



Mobil Rarus™ 400 Series

Air Compressor Lubricants

Product Description

The Mobil Rarus™ 400 Series is a line of premium performance ashless air compressor lubricants designed to meet the stringent requirements of the major compressor manufacturers. They are formulated with high quality mineral base-oils and a high performance additive system designed to provide exceptional equipment protection and reliability for compressors operating under mild to severe conditions. They provide excellent wear protection and the ability to reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Because of their high FZG Ratings, the Mobil Rarus 400 Series make outstanding lubricants for compressor systems employing gears and bearings making them an excellent selection for crankcases as well as cylinder lubricants.

Features and Benefits

The use of the Mobil Rarus 400 Series oils can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Their excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. They possess outstanding anti-wear and corrosion protection, which enhances equipment life and performance.

| Features | Advantages and Potential Benefits |
|---|---|
| Low Ash and Carbon Formation | Improved valve performance Reduced deposits in discharge lines Reduced potential for fires and explosions in discharge systems Improved compressor performance |
| Outstanding Oxidation and Thermal Stability | Longer oil life Improved filter life Lower maintenance costs |
| High Load-carrying ability | Reduced wear of rings, cylinders, bearings and gears Less carryover to downstream equipment |
| Excellent Water Separability | Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescers Less potential for emulsion formation |
| Effective Rust and Corrosion Protection | Improved protection of valves and reduced wear of rings and cylinders |

Applications

The Mobil Rarus 400 Series oils are recommended for single and multistage air compressors. They are particularly effective for continuous high temperature operation. The maximum compressed air temperature, according to DIN 51506, is 220 °C. They are suitable for reciprocating and rotary type machines with the lower viscosity grades mainly used in rotary compressors. Rarus 400 Series oils are recommended for units with a history of excess oil degradation, poor valve performance or deposit formation. They are compatible with all metals used in compressor construction and with mineral-oil compatible elastomers used in seals, O-rings and gaskets.

Mobil Rarus 400 Series oils are not intended or recommended for use in air compressors for breathing applications.

The following types of compressors have shown excellent performance with the Mobil Rarus 400 Series oils:

- Reciprocating air compressor crankcases and cylinders
- Rotary screw compressors
- Rotary vane compressors
- Axial and centrifugal compressors
- Compressor systems with critical gears and bearings
- Compressors used in stationary and mobile applications

Specifications and Approvals

| Mobil Rarus 400 Series meets or exceeds the requirements of: | 424 | 425 | 426 | 427 | 429 |
|---|------------|------------|------------|------------|------------|
| DIN 51506 VD-L (1985-09) | X | X | X | X | X |

Typical Properties

| Mobil Rarus 400 Series | 424 | 425 | 426 | 427 | 429 |
|---|------------|------------|------------|------------|------------|
| ISO Viscosity Grade | 32 | 46 | 68 | 100 | 150 |
| Viscosity, ASTM D 445 | | | | | |
| cSt @ 40° C | 32 | 46 | 68 | 104.6 | 147.3 |
| cSt @ 100° C | 5.4 | 6.9 | 8.9 | 11.6 | 14.7 |
| Viscosity Index, ASTM D 2270 | 105 | 105 | 105 | 100 | 100 |
| Sulfated Ash, wt%, ASTM D 874 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Copper Strip Corrosion, ASTM D130, 3 h @ 100° C | 1B | 1B | 1A | 1B | 1A |
| FZG Load Support, DIN 51354, Fail Stage | 12 | 11 | 12 | 11 | 11 |
| Rust Characteristics; ASTM D665 B; ASTM D665 A | Pass | Pass | Pass | Pass | Pass |
| Foam Seq I, ASTM D 892 | 10/0 | 20/0 | 0/0 | 30/0 | 430/20 |
| Flash Point, °C, ASTM D 92 | 236 | 238 | 251 | 264 | 269 |
| Density @ 15° C, ASTM D 1298 | 0.866 | 0.873 | 0.877 | 0.879 | 0.866 |

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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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.

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