

Mobil Rarus 427

Air Compressor Lubricants

Product Description

The Mobil Rarus 427 is a premium performance ashless air compressor lubricants designed to meet the stringent requirements of the major compressor manufacturers. It is 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. It provides excellent wear protection and the ability to reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Because of its high FZG Ratings, the Mobil Rarus 427 makes an outstanding lubricant for compressor systems employing gears and bearings making them an excellent selection for crankcases as well as cylinder lubricants.

Mobil Rarus 427 exceeds the requirements of DIN 51506 VD-L standards and demonstrate a very high resistance to oxidation and deposit formation. It is recommended or approved by many of the leading compressor manufacturers.

Features and Benefits

The use of the Mobil Rarus 427 oil can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Its excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. It possesses 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
Excellent Water Separability	Less carryover to downstream equipment 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 427 oil is recommended for single and multistage air compressors. It is particularly effective for continuous high temperature operation with discharge temperatures up to 150°C. It is suitable for reciprocating and rotary type machines with the lower viscosity grades mainly used in rotary compressors. Rarus 427 oil is recommended for units with a history of excess oil degradation, poor valve performance or deposit formation.



It is compatible with all metals used in compressor construction and with mineral-oil compatible elastomers used in seals, O-rings and gaskets.

Mobil Rarus 427 oil is 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 427:

- 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 the following industry specifications:

DIN 51506 VD-L (RWTUEV approved)	X
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Typical Properties

Mobil Rarus 400 Series	427
ISO Viscosity Grade	100
Viscosity, ASTM D 445	
cSt @ 40°C	104.6
cSt @ 100°C	11.6
Viscosity Index, ASTM D 2270	100
Sulfated Ash, wt%, ASTM D 874	<0.01
Copper Strip Corrosion, ASTM D130, 3 h @ 100°C	1B
FZG Load Support, DIN 51534, Fail Stage	11
Rust Characteristics; ASTM D665 B, ASTM D665 A	Pass
Foam Seq I, ASTM D 892	30/0
Flash Point, °C, ASTM D 92	264
Density @ 15°C, ASTM D 1298	0.879

Precautions

MOBIL RARUS 427 is manufactured from high quality petroleum base stocks , carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

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