



Mobil™ Hydraulic Oil M 46

Mobil Industrial , Germany

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 51524-2:2006-09 |
| Schuler Group HLP |

Typical Properties

| | |
|--------------------------|--|
| Mobil Hydraulic Oil M 46 | |
|--------------------------|--|

| | |
|---|-----|
| 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 |
| 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

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

04-2022

EXXONMOBIL LUBRICANTS & SPECIALTIES EUROPE, A DIVISION OF EXXONMOBIL PETROLEUM & CHEMICAL, BVBA (EMPC)

POLDERDIJKWEG

B-2030 Antwerpen

Belgium

You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: <https://www.mobil.com/de/de-de/kontakt>

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

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil



© Copyright 2003–2023 Exxon Mobil Corporation. All Rights Reserved