Mobil Rarus™ 424J

Mobil Industrial , South Korea

Air Compressor Lubricant

Product Description

The Mobil Rarus™ 424J is the premium performance air compressor lubricant primarily intended for the lubrication of severe duty rotary screw and vane air compressors. The product is formulated with specific high quality mineral base-oils and a high performance additive system designed to provide exceptional equipment protection and reliability for compressors operating under severe conditions. Mobil Rarus 424J provides excellent wear protection and outstanding resistance to oxidation and thermal degradation. Its exceptional water separating characteristics reduce problems with emulsion formation and carryover into downstream piping and equipment. The product is designed to meet the stringent requirements of the major compressor manufacturers.

Features and Benefits

The use of the Mobil Rarus 424J oil 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
Reduce Vanish and Sludge 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
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 internal compressor components

Applications

The Mobil Rarus 424J oil is primarily for rotary screw and vane air compressor, very effective in screw type compressors with oil injection cooling; compressors with a history of excess oil degradation, poor valve performance or deposit formation. It is particularly effective for continuous high temperature operation. The maximum compressed air temperature, according to DIN 51506, is 220°C.. The product is compatible with all metals used in compressor construction and with mineral-oil compatible elastomers used in seals, O-rings and gaskets.

Mobil Rarus 424J 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 424J oil:

- Rotary screw compressors
- Rotary vane compressors

- Compressor systems with critical gears and bearings
- Compressors used in stationary and mobile applications

Properties and Specifications

Property	
Grade	ISO 32
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B
Density @ 15 C, kg/l, ASTM D4052	0.8506
Emulsion, Time to 0 mL Emulsion, 54 C, min, ASTM D1401	10
Flash Point, Cleveland Open Cup, °C, ASTM D92	236
Foam, Sequence I, Tendency, ml, ASTM D892	10
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.595
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	30.95
Pour Point, °C, ASTM D97	-30
Rotating Pressure Vessel Oxidation Test, min, ASTM D2272	3360
Rust Characteristics, Procedure B, ASTM D665	PASS
Viscosity Index, ASTM D2270	120
Foam, Sequence I, Stability, ml, ASTM D892	0

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

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08-2020

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