

PRISTA® MHV

Antiwear multigrade hydraulic oils

Description and application

PRISTA® MHV 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, anti-wear agents and a polymethacrylate VII (Viscosity Index Improver).

PRISTA® MHV lubricants are suitable for use in hydraulic systems subjected to widely varying temperatures from minus 30°C to +50°C, i.e. as in the open. They are intended for use in hydrostatic lubrication systems and moving parts in circulating systems, demanding lubricants with very high oxidation stability, improved anti-wear and anti-scuffing properties, good R&O protection and high shear stability. Oils are suitable for use in hydraulic systems hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units.

Thanks to the high quality base oils and additives used in the formulation of **PRISTA® MHV** they are well suited for hydraulic system operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90°C.

Benefits

- Very high oxidation stability
- High viscosity index
- Extremely stable at low temperature
- Wear protection in vane, piston and gear pumps
- Maximum equipment protection against rust and corrosion at widely varying temperatures

Specifications

ISO 3448	VG 15, 22, 32, 46, 68, 100, 150
ISO 6743/4	ISO-L-HV
ISO 11158	HV
DIN 51524	Part 3 (HVLVP)
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, 46)
ASTM D6158	HV
SAE MS1004	HV
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	VG 150
Density at 20°C, g/ml	EN ISO 3675	0.844	0.848	0.850	0.858	0.870	0.880	0.890
Kinematic viscosity at 40°C, mm ² /s	EN ISO 3104	15	22	32	46	68	100	150



Parameter	Test Method	Typical Value						
		VG 15	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150
Viscosity index	ISO 2909	170	170	160	140	145	140	135
Flash point, COC, °C	EN ISO 2592	180	200	210	220	230	230	235
Pour point, °C	ISO 3016	-39	-39	-39	-39	-36	-30	-24
Rust Preventive properties in the presence of distilled water	ISO 7120	pass						
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	20
Air release properties , min	ISO 9120	3	3	4	6	8	10	12
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