

Mabanol Helium Hyd HLP-D ZF

Detergent Hydraulic Fluids – zinc free

Application

Mabanol Helium Hyd HLP-D hydraulic oils are suitable for use in all hydraulic systems for which normal HLP fluids are recommended. Due to excellent operational results, these oils are particularly advised for application in all mobile hydraulic units (excavators, bulldozers, wheel loaders, truck hydraulic systems and especially for use in F.X. Meiller). In actual use, Mabanol Helium Hyd HLP-D has a proven history in hydraulic control units and precision hydraulic systems. Mabanol Helium Hyd HLP-D hydraulic oils are also particularly well suited for use in the hydraulic systems of machine tools with integrated slide way lubrication, and maintenance units on compressed air devices used in lubricating compressed air machinery. Common operating problems in hydraulic systems caused by contamination and wear can be largely eliminated by using Mabanol Helium Hyd HLP-D.

These fluids are also suitable where lead alloys are used.

Properties

Mabanol Helium Hyd HLP-D hydraulic fluids are mineral oil based detergent and dispersant hydraulic fluids. This means that adhering particles and deposits are dissolved (with detergent) and held in suspension (dispersant) along with any contaminants which may have entered the system. Mabanol Helium Hyd HLP-D emulsifies in water and water mixed cooling lubricants without any substantial sacrifice of its excellent lubrication and anticorrosion properties. Polar additives in Mabanol Helium Hyd HLP-D improve glide behaviour and prevent any stick or slip behaviour even when operating under extremely difficult conditions including the critical start-up and shut down phases, as well as minimal advance rates at slow speeds under high loads.

Mabanol Helium Hyd HLP-D fluids exceed the requirements for HLP hydraulic fluids described in DIN 51 524 Part 2, in a number of important points. The filterability test Abex Denison TP-02/100 is fulfilled.

Standards

- HLP according to DIN 51524 Part 2
- HM according to ISO 11158

Data

HLP-D Classification

	Test method	Unit	22	32	46	68
Density at 15°C	DIN 51 757	g/cm ³	0,865	0,873	0,880	0,882
Kin. Viscosity at 40°C	DIN EN ISO 3104	mm ² /s	22	32	45	68
Kin. Viscosity at 100°C	DIN EN ISO 3104	mm ² /s	4,3	5,4	6,7	8,6
Flash point COC	DIN ISO 2592	°C	195	205	210	225
Pourpoint	DIN ISO 3016	°C	-30	-27	-27	-24
FZG test A/8, 3/90	DIN ISO 14635	SKS	> 12	> 12	> 12	> 12
Load capacity Brugger	DIN 51 347	N/mm ²	37	44	44	47

Updated in October 2018

The above values may vary within the commercial limits.

Customs Tariff No.: 2710 1983