

**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 HVLP

PENNASOL HYDRAULIC OIL HVLP 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. High shear stability represents permanent optimal viscosity at low temperatures as well as at high operating temperatures.

### Specification:

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

### Recommendations:

High shear stability (viscosity drop 20h KRL: < 20%)	
ISO 11158	AIST 126 + 127
ASTM D6158	SAE MS 1004
JCMAS P041 HK	GM LS 2

Parameter	Unit	Testing method	PENNASOL HYDRAULIC OIL HVLP		
			ISO VG 22	ISO VG 32	ISO VG 46
Density 15°C	kg/m <sup>3</sup>	DIN EN ISO 12185	855	857	862
Flash point COC	°C	DIN ISO 2592	210	210	220
Pour point	°C	DIN ISO 3016	-45	-42	-39
Viscosity 40°C	mm <sup>2</sup> /s	DIN 51562-1	22,4	31,5	43,1
Viscosity 100°C	mm <sup>2</sup> /s	DIN 51562-1	4,8	6,3	7,9
VI		DIN ISO 2909	145	152	155

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