



Hyspin™ HVI 46 D

Detergent Hydraulic Oil

Description

Castrol Hyspin™ HVI 46 D (previously called Vario HDX) is a high performance machine tool lubricant, developed to conform to the HLP-D (detergent) classification for hydraulic fluids.

Application

Castrol Hyspin HVI 46 D also incorporates lubricity additives to give smooth slideway motion on the combined hydraulic and slideway lubrication systems of some grinding and gear cutting machine tools. Castrol HLP-D fluids contain detergency additives which maintain dirt and oil oxidation products in suspension, preventing them from settling out and forming deposits which could impair the free operation of valves, leading to erratic system operation. Machine tool manufacturer's are increasingly specifying HLP-D fluids such as Hyspin HVI 46 D, having recognised their advantages in increased system reliability.

Advantages

- HLP-D fluid containing detergency additive.
- Very high viscosity index.
- Contains lubricity additives.
- Maintains cleanliness and give reliable hydraulic action in fine tolerance systems.
- Suitable for a wide range of hydraulic applications and giving consistent operation over wide temperature ranges.
- Overcomes stick/slip, giving judder-free operation of machine tool slideways.

Typical Characteristics

Name	Method	Units	Hyspin HVI 46 D
ISO Classification	-	-	HLP-D 46
Density @ 20°C / 68°F	ISO 12185 / ASTM D4052	kg/m ³	875
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	46
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	7.8
Viscosity Index	ISO 2909 / ASTM D2270	-	150
Pour Point	ISO 3016 / ASTM D97	°C/°F	-33 / -27
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	230 / 446

Subject to usual manufacturing tolerances.

This product was previously called Vario HDX. The name was changed in 2015.

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28 Mar 2015

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