

**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 HLP

PENNASOL HYDRAULIC OIL HLP 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.

### Specification:

- DIN 51524 part 2
- FZG-Test A8,3/90 load stage: 12

### Recommendations:

ISO 11158	AIST 126 + 127
ASTM D6158	SAE MS 1004
JCMAS P041 HK	GM LS 2
SEB 181 222	

Parameter	Unit	Testing method	PENNASOL HYDRAULIC OIL HLP		
			ISO VG 22	ISO VG 32	ISO VG 46
Density 15°C	kg/m <sup>3</sup>	DIN EN ISO 12185	855	858	864
Flash point COC	°C	DIN ISO 2592	210	230	240
Pour point	°C	DIN ISO 3016	-30	-27	-30
Viscosity 40°C	mm <sup>2</sup> /s	DIN 51562-1	22,4	31,4	45,0
Viscosity 100°C	mm <sup>2</sup> /s	DIN 51562-1	4,5	5,6	7,0
VI		DIN ISO 2909	111	114	116

12/2017

Version 5

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