

Hydraulic oil

HYDRAULIC OILS L-HM

Hydraulic oils L-HM are high quality multipurpose oils designed for use in hydraulic power transmission systems and control systems, where excellent anti-wear qualities are required. The 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 set of anticorrosion, anti-oxidation and lubrication additives as well as demulsifying and antifoam attributes.

They can be used in underground mining machines (the oils have been approved by the State Mining Authority). They have been approved for use in the hydraulics of the working system of Dresta K-34 and K-35 loading machines produced by Stalowa Wola Steelworks. Hydraulic oils L-HM are applied in heavy loaded 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 qualities,
- 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 and control systems,
- circulation systems.

Nº	Requirements	Research	Unit						
		methods		32	46	68	80	100	150
		by							
1.	Kinematic viscosity at 40°C	ASTM D- 445	mm²/s	32	46	68	80	100	150
2.	Pour point	ASTM D- 5950	°C	-36	-33	-30	-27	-24	-18
3.	Flash-point	PN-EN ISO 2592	°C	220	224	250	258	240	272
4.	Demulsifying properties	PN-86/C- 04065	min	15	15	15	15	15	20
5.	Viscosity index	ASTM D- 2270		100	104	99	97	97	95



6	. Filterability:	PN-90/C-	S	100	100		
	- oil without	04188					
	water						

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 L-HM can be applied in hydraulic systems where the oils with upgraded high anti-wear properties are required. They can also be used in hydraulic systems of construction and mining machines.

Specifications, classifications:

ISO VG 15-150 ISO-L-HM, DIN HLP (DIN 51524cz2), Dresta K-34, K-35 produced by HSW.

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 not less than 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.

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