



**PRISTA® MHM-b**

**PRISTA OIL**

## ■ DESCRIPTION

**PRISTA® MHM-b** 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 free from zinc or other metals and including rust, oxidation and corrosion inhibitors and anti-wear agents.

Available in the following ISO 3448 viscosity grades: 10, 15, 22, 32, 46, 68, 100 & 150.

## ■ APPLICATION

**PRISTA® MHM-b** 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.

One of the advantages of ashless additives is to improve oil filterability when contamination with water is expected. Therefore these oils can successfully be used as working fluid in systems with high temperature loads and where contaminations with water are expected to occur such as paper presses. They are also effectively used as working fluid in plastic component extruders.

**PRISTA® MHM-s** 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-HM according to ISO 6743/4

HYDRAULIC OILS

# PRISTA® MHM-D

PRISTA OIL

## SPECIFICATIONS

DIN 51524, Part 2  
ISO 11158-HM (replaced AFNOR NF E 48-603)  
Meets the requirements of Vickers 104C vane pumps test (IP 281/85)  
Muller Weingarten Brugger Performance tests

## TYPICAL CHARACTERISTICS

Nº	PARAMETER	TEST METHOD	TYPICAL VALUE							
			10	15	22	32	46	68	100	150
1.	Density at 20°C, g/ cm <sup>3</sup>	EN ISO 3675	0.881	0.866	0.867	0.868	0.875	0.879	0.883	0.889
2.	Kinematic viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	10	15	22	32	46	68	100	150
3.	Viscosity index	ISO 2909	100	100	100	100	100	95	95	90
4.	Flash point, COC, °C	EN ISO 2592	160	170	180	190	200	210	220	235
5.	Pour point, °C	ISO 3016	-36	-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 presence of distilled water	ISO 7120	pass							
8.	Copper strip corrosion, 3h, 100°C	EN ISO 2160	1							
9.	Water separability -time to 3 ml emulsion,min	ISO 6614	10	10	10	10	15	15	15	20
10.	Air release properties at 50°C, min	ISO 9120	2	3	3	4	6	8	10	10
11.	Oxidation stability after 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	12	12	12	12	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.