



IPT International Petroleum Trading LTD  
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25335 Elmshorn  
Company registration number: HRB 13315 PI  
Sales tax identification number: DE313987910  
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product certificate TIPP-OIL Mineral Hydraulic HLP 32

#### Description of the

TIPP-OIL Mineral Hydraulic HLP 32 is a mineral oil based hydraulic fluid with highly effective additives. It is optimally alloyed, has a high performance level and a wide range of applications within the entire industry. Mineral Hydraulic HLP 32 offers high wear protection even under extreme loads due to effective additives. Mineral Hydraulic HLP 32 is characterized by good viscosity and temperature behaviour, high ageing resistance and reliable corrosion protection.

#### Application note:

Mineral Hydraulic HLP 32 is universally applicable in all hydraulic systems. It is recommended for thermally highly stressed hydraulic systems with high-pressure pumps of all types, in sensitive control systems and also for supplying small gears and for use in circulation systems.

#### Specifications:

AFNOR NF E 48-603 HM, ASTM D6158, DIN 51524 Part 2, GB 111118.1 L-HM (conventional), ISO 11158 HM, ISO 6743-4 HM, JCMAS HK, SAE MS1004 HM, SEB 181 222, US Steel 127/136, VDMA 24318

#### Tried and tested in practice in units with filling regulations:

Bosch Rexroth RD 90220, CETOP RP 91H HM, Denison HF-0/HF-1/HF-2, Eaton Vickers I-286-S/M-2950-S, Fives Cincinnati P-38/P-68, GM LH-03-1-04/LS-2, Sauer-Danfoss 520L0463, Voith Turbo (HLP 32)



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Properties:

Reliable protection against corrosion

Excellent wear protection

Very good oxidation stability

High ageing resistance

Neutral to sealing materials

Properties Data Unit Test according to

Kinematic Viscosity at 40°C 32.2 MM<sup>2</sup>/S DIN ISO 51562-2

Kinematic Viscosity at 100°C 5.77 MM<sup>2</sup>/S DIN ISO 51562-2

Viscosity Index 121 DIN ISO 2909

Colour YellowBrown visual

Density at 15°C 852 KG/M<sup>3</sup> DIN EN ISO 12185

Pourpoint -30 °C ASTM D 7346

All data given are approximate values and are subject to the usual production fluctuations.

To the best of our knowledge, all data correspond 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 any problems, request technical advice.



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