



Morgan No-Twist® Oil Series

Mobil Industrial , 中国

Premium Circulating Oils



Product Description

The Morgan No-Twist® Oil series is a high performance family of heavy duty circulating oils specifically designed to meet the critical requirements of No-Twist ro manufactured by Primetals Technologies. Their versatile performance makes them an excellent choice for circulation systems lubricating gears and bearings.

The excellent performance of Morgan No-Twist® oils in Primetals Technologies rod mills is due to a carefully balanced formulation providing superior wettability, e retention and thin film protection against rust and corrosion. In addition, these lubricants also provide excellent resistance to oxidation and thermal degradation, high level of wear protection.

Morgan No-Twist® oils also have excellent demulsibility especially at mill operating temperatures which typically are lower than the ASTM D1401 test method allows water and other contaminants to separate readily in the system reservoir. Morgan No-Twist® Oils are available in three viscosity grades.

Features and Benefits

Morgan No-Twist® oils utilize the same technology found in Mobil Vacuoline 500 series oils, whose proven performance has made them the primary choice of Pri Technologies equipment owners worldwide. Morgan No-Twist® oils are recommended by Primetals Technologies for their equipment, as well as hydraulic systems variety of ancillary equipment. They are supported with the joint expertise and field technical services offered by Mobil and Primetals Technologies.

| Features | Advantages and Potential Benefits |
|---|---|
| Strong rust and corrosion protection through a balanced lubricant formulation | Fewer unscheduled stoppages and lower maintenance costs |
| Outstanding anti-wear performance | Excellent protection of critical bearings and gears |
| Excellent demulsibility characteristics | Rapid water separation for smooth, efficient operation, less downtime and uncompromised wear protection |
| High resistance to oxidation and thermal degradation | Long oil charge life and cost avoidance for potential production interruptions |
| Multiple application capability | Inventory savings |

Applications

Morgan No-Twist® oils are intended primarily for plain bearings, roller bearings, parallel shaft and bevel gearing. They are suitable as multipurpose lubricants in systems not subject to shock loading or which do not require extreme pressure performance. They are suitable for applications using splash, bath and slinger ring arrangement and all other application methods involving pumps, valves and auxiliary equipment. They are recommended for use in hydraulic systems where higher viscosity is specified. They are particularly resistant to the effects of prolonged high temperature exposure and perform well in circulating systems with short oil residence times.

Typical applications include:

- Primetals Technologies system B-1 (ISO 320), B-2 (ISO 220) and C (ISO 100) mills
- Moderate duty spur, bevel, helical and herringbone gear units
- Circulating systems
- Morgan No-Twist® Oil 100 can also be used in hydraulic systems employing gear, vane, radial and axial piston pumps where high viscosity anti-wear hydraulic oils are required.
- Certain compressors and vacuum pumps handling air and inert gases provided the discharge temperatures do not exceed 150°C. Not suitable for breathers and compressors

Properties and Specifications

| Property | 100 | 320 | 460 |
|--|------|---------|---------|
| Grade | | ISO 320 | ISO 460 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1A | 1A | 1A |
| Demulsibility, Total Free Water, Non-EP Oils, ml, ASTM D2711 | 39 | 39 | 35 |
| Density @ 15 C, kg/l, ASTM D1298 | 0.88 | 0.89 | 0.90 |
| Emulsion, Time to 37 mL Water, 54 C, min, ASTM D1401 | 15 | | |
| Emulsion, Time to 40/37/3, 82 C, min, ASTM D1401 | | 20 | 25 |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1 | 12 | 12 | 12 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 264 | 288 | 286 |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 10 | 10 | 5 |
| Foam, Sequence II, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence II, Tendency, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence III, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence III, Tendency, ml, ASTM D892 | 0 | 0 | 0 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 10.7 | 24.4 | 29.4 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 89 | 309 | 453 |
| Pour Point, °C, ASTM D97 | -24 | -12 | -12 |
| Rust Characteristics, Procedure A, ASTM D665 | PASS | PASS | PASS |
| Rust Characteristics, Procedure B, ASTM D665 | PASS | PASS | PASS |
| Viscosity Index, ASTM D2270 | 99 | 96 | 95 |

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.as>

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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 perfor

are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All procedures may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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