



IPT International Petroleum Trading LTD  
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25335 Elmshorn  
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product certificate TIPP-OIL HLP AF 32

#### Description of the

TIPP-OIL HLP AF 32 is an optimally alloyed ash-free hydraulic oil. It has a high performance level and a wide range of applications throughout the industry. HLP AF 32 is particularly characterised by good viscosity and temperature behaviour, high ageing resistance and reliable corrosion protection.

#### Application note:

HLP AF 32 is suitable for all hydraulic systems and can be used universally. The use of HLP AF 32 is recommended especially for use in circulation systems, for the supply of 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.

#### Specifications

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

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

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, Müller Weingarten, Thyssen TH-N256-142



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Properties:

High performance level

Very good viscosity-temperature behaviour

High ageing resistance

Excellent wear protection

Reliable corrosion protection - Neutral towards sealing materials

Excellent high pressure properties

Soluble in PAO

Good demulsifying capacity

Good air separation capacity

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 5.81 MM<sup>2</sup>/S DIN ISO 51562-2

Viscosity Index 124 DIN ISO 2909

Colour Yellow visual

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

Pourpoint -33 °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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