

Goldenstone® MHM-D

Technical Data Sheet (TDS) Antiwear Hydraulic oils

Description and Application

GOLDENSTONE® MHM-D hydraulic oils are developed to be used as working media in both hydrostatic lubrication systems and in circulating systems for the lubrication of moving parts and mechanisms, subjected to severe operating conditions. Thanks to their improved detergent/dispersant properties, **GOLDENSTONE® MHM-D** hydraulic oils readily disperse particulates and emulsify liquid contaminants. Thus, they prevent as much as practically possible the formation of deposits and sludge, preventing the occurrence of premature failures.

Their special advantages, however, will be mostly benefited in cases where contamination of the system cannot be avoided and here **GOLDENSTONE® MHM-D** will prove that they are really 'trustworthy & sound' oils.

GOLDENSTONE® MHM-D 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 conventional oxidation, rust and corrosion inhibitors plus additional detergent/dispersant agents.

Benefits

- High resistance to oxidation
- Maximum equipment protection of rust and corrosion
- Prevent sludge and deposit formation

Specifications

ISO 3448	VG 22, 32, 46, 68, 100
ISO 6743/4	ISO-L-HM
ISO 11158	HM (replaced AFNOR NF E 48-603) w/o demulsibility)
DIN 51524	Part 2 (HLPD)
MAN	N 698-H-LPD

Typical Characteristics

Parameter	Test Method	Typical Value				
		22	32	46	68	100
Density at 20°C, g/ml	EN ISO 3675	0.867	0.868	0.875	0.879	0.883
Kinematic viscosity at 40°C, mm ² /s	EN ISO 3104	22	32	46	68	100
Viscosity index	ISO 2909	100	100	100	95	95
Flash point, COC, °C	EN ISO 2592	160	190	200	210	220
Pour point, °C	ISO 3016	-33	-30	-27	-27	-18
Copper strip corrosion, 3h, 100°C	EN ISO 2160	1				
Air release properties, min	ISO 9120	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

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