

PRODUCT DATA SHEET



TIPP OIL Mineral Hydraulic HLP 46

TIPP OIL Manufacturer GmbH Co. KG

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Company registration number: HRA4299

VAT number: DE313987910

Revised on: 14.04.2025 | Number of the version: 01 | Replaces version: 01

Description of the

Tipp Oil Mineral Hydraulic HLP 46 is an optimally alloyed hydraulic oil. It has a high performance level and a wide range of applications throughout the industry. Mineral Hydraulic HLP 46 is characterised in particular by good viscosity-temperature behaviour, high ageing resistance and reliable corrosion protection.

Application notes

Tipp Oil Mineral Hydraulic HLP 46 is suitable for all hydraulic systems and can be used universally. The use of Mineral Hydraulic HLP 46 is particularly recommended for use in circulation systems, for supplying small gears, for thermally highly loaded hydraulic systems with high-pressure pumps of all types, in sensitive control systems and for hydraulic systems in agriculture.

Quality classification specifications:

- AFNOR NF E 48-603 HM
- ASTM D6158
- CETOP RP 91H HM
- DIN 51524-2
- GB 111118.1 L-HM (conventional)
- ISO 11158 HM
- ISO 6743-4 HM
- JCMAS HK
- MIL-PRF-17672 E
- NATO H-573
- SAE MS1004 HM
- SEB 181 222
- VDMA 24318

Recommendation:

- Arburg
- Atos
- Bosch Rexroth RE 90220
- Danieli Hydraulics
- Denison HF-0/HF-1/HF-2
- Eaton/Sperry Vickers I-286-S
- Eaton/Sperry Vickers M-2950-S
- Fives Cincinnati P-55/P-70
- GM LH-02-1-04, GM LS-2
- Metso

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- US Steel 126, US Steel 127, US Steel 136
- ZF TE-ML 07H
- Müller Weingarten
- Sauer-Danfoss 520L0463

Properties:

- High performance level
- High ageing resistance
- Reliable corrosion protection
- Very good viscosity-temperature behaviour
- Excellent wear protection
- Neutral towards sealing materials

Technical characteristics:

Eigenschaften	Daten	Einheit	Prüfung nach:
kinematic viscosity at 40°C	46,1	MM²/S	DIN ISO 51562-2
kinematic viscosity at 100°C	7,2	MM²/S	DIN ISO 51562-2
viscosity index	116		DIN ISO 2909
appearance	Yellowbrown		
visuell density at 15°C	864	KG/M³	DIN EN ISO 12185
Pour Point	-36	CELSIUS	ASTM D 7346

All data given are approximate values and are subject to the usual production fluctuations. To the best of our knowledge, all information corresponds to the current state of knowledge and our development. We reserve the right to make changes. All references to DIN standards are for product description purposes only and do not constitute a guarantee. In the event of problems, please request technical advice.

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