



Mobil Hydraulic Oil M 46

Mobil Industrial , Greece

Zinc-free and ashless hydraulic oil

Product Description

Mobil Hydraulic Oil M 46 is formulated with high quality solvent-refined base oils. It is free from ash-forming components, silicone and zinc. It exhibits very good anti-wear and corrosion protection properties, outstanding oxidation and thermal stability, small foaming tendency as well as good water separation characteristics. Mobil Hydraulic Oil M 46 exceeds the minimum requirements of the DIN 51524 part 2 HLP (1985).

Features and Benefits

Features	Advantages and Potential Benefits
Excellent anti-wear properties	Trouble-free operation
High oxidation and thermal stability	Long oil life
Free of zinc	Low impact on waste water
Free of ash-forming components	Low formation of residues during operation
Free of silicone	Trouble-free coating processes
Suitable for the lubrication of rolling and sliding bearings as well as spur gears	Allows product slate reductions
Low foaming tendency, even at high circulation rates	Trouble-free operation
Good water separation	Allows removal of water to reduce damages caused by corrosion
Compatibly with most seals	Trouble-free operation

Applications

Mobil Hydraulic Oil M 46 is particularly designed for application to Müller Weingarten hydraulic presses, meeting the specific requirements for this application. Mobil Hydraulic Oil M 46 is also suitable for modern hydraulic systems for which DIN 51524 part2 HLP (1985) quality level is required. It can be used also for the lubrication of bearings and spur gears in equipment such as machine tools.

Specifications and Approvals

Mobil Hydraulic Oil M 46 meets or exceeds the requirements of:	
DIN 51524 Part 2 HLP (1985)	X

Mobil Hydraulic Oil M 46 has the following builder approval:	
Müller-Weingarten	X

Typical Properties

Mobil Hydraulic Oil M 46	
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Mobil Hydraulic Oil M 46	
Viscosity, ASTM D 445	
cSt @ 40°C	46
cSt @ 100°C	6,8
Acid Number #, mg KOH/g, ASTM D 974	0,4
Pour Point, °C, ASTM D 97	-27
Flash Point, °C, ASTM D 92	210
Density @ 15 °C kg/l, ASTM D 4052	0,875
Load carrying capacity (Brugger), N/mm ² , E-DIN 51347, part 2	35
FZG, (A/8,3/90), FLS rating, DIN 51354, part 2	12

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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05-2020

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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