualified Inspector should perform all maintenance and inspections.

- For hoists in **infrequent** use, less than 10 hours per month, API RP 2D recommends a pre-use inspection and an annual 12-month inspection based on average use over a quarter.
- For hoists in **moderate** use, more than 10 but less than 50 hours per month, API RP 2D recommends a pre-use inspection, quarterly inspection, and an annual 12-month inspection based on average use over a quarter.
- For hoists in **heavy** use, more than 50 hours per month, API RP 2D recommends a pre-use inspection, monthly inspection, quarterly inspection, and an annual 12-month inspection.

Oil Level Maintenance

- Tulsa Winch recommends that the oil level in the gearbox and brake housing be checked and adjusted as part of the pre-use inspection. If the oil level drops frequently or oil leakage is detected during an inspection, maintenance should be performed to correct any problems.
- Gearbox oil level inspection is achieved by removing the oil level inspection plug and visually inspecting the oil level. Maximum oil level is to the bottom of the threads of the inspection hole. This procedure is explained, in detail, in your Tulsa Winch Service Manual. Use only the oil recommended in the Tulsa Winch Service Manual for your hoist type. See Fig. 1.1, Gearbox Oil Level Inspection.

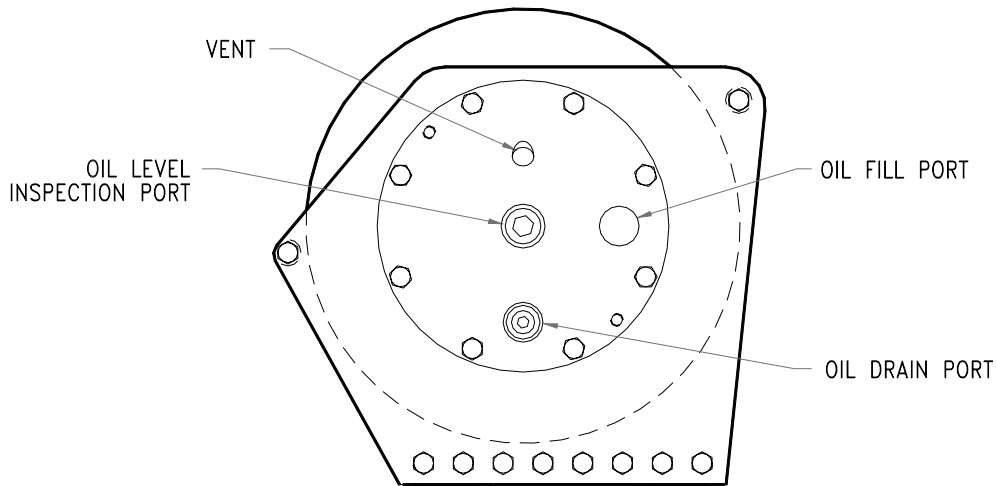


Figure 1.1, Gearbox Oil Level Inspection

- Brake Housing oil level inspection is achieved by removing the oil level inspection plug and visually inspecting the oil level. Maximum oil level is to the bottom of the threads of the inspection hole. This procedure is explained in detail in your Tulsa Winch Service Manual. Use only the oil recommended in the Tulsa Winch Service Manual for your hoist type. See Fig. 1.2, Brake Housing Oil Level Inspection.

