

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 S/P-L

PENNASOL HYDRAULIC OIL HLP S/P-L is based on paraffinic base oil and modern additive technology. Effective zinc and ash free 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
- DIN 51517
- FZG-Test A8,3/90 load stage: 13

Recommendations:

| | |
|----------------|----------------------------|
| ISO 11158 | SIS SS 155434 |
| AIST 127 + 136 | Denison HF-0 |
| SEB 181 222 | Ortlinghaus-Norm ON 9.2.19 |

| Parameter | Unit | Testing method | PENNASOL HYDRAULIC OIL HLP S/P-L | | |
|-----------------|--------------------|------------------|-------------------------------------|-----------|-----------|
| | | | ISO VG 22 | ISO VG 32 | ISO VG 46 |
| Density 15°C | kg/m ³ | DIN EN ISO 12185 | 855 | 859 | 865 |
| Flash point COC | °C | DIN ISO 2592 | 220 | 220 | 230 |
| Pour point | °C | DIN ISO 3016 | -30 | -27 | -24 |
| Viscosity 40°C | mm ² /s | DIN 51562-1 | 22,4 | 31,2 | 43,9 |
| Viscosity 100°C | mm ² /s | DIN 51562-1 | 4,4 | 5,5 | 7,0 |
| VI | | DIN ISO 2909 | 110 | 113 | 112 |

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