LOTOS Oil

Hydraulic oils

HYDROMIL SUPER L-HV

Hydraulic oil Hydromil Super L-HV is designed for application in heavy loaded drive and hydraulic control systems. Hydromil Super L-HV oil is formulated on the base of deeply refined, dewaxed and hydrorefined mineral oils received from crude oil refining. The oil contains a properly selected package of ash-free viscosity/temperature, anticorrosion and anti-oxidation additives as well as lubrication, de-emulsifying and antifoam attributes. The oil does not contain zinc, it is safe during exploitation and in contact with non-ferrous metals used for hydraulic systems construction.

Hydraulic oil Hydromil Super L-HV is applied in heavy loaded power transmission systems as well as drive and hydraulic control systems. It can also be used in hydraulic systems of construction and mining machinery requiring oil of VG 32-68 viscosity grades and a very low dependence of oil viscosity on temperature.

Characteristics :

The oil formula guarantees:

- optimum protection of the lubricated elements` surface,
- high antifoam properties,
- very good air release,
- excellent de-emulsifying qualities,
- very high hydrolytic stability,
- low dependence of oil viscosity on working temperature,
- viscosity resistance to coagulation during work,
- high filterability,
- high resistance to sludge formation,
- excellent 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,
- gears, hydraulic transmissions,
- control gears,
- gear pumps up to 25MPa,
- piston pumps up to 35MPa.

used in changing temperatures, particularly when high thermal loads occur.

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№	Requirements	Research methods by	Unit	Value		
				Hydromil Super L-HV		
				32	46	68
1.	Kinematic viscosity at 40°C	ASTM D-445	mm^2/s	32	46	68
2.	Pour point	ASTM D-5950	^0C	<-42	<-42	<-38
3.	Air release capability at 50^0C	ASTM D 892	min	<5	<7	<10
4.	De-emulsifying properties	ASTM D1401	min	10	12	12
5.	Viscosity index	ASTM D-2270		155	155	150

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 oil Hydromil Super L-HVcan be applied in hydraulic systems requiring zinc-free oils of improved high viscosity and temperature properties as well as anti-wear qualities according to their viscosity grades. Hydromil Super L-HV oils meet the quality requirements for hydraulic oils according to ISO L-HV and can be used everywhere the OEM recommends ISO-L-HV quality and VG 15; 22; 32; 46; 68; 100; 150 viscosity grades.

Specifications, classifications:
ISO VG 32-68
DIN HVLP (DIN 51524cz3)
ISO-L-HV

Approvals:
Meets HF-0; HF-1; HF-2 Denison-Parker Hydraulic; admission certificate is under the procedure of acknowledgement.
Meets the requirements of: Vickers, Bosch-Rexroth.
FZG (ASTM D5182) >10.

Packaging:
In bulk,17 kg, 180kg

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^oC 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.

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Heath, 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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