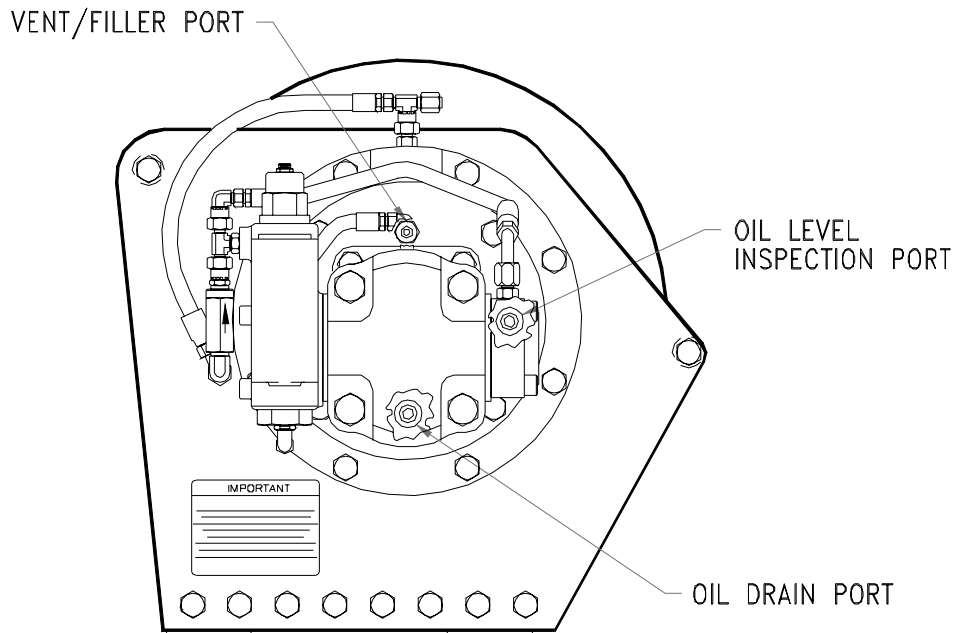
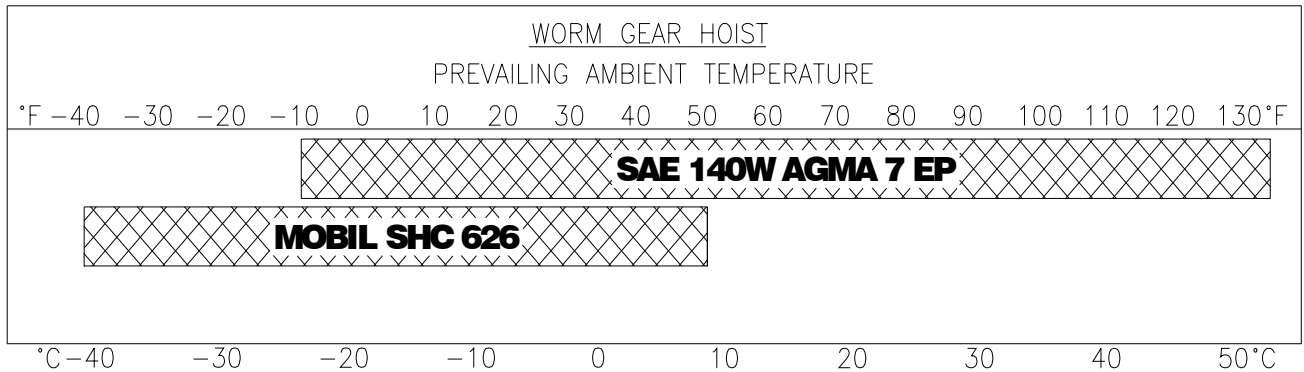
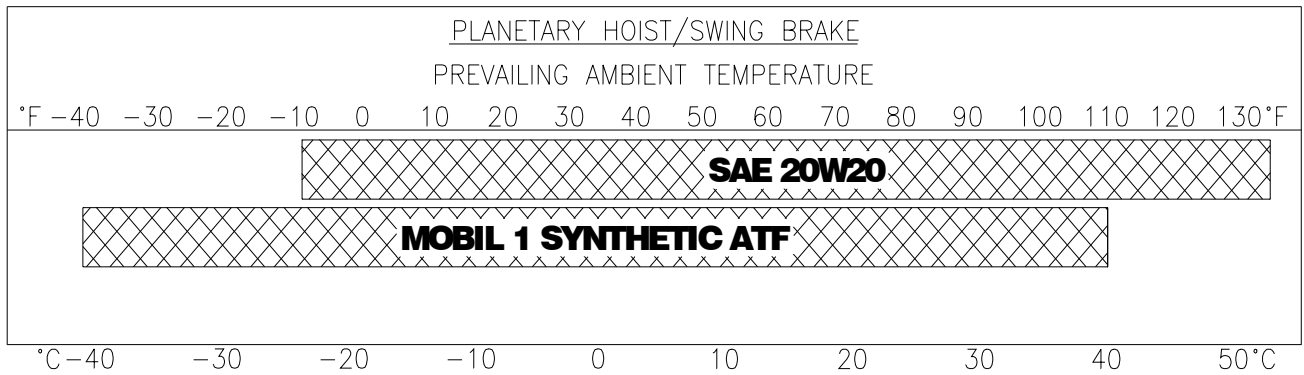
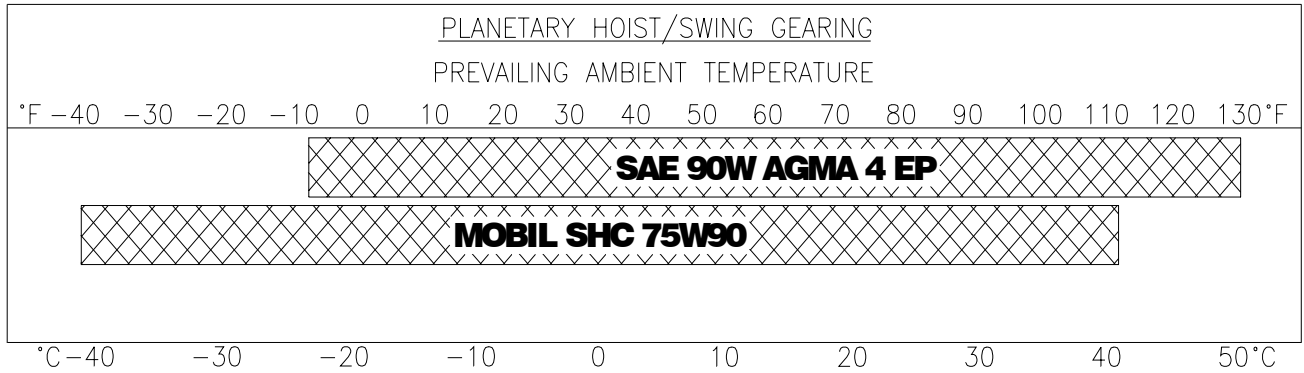


Figure 1.2, Brake Housing Oil Level Inspection

RECOMMENDED GEAR OIL



All oils must meet MIL-PRF2105E. Substitution from a reputable manufacturer is allowed as long as type and grade are maintained.