

DESCRIPTION

emka®

Quality engineered in Germany

Hydrostar HLP-Series

High-Performance Hydraulikfluid



1. APPLICATION

The oils of the Hydrostar HLP series are high-quality hydraulic oils made from solvent-refined base oils with a high natural viscosity index and effective additives. The excellent air and water drainage separating power, which largely excludes the formation of foam and the excellent wear resistance and corrosion protection characterize these oils. For use in modern hydraulic systems within the entire industry, for all lifting devices in commercial vehicles and devices, hydraulic controllers and torque converters and for all hydraulic systems in which hydraulic fluids are classified according to HLP prescribed are ideally suited. Due to its excellent antiwear properties, it also can be used as lubricating oil for spur gears or as circulating lubricating oil for plain and roller bearings.

The viscosity specifications of the machine manufacturer must be observed.

2. YOUR BENEFIT

- They are in the 12th power level in the FZG test.
- Very good filterability and very long oil service life.
- High resistance to aging and excellent protection against corrosion.
- Outstanding air and water separation properties, very good viscosity-temperature behavior.

3. TECHNICAL SPEZIFICATIONS

Can be used with:

**DIN 51524 Teil 2 Typ HLP; ISO 11158 HM;
ASTM D6158 HM; VDMA 24318-HLP;
Bosch Rexroth RE 90220; Eaton E-FDGN-TB002-E; Eickhoff;
Fives Cincinnati P-70; FZG Test A/8.3/90: Load Stage 12;
JCMAS HK; Komatsu HPV35+35 Pumpentest; PALFINGER;
Parker Denison HF-0; Voith 3625-006208/006209; GM LS 2;
Demag; Dynex; Engel; Husky; Hydreco; Krauss-Maffei; Netstal;
Oilgear; Racine; Raymond Gabelstapler und Hubwagen;
Sauer-Danfoss; Soplax; US Steel 127/136; AIST 126/127;**



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4. TECHNICAL CHARACTERISTICS

Properties	Units	HLP 10	HLP 22	HLP 32	Test
Density at 15°C	Kg/m ³	835	855	858	DIN EN ISO 12185
Kin. Viscosity at 40°C	mm ² /s	9,7	22,4	31,4	DIN 51562-1
Kin. Viscosity at 100°C	mm ² /s	2,7	4,5	5,2	DIN 51562-1
Viscosity Index		98	111	114	DIN ISO 2909
Flashpoint	°C	170	210	230	DIN ISO 2592
Pourpoint	°C	-33	-30	-30	DIN ISO 3016
FGZ-Test A8,3/90		12	12	12	DIN ISO 14635-1

Properties	Units	HLP 46	HLP 68	HLP 100	HLP 150	Test
Density at 15°C	Kg/m ³	864	873	878	885	DIN EN ISO 12185
Kin. Viscosity at 40°C	mm ² /s	45,0	66,7	98,9	150,3	DIN 51562-1
Kin. Viscosity at 100°C	mm ² /s	6,8	9,0	11,7	14,6	DIN 51562-1
Viscosity Index		116	109	105	96	DIN ISO 2909
Flashpoint	°C	240	240	240	240	DIN ISO 2592
Pourpoint	°C	-27	-21	-24	-15	DIN ISO 3016
FGZ-Test A8,3/90		12	12	12	12	DIN ISO 14635-1

5. PACKAGING

CONTENTS

Tankware
205 Liter

CONTENTS

60 Liter
20 Liter

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