



LUBINOL

HYDRAULIC HLP

HLP - Hydraulic Oil meeting
DIN 51524, Part 2

Product Description

Lubinol Hydraulic hydraulic oils are produced from high quality mineral base stocks. These combined with new generation additives create product properties, which meet and even exceed the requirements of DIN 51 524 part 2.

Especially to be highlighted are:

- fast demulsifying power
- good air release and excellent foaming tendency
- extreme pressure stability and very good wear protection
- excellent thermal and oxidation stability
- secured protection against corrosion
- good compatibility with material coatings and elastomers
- trouble-free filterability

Application

Lubinol Hydraulic HLP: oils are used in steady state and in mobile hydraulic units like construction machines or -vehicles and in machine tools or presses. Furthermore they may be used for the lubrication of slightly loaded roller and slide bearings and for gears, if this is accepted by the constructor of these aggregates.

Qualification

DIN 51 524-2 (HM)	GM LS-2
AIST 126	ISO 11158 (HM)
ASTM D 6158 (HM)	JCMAS P041 HK Hydraulic specification
Bosch Rexroth RDE 90235	Parker (Denison) HF-0, HF-1, HF-2 (HM)
Eaton E-FDGN-TBoo2-E	SAE MS 1004 (HM)
Fives P68, P69, P70 (HM)	SEB 181222
GB 111158.1-2011 (L-HL, L.HM)	

Nominal Values

LUBINOL HYDRAULIC HLP	Unit	Unit					Method
ISO-VG class		22	32	46	68	100	DIN 51 519
Density at 15°C	kg/m ³	844	853	864	880	888	DIN 51 757
Kinematic viscosity at 40°C		22,8	33,5	45,6	67,4	99	DIN 51 562
Kinematic viscosity at 40°C	mm ² /s	4,3	5,9	6,9	8,5	11,2	DIN 51 562
Viscosity index	mm ² /s	100	119	109	9,6	98	DIN ISO 2909
Pour point	°C	-33	-36	-36	-36	-30	DIN ISO 3016
Flash point	°C	210	230	236	238	242	DIN ISO 2592
Air release at 50°C	minutes	3	4	5	8	11	DIN 51 381

Water content	wt. %		DIN 51 777 T.1
FZG-test (A/8,3/90/20) damage loading step	-	≥ 12	DIN 51 354 T. 2

Specification variations in these characteristics may occur the instructions of manufacturer must be regarded. Further informations to be available by MSDS.