PRISTA® MHV

HYDRAULIC OILS

DESCRIPTION

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).
Available in the following ISO 3448 viscosity grades: 15, 22, 32, 46, 68, 100 & 150.

APPLICATION

The hydraulic oils **PRISTA® MHV** contain an especially selected highly shear stable Viscosity Index Improver ensuring to the oils superior properties both at normal operating modes and temperatures and at severe service conditions including very high shear rates, elevated pressure and widely varying temperatures from minus 30°C to +50°C, i.e. as in the open.
PRISTA® MHV hydraulic oils are developed for use as working media in hydrostatic lubrication systems and in circulating systems for the lubrication of friction/moving parts and assemblies. Both applications require lubricants of very high oxidation stability, improved anti-wear and anti-scuffing properties, good R&O protection and high shear stability.
These hydraulic oils are suitable for application in hydraulic systems equipped with hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units.
Thanks to the high quality base oils and additives used in the formulation of the oils they are well suited for hydraulic system operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90°C.

TECHNICAL DESIGNATION

ISO-L-HV according to ISO 6743/4

PRISTA® MHV

SPECIFICATIONS

DIN 51524, Part 3
ISO 11158-HV
Denison HF-O (including Denison T6C pump test), HF-1 & HF-2
Vickers M-2950-S, I-286-S
US Steel 127 (VG 32, 46, 68)

TYPICAL CHARACTERISTICS

№	PARAMETER	TEST METHOD	TYPICAL VALUES						
			15	22	32	46	68	100	150
1.	Density at 20°C, g/ cm^3	EN ISO 3675	0.866	0.867	0.868	0.875	0.879	0.883	0.889
2.	Kinematic viscosity at 40°C, mm^2/s	EN ISO 3104	15	22	32	46	68	100	150
3.	Viscosity index	ISO 2909	170	140	150	150	145	140	135
4.	Flash point, COC,°C	EN ISO 2592	170	180	190	200	210	220	235
5.	Pour point,°C	ISO 3016	-36	-33	-30	-24	-21	-18	-15
6.	Foaming, ml (Tendency/Stability) - Seq I, at 24°C - Seq II, at 93.5°C - Seq III, at 24°C	ISO 6247	50/0 50/0 50/0						
7.	Rust Preventive Properties in the presence of distilled water	ISO 7120	pass						
8.	Copper strip corrosion, 3h, 100°C	EN ISO 2160	1a						
9.	Water separability -time to 3 ml emulsion, min	ISO 6614	10	10	10	15	15	15	20
10.	Air release properties, 50°C, min	ISO 9120	3	3	4	6	8	10	10
11.	Oxidation stability, 1000h - TAN increase, mg KOH/g	ASTM D 4310	<1.0						
12.	FZG Test (A 8.3/90) - Failure Load Stage	DIN 51354-2	12						

Remark: The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.