

Product Data Sheet

TomoilTM Hydraulic Oil HVLP 46

Hydraulic oil

Product description

TomoilTM Hydraulic Oil HVLP 46 is a superior performance hydraulic fluid crafted from highly purified raffinates of exceptional quality. Its primary function is to minimize wear and tear while ensuring exceptional protection and efficiency across a variety of mobile devices and scenarios, even in environments with diverse ambient or operational temperatures.

Application

- Industrial and mobile equipment hydraulic systems operating at high pressures and temperatures in critical applications
- Systems where cold start-up and high operating temperatures are typical
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Machines employing a wide range of components using various metallurgy

Features & Benefits

- Exceptional thermal and oxidation stability
- Superior wear resistance
- Enhanced corrosion protection
- Excellent anti-foam properties
- Ultra clean performance

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	46
Density at 15°C	g/cm ³	ASTM D4052	0.874
Kinematic Viscosity at 40°C	mm ² /s	ASTM D445	46
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	8.15
Viscosity Index	-	ASTM D2270	150
Flash Point (COC)	°C	ASTM D92	226

Pour Point	°C	ASTM D97	-33
Water separability	min	ASTM D7451	15
-time to 3 ml emulsion min	min	ASTM D7451	15
Oxidation Stability after 1000h/TAN increase	min	ASTM D4310	<1.0
Copper Strip Corrosion, 3 h, 100 °C	-	ASTM D130	1
Rust-Preventing Characteristics, A&B	-	ASTM D665	Pass
FZG EP Wear Test (A 8.3/90)	-	ASTM D 5182	12
Failure Load Stage	-	ASTM D 5182	12

Typical property characteristics are based on current production. Whilst future production will conform to TomoilTM specifications, variations in these characteristics may occur.

Performance claims

- DIN 51524-3 (HV)
- ISO 11158 (HV)
- Bosch Rexroth RDE 90235
- Denison HF-0/HF-1/HF-2
- Eaton E-FDGN-TB002-E
- Fives Cincinnati P70
- GB 11118.1-2011 (L-HV)
- ASTM D6158 (HV)
- GM LS 2
- AIST 126
- 127
- SAE MS 1004
- SEB 181222

Health, Safety & Environment

• Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: www.tomoil.de

• Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

Notes

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