

# PRODUCT CERTIFICATE



**TIPP OIL Manufacturer GmbH Co. KG**

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Company registration number: HRA4299  
Sales tax identification number: DE331814405

Revised on: 20.03.2025 | Number of the version: 01 | Replaces version: 01

## TIPP-OIL Hydraulic HVLP 46

### Description:

Tipp-Oil Hydraulic HVLP 46 is a multigrade hydraulic oil developed on the basis of specially selected base oils. Thanks to effective additives, Hydraulic HVLP 46 offers a high level of wear protection, even under extreme loads. Hydraulic HVLP 46 is characterised in particular by good viscosity-temperature behaviour, high ageing resistance and reliable corrosion protection.

### Instructions for use:

Tipp-Oil Hydraulic HVLP 46 is particularly suitable for use in hydraulic systems with highly fluctuating operating temperatures. Hydraulic HVLP 46 is ideally suited for heavy-duty hydraulic systems, earth-moving machinery and agricultural machinery. It is favoured for highly fluctuating operating temperatures and must not be used in hydraulic systems containing silver or silver-plated components and operating elements.

### Specification:

- AFNOR NF E 48-603 HV
- AFNOR NF E 48-690/1
- CETOP RP 91H HV
- DIN 51524-3
- GB 111118.1 L-HV
- ISO 11158 HV
- ISO 6743-4 HV
- JCMAS HK VG32W
- SAE MS1004

### Recommendation:

- Bosch Rexroth RE 90220
- Denison HF-0/HF-1/HF-2
- Eaton/Sperry Vickers I-286-S
- Eaton/Sperry Vickers M-2950-S
- Fives Cincinnati P-68
- GM LH-03-1-04, GM LS-2
- Sauer-Danfoss 520L0463
- US Steel 127, US Steel 136

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### Features & Benefits:

- Reliable protection against corrosion
- Excellent wear protection
- Good oxidation stability
- Very low pour point
- Stable viscosity index
- Good air and water separation capacity, thus preventing foam formation
- Neutral towards seals made of plastics

### Technical specifications:

Properties	Data	Unit	Testing under
kinematic viscosity at 40°C	46,6	MM <sup>2</sup> /S	DIN ISO 51562-2
kinematic viscosity at 100°C	8,0	MM <sup>2</sup> /S	DIN ISO 51562-2
viscosity index	145		DIN ISO 2909
appearance	Yellow		VISUELL
density at 15°C	858	KG/M <sup>3</sup>	DIN EN ISO 12185
Pour Point	-39	°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