

Hydraulic oils

HYDROMIL SUPER L-HM

Hydraulic oils Hydromil Super L-HM 15-150 are designed for application in heavy loaded drive and hydraulic control systems. Hydromil L-HM are formulated on the base of deeply refined, dewaxed and hydrorefined mineral oils received from crude oil refining. The oils contain a properly selected package of zinc-free anticorrosion, anti-oxidation and lubrication additives as well as de-emulsifying and antifoam attributes.

Hydraulic oils Hydromil Super L-HM are applied in heavy loaded power transmission systems as well as drive and hydraulic control systems.

Characteristics:

The oils formula guarantees:

- optimum protection of the lubricated elements surface,
- high antifoam properties,
- good air release,
- excellent de-emulsifying qualities,
- unique 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 drive and control systems,
- gears, hydraulic transmissions,
- control gears,
- gear pumps up to 25MPa,
- piston pumps up to 35MPa.

Hydromil Super L-HM oils are divided into the following viscosity classes ISO VG 15; 22; 32; 46; 68; 100; 150.

№	Requirements	Research methods by	Unit	Value						
				Hydromil Super L-HM						
				15	22	32	46	68	100	150
1.	Kinematic viscosity at 40°C	ASTM D-445	mm ² /s	15	22	32	46	68	100	150
2.	Pour point	ASTM D-5950	°C	-45	-35	-30	-30	-27	-24	-15
3.	Air release ability at 50°C	PN-85/C0405 5	min	<5	<5	<5	<7	<10	<21	<32
4.	De-emulsifying properties	PN-86/C-04065 ASTM D1401	min	<20	<20	<20	<30	<30	<30	<30

5.	Viscosity index	ASTM D-2270		108	107	105	100	100	96	95
6.	Filterability: - oil without water	PN-90/C-04188 ASTM D2276	s	40	60	70	90	160	200	300

The above given data are typical values for a production batch, they are not included in the technical specification, and they are subject to change due to continual product research and development.

Application Recommendations:

Hydraulic oils Hydromil Super L-HM can be applied in hydraulic systems requiring oils of improved hydrolytic stability and high anti-wear qualities according to their viscosity classes. Hydromil Super L-HM meet the quality requirements for hydraulic oils according to ISO L-HM and can be used everywhere the OEM recommends L-HM class.

Specifications, classifications:

ISO VG 15; 22; 32; 46; 68; 100; 150

DIN HLP (DIN 51524cz2),

ISO-L-HM,

Approvals:

Meet HF-0; HF-1; HF-2 Denison-Parker Hydraulic; approved for the following viscosity classes VG 32; 46; 68,

Meet the requirements of Vickers, Bosch-Rexroth

FZG (ASTM D5182) >10

Packaging:

17 kg, 180 kg, 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 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.

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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