



Hydraulic Oil HDZ

Efficient performance heavy duty hydraulic fluid

Product description

Hydraulic Oil HDZ are a line of efficient performance heavy duty, zinc-based, multi-viscosity, anti-wear hydraulic oils. Hydraulic Oil HDZ is formulated with shear stable viscosity index (VI) improvers and is designed for use in a wide variety of ambient and operating temperatures.

Customer benefits

- Viscosity index (VI) improver additive offers a wide operating temperature window
- Anti-wear agents promote protection in vane, gear and axial piston pumps with bronze-on-steel or silver-plated components
- Rust and oxidation inhibitors help maintain reliable system protection
- Formulated to offer anti-foam performance with rapid air release and water separation characteristics
- Good filterability properties in the presence of water, meeting AFNOR NFE 48 DRY and WET filterability tests

Applications

- The Hydraulic Oil HDZ line is suitable for use in many types of hydraulic system, particularly those operating under severe conditions. The oils are recommended primarily for use in hydraulic systems that are subject to a wide variation in ambient and system operating temperatures. The multi-viscosity characteristics provide extended service life for high speed, high pressure hydraulic pumps

Product highlights

- **Wide operating temperature window**
- **Wear protection**
- **Rust and oxidation resistance**

Selected specification standards include:

ASTM D6158, HV	Bosch Rexroth
DIN 51524-3	Eaton Vickers
ISO 11158 L-HV	MAG Cincinnati, Cincinnati Machine
US Steel 127, 136	

Approvals, performance and recommendations

Performance

- DIN 51524-3
- ISO 11158 L-HV
- MAG Cincinnati, Cincinnati Machine P 68 (ISO 32), P 70 (ISO 46), P 69 (ISO 68)
- Eaton Vickers M-2950-S (Mobile applications)
I-286-S (Industrial application) (ISO 32, 46, 68)
- Bosch Rexroth (ISO 32, 46, 68)
- US Steel 127, 136
- ASTM D6158, HV

Typical test data					
Test	Test methods	Results			
Viscosity Grade		32	46	68	100
Kinematic viscosity, 40°C, mm ² /s	ASTM D445	32	46	68	100
Kinematic viscosity, 100°C, mm ² /s	ASTM D445	6.45	8.16	11.0	14.0
Viscosity Index	ASTM D2270	151	154	152	150
Flash Point COC, °C	ASTM D92	216	228	230	246
Pour Point, °C	ASTM D5950	-42	-42	-42	-42
Density at 15°C, kg/l	ASTM D4052	0.867	0.874	0.880	0.884
Copper corrosion (3 h, 100 °C)	ASTM D130	1A	1A	1A	1A
Foam Seq. II (after blowing), ml	ASTM D892	10	10	10	10
Foam Seq. II (after 10' standing), ml	ASTM D892	0	0	0	0

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheets.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

A Chevron company product