

# GOLDENSTONE® Bio MHM-46

## Technical Data Sheet (TDS)

### HYDRAULIC OILS

#### Description and Application

GOLDENSTONE® Bio-MHM 46 is bio-degradable hydraulic oil based on TPM fatty acid esters and a special ashless additive package including R&O inhibitors and wear protection agents.

GOLDENSTONE® Bio-MHM 46 is developed for use as working media in hydrostatic lubrication systems and in circulating systems for the lubrication of moving parts and mechanism, operating in a temperature range from minus 25°C to + 80°C

GOLDENSTONE® Bio-MHM 46 successfully passes biodegradability tests CEC-L-33-A-93 и OECD 301B.

#### Benefits

- Ensure optimum lubrication
- Long service life
- Biodegradable
- Very good corrosion protection

#### Specifications

ISO 3448	VG 45
VDMA 24568	HEES
W.G.K.	Class 0

#### Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ cm <sup>3</sup>	EN ISO 3675	0.917
Color	ISO 2049	1.0
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	46
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	EN ISO 3104	8.9
Viscosity index	ISO 2909	180
Flash point, COC, °C	EN ISO 2592	290
Pour point, °C	ISO 3016	-33
Foaming, ml (tendency/stability)	ISO 6247	
-Seq I, at 24°C		10/0
-Seq II, at 93.5°C		0/0
-Seq III, at 24°C		10/0
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	20

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)