

**Motorenöle**

*Motor oils*

**Getriebeöle**

*Gear oils*

**Zweitaktöle und  
Traktorenöle**

*Two-stroke oils and  
tractor oils*

**Hydrauliköle**

*Hydraulic oils*

**Industrie- und  
Spezialschmierstoffe**

*Industrial and  
specialty lubricants*

## PENNASOL HYDRAULIC OIL HLPD

PENNASOL HYDRAULIC OIL HLPD is based on paraffinic base oil and modern additive technology. Effective zinc containing components guarantee optimal lubrication and long term protection against oxidation. During the process fine filtration is possible without the risk of losing valuable ingredients. Because of the high viscosity index the lubricating effect of the oil remains unaffected even at very high temperatures.

Dispersant and detergent additives provide optimal dirt-removing properties and the product is especially suitable for centrally supplied machines.

### Specification:

- DIN 51524 part 2 (without demulsification requirements)
- FZG-Test A8,3/90 load stage: >12

Parameter	Unit	Testing method	PENNASOL HYDRAULIC OIL HLPD		
			ISO VG 22	ISO VG 32	ISO VG 46
Density 15°C	kg/m <sup>3</sup>	DIN EN ISO 12185	855	859	866
Flash point COC	°C	DIN ISO 2592	200	220	230
Pour point	°C	DIN ISO 3016	-30	-27	-27
Viscosity 40°C	mm <sup>2</sup> /s	DIN 51562-1	22,4	31,5	44,8
Viscosity 100°C	mm <sup>2</sup> /s	DIN 51562-1	4,5	5,6	6,8
VI		DIN ISO 2909	111	114	113

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