

PRISTA® MHM

Antiwear Hydraulic oils

Description and Application

PRISTA® MHM hydraulic oils are formulated from highly refined mineral base stocks exhibiting very good demulsibility and air-release properties blended with a highly efficient additive system including rust, oxidation and corrosion inhibitors and anti-wear agents. **PRISTA® MHM** hydraulic oils are developed for use as working media in hydrostatic lubrication systems and in circulating systems for the lubrication of moving parts and mechanism. Both applications require lubricants of very high oxidation stability, improved anti-wear and anti-scuffing properties and ensuring reliable R&O protection.

PRISTA® MHM oils are suitable for application in hydraulic systems equipped with hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units. They are also effectively used as working fluid in plastic component extruders. Thanks to the high quality base oils and additives used in the formulation of these oils they are well suited for hydraulic system operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90°C.

Benefits

- High resistance to oxidation
- Maximum equipment protection against rust and corrosion
- Extremely stable in presence of water

Specifications

ISO 3448	VG 15, 22, 32, 46, 68, 100
ISO 6743/4	ISO-L-HM
ISO 11158	HM
DIN 51524	Part 2 (HLP)
Bosch Rexroth	RDE 90235
Parker (Denison)	HF-0 (including Denison T6C pump test), HF-1 & HF-2
Eaton	E-FDGN-TB002-E
Eaton (Vickers)	M-2950-S (including 35VQ25 pump test), I-286-S3
Fives Cincinnati	P-68 (VG 32), P-69 (VG 68), P-70 (VG 46)
JCMAS	P041 HK Hydraulic specification (VG 32, VG 46)
ASTM D6158	HM
SAE MS1004	HM
GM	LS-2
AIST (US Steel)	126, 127 (VG 32, 46, 68)
SEB	18122

Typical Characteristics

Parameter	Test Method	Typical Value					
		VG 15	VG 22	VG 32	VG 46	VG 68	VG 100
Density at 20°C, g/ml	EN ISO 3675	0.858	0.862	0.868	0.875	0.879	0.883
Kinematic viscosity at 40°C, mm ² /s	EN ISO 3104	15	22	32	46	68	100
Viscosity index	ISO 2909	100	100	100	100	95	95
Flash point, COC, °C	EN ISO 2592	180	190	200	210	220	220
Pour point, °C	ISO 3016	-36	-33	-30	-27	-27	-22
Rust Preventive properties in the presence of distilled water	ISO 7120	pass					



Parameter	Test Method	Typical Value					
		VG 15	VG 22	VG 32	VG 46	VG 68	VG 100
Copper strip corrosion, 3h, 100°C	EN ISO 2160	1a					
Water separability -time to 3 ml emulsion,min	ISO 6614	10	10	10	15	15	15
Air release properties , min	ISO 9120	3	3	4	6	8	10
Oxidation stability after 1000h TAN increase, mg KOH/g	ASTM D 4310	< 1.0					
FZG EP Wear Test (A/8.3/90) - Failure Load Stage	ISO 14635-1	12					

Important note: Typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit: www.prista-oil.com