



AW-46 ANTI-WEAR HYDRAULIC OIL

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WARCO AW-46 Anti-Wear Hydraulic Oil is a premium quality general purpose anti-wear hydraulic fluid containing a zinc/phosphorous additive to minimize wear and provides superior thermal stability, anti-foam, rust, corrosion and oxidation protection in high-speed, high-pressure vane, gear, and piston pumps operating over a wide temperature range. It is formulated according to the ISO viscosity grade classifications to perform in extended service intervals to reduce downtime and increase time between equipment service. WARCO Anti-Wear Hydraulic Oil meets, exceeds, or match the performance specifications and complies with most industrial, marine and mobile applications where service requirements are normal to moderate and long-term, heavy-duty wear protection is not critical including: Cincinnati Fives P-68, P-69, P-70, Parker Hannifin HF-0, HF-1, HF-2, Vickers 35VQ25A, Eaton/Vickers M-2950-S, I-286-S, Ford M6C32, Chrysler, General Motors LS-2, DIN 51524 Part 1 and 2, ASTM D6158, ISO 11158 and US Steel 136 specifications for stability and durability.

Benefits and Applications

- Excellent thermal stability
- Special additives provide sludge and deposit control, and longer service life
- Excellent rust and corrosion protection for all system components
- Provide superior water separation and demulsibility
- Excellent anti-foam protection and rapid air release
- Provides anti-wear protection for pumps, motors, valves and other hydraulic circuit components operating under high pressures and loads

AW-46 Typical Characteristics

ISO GRADE		AW-46
Color		L 1.5
Specific Gravity @ 60°F	ASTM D287	.861
Flash Point, COC °C/°F	ASTM D92	210 / 410
Pour Point, °C/°F	ASTM D97	-42 / -43.6
Viscosity @ 40°C, cSt	ASTM D445	46.2 / 115.16
Viscosity @ 100°C, cSt	ASTM D445	9.3 / 48.70
Viscosity Index	ASTM D2270	180
CCS, mPa-sec °C max	ASTM D5293	-
Demulsibility	ASTM D1401	Pass

Test Method ASTM - Typical test data are average values only.
Minor variations, which do not affect performance, may occur.

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HANDLING AND SAFETY INFORMATION - Refer to WARCO (SDS) Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.