

PRODUCT CERTIFICATE



TIPP-OIL
HLPD 46

TIPP OIL Manufacturer GmbH Co. KG

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Company registration number: HRA4299
Sales tax identification number: DE331814405

Revised on: 14.03.2025 | Number of the version: 01 | Replaces version: 01

Description:

Tipp-Oil HLPD 46 is a detergent hydraulic oil and therefore has a high wetting and cleaning effect. It is designed on the basis of selected base oils with additives to prevent corrosion, wear and friction. HLPD 46 also contains dispersing and detergent agents that ensure clean hydraulics at all times.

These additives dissolve impurities, keep them in suspension and thus enable the cleaning of contaminated hydraulic systems. The functional elements of a hydraulic system thus remain free of deposits and adhesions. Penetrating quantities of water are emulsified and the trouble-free operation of the hydraulic system is guaranteed.

Instructions for use:

Tipp-Oil HLPD 46 is used in hydraulic systems, in agriculture, construction machinery, cement factories, foundries, electric multi-plate clutches, as a functional test oil, as a running-in oil for units and machines, in textile machines and in machine tools. HLPD 46 exceeds the requirements for hydraulic oils HLP according to DIN 51 524 Part 2 for hydraulic systems.

Specification:

- DIN 51524-2

Recommendation:

- Daimler Chrysler DBL 6721

Features & Benefits:

- High ageing resistance
- Good air separation capacity
- Very stable and excellent viscosity and temperature behaviour
- temperature behaviour
- Excellent corrosion protection even when absorbing moisture
- Extensive protection against wear, corrosion and foaming
- Neutrality towards sealing materials
- Excellent detergent and dispersant properties
- Ash and zinc-free

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Technical specifications:

| Properties | Data | Unit | Testing under |
|------------------------------|--------|--------------------|------------------|
| kinematic viscosity at 40°C | 46,0 | MM ² /S | DIN ISO 51562-2 |
| kinematic viscosity at 100°C | 7,2 | MM ² /S | DIN ISO 51562-2 |
| viscosity index | 115 | | DIN ISO 2909 |
| appearance | Yellow | | VISUELL |
| density at 15°C | 861 | KG/M ³ | DIN EN ISO 12185 |
| Pour Point | -30 | °C | ASTM D 7346 |

All declared values are approximate and subject to standard production variations. To the best of our knowledge all information reflects the current state of findings and our development.

Subject to change. Any reference to DIN standards are solely for product description purposes and do not represent a guarantee. If problems arise, please consult a technician. 26.07.2024 02:00:00