

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

Parameter	Unit	Testing method	PENNASOL HYDRAULIC OIL HLP		
			ISO VG 22	ISO VG 32	ISO VG 46
Density 15°C	kg/m ³	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 ² /s	DIN 51562-1	22,4	31,4	45,0
Viscosity 100°C	mm ² /s	DIN 51562-1	4,5	5,6	7,0
VI		DIN ISO 2909	111	114	116

12/2017

Version 4

1

¹ This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AVISTA OIL Group or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale.