

Hyspin HLP-D 68

Detergent hydraulic oil

Description

The Hyspin HLP-D 68 hydraulic oil lubricant is based upon highly refined mineral oil enhanced with a zinc additive system. It also contains detergent and dispersant additives.

Application

Hyspin HLP-D 68 is for use primarily in machine tool hydraulic systems, gears and clutch drives in mobile hydraulic systems used outdoors.

This oil can tolerate high levels of water contamination, either from the outdoors environment or by water miscible cutting oils when used in machine tool equipment, and still provide effective lubrication. Such contamination can cause corrosion and seizure of hydraulic components. The detergent/dispersant properties of Hyspin HLP-D 68 maintains the performance of hydraulic systems under these circumstances.

In particular cylinders operating at low speeds, Hyspin HLP-D 68 prevents erratic movement and stick/slip between seals and shafts, greatly reducing seal wear.

Hyspin HLP-D 68 is suitable for mobile equipment where multi-disc clutches are employed. It permits higher torques to be transmitted, and maintain smooth clutch operation, short engagement times, and low rates of clutch wear.

Hyspin HLP-D 68 is fully compatible with nitrile, silicone and fluoropolymer seal materials.

Hyspin HLP-D 68 is classified as follows:

- DIN classification - HLP-D.
- ISO 6743/4 - Hydraulic Oils Type HM.

Hyspin HLP-D 68 meets the requirements of:

- DIN 51524 Part 2 (except for demulsification).

Advantages

- Smooth functioning of sliding parts in hydraulic systems and machine tools.
- Good surface wetting properties provide smooth sliding of seals on hydraulic pistons and rods and reduces corrosion.
- Excellent corrosion protection in arduous conditions.
- Maintains performance in 'wet' operating conditions, eg outdoor equipment, machining operations.

Typical Characteristics

Name	Method	Units	Hyspin HLP-D 68
Density @ 15°C, Relative	ASTM D1298	g/ml	0.88
Viscosity, Kinematic 40°C	ASTM D445	mm ² /s	68
Viscosity, Kinematic 100°C	ASTM D445	mm ² /s	8.8
Viscosity Index	ASTM D2270		> 95
Pour Point	ASTM D97	°C	-24
Flash Point, PMC	ASTM D93	°C	220
Foam Sequence I	ASTM D892	mls/mls	50/0
FZG (A8.3/90)	DIN 51354 / ISO 14635-1	FLS	12
Rust Test (24 hrs Synthetic Sea Water)	ASTM D665B		Pass

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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