

# Goldenstone® MHMb

## Technical Data Sheet (TDS)

### Antiwear Hydraulic oils

#### Description and Application

GOLDENSTONE® 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, including rust, oxidation and corrosion inhibitors and anti-wear agents GOLDENSTONE® MHM-b hydraulic oils are developed for use as working media in hydrostatic lubrication systems and moving parts in circulating systems, hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units..

One of the advantages of ashless additives is that they improve oil filterability especially 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.

The oils are well suited for hydraulic system operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90°C

#### Benefits

- Improved operating and filtration performance in water contaminated systems
- High resistance to oxidation
- Maximum equipment protection of rust and corrosion
- Extremely stable in presence of water

#### Specifications

ISO 6743/4	ISO-L-HM
ISO 3448	VG 10, 15, 22, 32, 46, 68, 100
ISO 11158	HM
DIN 51524	Part 2 (HLP)
Muller Weingarten Brugger	pass performance tests
Vickers	104C vane pump test (IP 281/85)

#### Typical Characteristics

Parameter	Test Method	Typical Value						
		10	15	22	32	46	68	100
Density at 20°C, g/ml	EN ISO 3675	0.881	0.866	0.867	0.868	0.875	0.879	0.883
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	10	15	22	32	46	68	100
Viscosity index	ISO 2909	100	100	100	100	100	95	95
Flash point, COC, °C	EN ISO 2592	125	140	160	190	200	210	220
Pour point, °C	ISO 3016	-36	-36	-33	-30	-27	-27	-18
Copper strip corrosion, 3h, 100°C	EN ISO 2160	1						
Water separability -time to 3 ml emulsion, min	ISO 6614	10	10	10	10	15	15	15
Air release properties, min	ISO 9120	2	3	3	4	6	8	10
Oxidation stability after 1000h TAN increase, mg KOH/g	ASTM D 4310	< 1						
FZG EP Wear Test (A 8.3/90) - Failure Load Stage	DIN 51354-2	-	12	12	12	12	12	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.goldenstoneoils.com](http://www.goldenstoneoils.com)

## Packages

210L, Bulk

Version: March 14, 2018