Product Data Sheet

CASTROL HYDO MV

HLP multi-grade hydraulic oils

DESCRIPTION

CASTROL HYDO MV are multi-grade hydraulic oils for systems exposed to wide temperature changes. Their multi-grade characteristics ensure trouble-free operation of hydraulic systems with low start-up and high operating temperatures.
CASTROL HYDO MV exceed the requirements of the DIN standard 51 524 part 2 for HLP hydraulic oils.

APPLICATIONS

- For hydraulic systems which are exposed to wide temperature changes; summer/winter operation, hot running systems/cold start-ups.
- High-frequency hydraulic systems in the automotive industry and in general machine construction.
- Hydraulic systems in construction machines according to manufacturers' specifications of e.g. Atlas, Poclain etc.
- Gear couplings according to manufacturers' specifications of e.g. voith etc.

ADVANTAGES

- multi-grade characteristics covering up to three viscosity grades of conventional HLP hydraulic oils
- resistant to high pressure loads
- aging resistant over very long operating periods
- excellent viscosity/temperature behavior
- good air release ability
- no foam formation
- extremely shear-stable
- protects against corrosion
- suited for the application with non-ferrous metals

NOTES FOR USE

- CASTROL HYDO MV hydraulic oils are compatible with all conventional sealing materials.
- Miscible with all high-quality hydraulic oils. Maximum performance, however, can only be guaranteed if applied unmixed.

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CASTROL HYDO MV

Technical data

	Unit	Value				Test method
CASTROL HYDO MV	-	**32**	**46**	**68**	**100**	-
Color	-	yellow				visual
Base	-	mineral oil				-
ISO viscosity group	-	32	46	68	100	DIN 51519
Density at + 15°C/+ 59°F	kg/m³	865	868	875	883	DIN 51757
Kin. viscosity at + 40°C/+104°F at + 100°C/+ 212°F	mm²/s	34.05 6.87	44.30 8.76	69.04 10.85	98.50 13.40	DIN 51562
Viscosity index	-	183	182	147	135	DIN ISO 2909
Pour point	°C °F	- 33 - 27.4	- 36 - 32.8	- 36 - 32.8	- 33 - 27.4	DIN ISO 3016
Flash point	°C °F	194 381.2	204 339.2	213 415.4	212 413.6	DIN ISO 2592
Copper corrosion	-	no change				ASTM D-130
Steel corrosion	-	0				DIN 51585
Foaming characteristics: 25°C/77°F 95°C/203°F 25°C/77°F	 ml ml ml	 0/0 20/0 0/0	 0/0 30/0 0/0	 0/0 0/0 0/0	 0/0 30/0 0/0	ASTM D 892
Demulsion characteristics	min.	-	20	24	25	DIN 51599

1 mm²/s ≙ 1cSt

These technical data are based on average test results. Minor deviations may occur from case to case.

For further product information please contact the Technical Service of Castrol Industrie GmbH.

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