



# 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)
- Bosch Rexroth
- US Steel 127, 136
- ASTM D6158, HV

### Typical test data

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

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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