



IPT International Petroleum Trading LTD  
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25335 Elmshorn  
Company registration number: HRB 13315 PI  
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product certificate TIPP-OIL HLPD 32

#### Description of the

TIPP-OIL HLPD 32 is a detergent hydraulic oil and therefore has a great wetting and cleaning effect. HLPD 32 is designed on the basis of selected base oils with additives to prevent corrosion, wear and friction. HLPD 32 also contains dispersing and detergent agents which ensure a clean hydraulic system at all times. These additives dissolve impurities, keep them suspended and thus enable the cleaning of dirty hydraulic systems. The functional elements of a hydraulic system thus remain free of deposits and adhesions. Penetrating water quantities are emulsified and a trouble-free operation of the hydraulic system is guaranteed.

#### Application note:

HLPD 32 is used in hydraulics, in agriculture, construction machinery, cement factories, foundries, electric multi-plate clutches, as functional test oil, as running-in oil for aggregates and machines, in textile machines and in machine tools. HLPD 32 exceeds the requirements for hydraulic oils HLP according to DIN 51 524 part 2 for hydraulics.

#### Specifications

\*except demulsifying capacity, AFNOR NF E 48-603 HM\*, ASTM D6158\*, DIN 51524 Part 2 HM\*, 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:

Daimler Chrysler DBL 6721, MAN N 698, Müller Weingarten



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Properties:

High ageing resistance

Extensive protection against wear, corrosion and foam formation

Good air separation capacity

Neutrality towards sealing materials

Very stable and excellent viscosity and temperature behaviour

Exceptionally good detergent and dispersant properties

Excellent corrosion protection even when absorbing moisture

Ash and zinc free

Properties Data Unit Test according to

Kinematic Viscosity at 40°C 32,1 MM<sup>2</sup>/S DIN ISO 51562-2

Kinematic Viscosity at 100°C 5.76 MM<sup>2</sup>/S DIN ISO 51562-2

Viscosity Index 122 DIN ISO 2909

Colour Yellow visual

Density at 15°C 853 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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