



Hydraulic ZF Arctic

Zinc-Free Multi-grade Hydraulic Fluid

Features & benefits

- Zinc-free formulation
- Low ash content
- Multi-grade
- Class L-HV / Designation HVLP
- Expanded operating temperature range
- Proven sludge and particulate control
- Exceptional wear protection
- Excellent separation from water



Specifications

✓ Meets requirements ■ Suitable for use

Specification	ZF Arctic
ASTM D6158 (HV)	✓
DIN 51524-3 (HVLP)	✓
ISO 11158 (ISO-L-HV)	✓
SAE MS 1004 (HV)	✓
Parker (Denison) HF-0, HF-1, HF-2	■

Typical results

Test Method	ZF Arctic
ISO GRADE	46
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	46.4 8.2
VISCOSITY INDEX (D2270)	152
ASTM COLOUR (D1500)	1.0
DENSITY @ 15°C (D4052), kg/L	0.86
POUR POINT (D97), °C	-48
FLASH POINT (D93), °C	217
OXIDATION LIFE (D943), hrs	10,000+
ZINC CONTENT (D4951), ppm	≤5
DEMULSE (D1401), Oil mL – water mL – emulsion mL (mins)	40/38/2 (20)
COPPER CORROSION (D130)	1b

Hydraulic ZF Arctic is a premium, high-performance, zinc-free, multi-grade hydraulic oil. The Hydraulic ZF Arctic additive system provides superior oxidation and stability control while protecting against wear, rust, and corrosion.

Hydraulic ZF Arctic's multi-grade nature allows for lower start-up temperature and higher operating temperatures than comparable monograde oils, enhancing productivity and operational flexibility. It is specially formulated to withstand the high-shear environment of hydraulic pumps and motors.

Hydraulic ZF Arctic performs better than traditional hydraulic additive packages in severe-duty and high-load applications. It was developed to provide a long service life while reducing environmental impact.

Hydraulic ZF Arctic is formulated with anti-wear additives to maximize equipment life and reduce maintenance costs. It has excellent water separation properties, allowing the water to separate from the fluid while maintaining its fluidity during service.

Sizes & order codes

Size	ZF Arctic
18.9 L (5 US gal)	F0135040

Always consult your owner's manual for verification of fluid type and grade!

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

Please note these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to Apr 10, 2026.

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