

Hydraulic oil

HYDRAX HLP

Hydraulic oils HYDRAX HLP are designed for use in heavy duty power transmission systems and hydraulic control systems.

HYDRAX HLP oils are formulated on the base of deeply refined, dewaxed and hydrorefined mineral oils received from crude oil straight-run distillation. The oils contain a properly selected package of anticorrosion, antioxidation and lubrication additives as well as demulsifying and antifoam attributes.

Hydraulic oils HYDRAX HLP are applied in heavy duty power transmission systems and hydraulic control systems.

Characteristics:

The oils formula guarantees:

- optimum protection of the lubricated elements surface,
- high antifoam properties,
- good air release,
- excellent demulsifying properties,
- hydrolytic stability,
- high filterability,
- cleanness of the lubrication system,
- anti-wear protection and a long life of the lubrication system elements.

The oils are designed for:

- hydraulic power transmission systems,
- hydraulic gears,
- control gears,
- gear pumps – pressure up to 25 MPa
- piston pumps – pressure up to 35 MPa

№.	Requirements	Research methods by	Unit	Value				
				32	46	68	100	150
1.	Kinematic viscosity at 40°C	ASTM D-445	mm ² /s	32	46	68	100	148
2.	Pour point	ASTM D-5950	°C	-30	-33	-27	-25	-21
3.	Flash point	PN-EN ISO 2592	°C	215	230	236	245	248
4.	Demulsifying properties	PN-86/C-04065	min	20	20	20	25	25
5.	Viscosity index	ASTM D-2270		99	97	97	95	95
6.	Filterability: - oil without water	PN-90/C-04188	s	180	180			

The above given data are values received at normal tolerance of production batch, they are not included in technical specification and they can undergo changes for constant development of the product.

Application Recommendations:

Hydraulic oils HYDRAX HLP can be applied in hydraulic systems where the oils with upgrade high anti-wear properties are required. Hydrax HLP oils meet the requirements of ISO L-HM for hydraulic oils and can be used wherever the OEM recommends L-HM class. Hydrax HLP can also be applied in underground excavations of mining plants and in other difficult operating conditions along with high temperatures and humidity.

Specifications/ classifications:

ISO VG 32-150

DIN HLP (DIN 51524 cz2)

ISO-L-HM

Approvals:

Approved by GIG for use in underground mining.

Packaging:

180kg, 1 tonne

Storage:

The products should be stored under a roof. If they are stored in the open air where they can be exposed to atmospheric conditions – rains, they should be placed in a horizontal position in order to avoid inrush of water to a container and to prevent label damaging; they should be covered with tarpaulin.

The products should not be stored at the temperature above 60°C and in the places where solar radiation is very strong or – temperatures very low. The expiry date is 3 years if the storage conditions are satisfied.

Health, industrial safety and the environment:

Information concerning safety is included in the product Safety Sheet. It contains detailed information on possible threats, warnings, first aid as well as the impact on the environment and ways of utilization of the used products. LOTOS Oil S.A. and the cooperating companies do not take responsibility for misuse of the product or – the use with the violation of the precautions given. Before using the product for other than recommended purposes, seek advice in the local LOTOS Oil S.A. office.

The information provided in this data sheet is not intended to constitute an offer within the meaning of the Act of 23rd April 1964 - Civil Code. LOTOS Oil S.A. bears no responsibility for whatever effects of use (particularly in trade and investment decision-making) of information contained herein. Any data contained in the MSDS are typical process tolerance values and they are subject to change due to continual product research and development. Information provided in this document may undergo changes. LOTOS Oil S.A. is not responsible for the product availability.

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