Mobil Rarus SHC™ 1020 Series

Mobil Industrial , Saudi Arabia

Air Compressor Lubricant

Product Description

The Mobil Rarus SHC™ 1020 Series is a line of supreme performance oils primarily intended for the lubrication of severe duty rotary screw and vane air compressors. They are particularly suited for severe service where mineral oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. They are formulated with design-specific wax-free synthetic hydrocarbon fluids and a high technology additive system that assures exceptional resistance to oxidation and thermal degradation far superior to mineral oil-based air compressor oils. They provide outstanding equipment protection and reliability for compressors operating under conditions where other air compressor oils are not meeting expectations. Mobil Rarus SHC 1020 Series provide excellent wear protection and outstanding resistance to oxidation and thermal degradation, greatly superior to mineral oils. Their unique formulation provides the ability to reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Their high viscosity index ensures effective lubrication at high temperatures.

Mobil Rarus SHC 1020 Series lubricants significantly reduce the potential for fires and explosions when compared to mineral oil-based products. They exhibit a virtual absence of deposit formation and high autogeneous ignition temperatures improving both performance and safety. Their exceptional water separating characteristics reduce problems with emulsion formation coalescers and filters reducing the need for frequent maintenance.

Features and Benefits

The use of the Mobil Rarus SHC 1020 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
High Performance Synthetic Base Stocks	Wide temperature range capability Significant performance capabilities relative to mineral oils Improved safety Extended service life
Outstanding Oxidation and Thermal Stability	Reduced coking deposits Longer oil life Improved filter life Lower maintenance costs
High Load-carrying ability	Reduced wear of bearings and gears
Excellent Water Separability	Less carryover to downstream equipment Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescers, inter- and after-coolers Less potential for emulsion formation
Effective Rust and Corrosion Protection	Improved protection of internal compressor components

Applications

The Mobil Rarus SHC 1020 Series oils are primarily intended for rotary screw and vane compressors. They are particularly effective for continuous high

temperature operation with discharge temperatures up to 200° C. Rarus SHC 1020 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 conventional mineral oil-based air compressor oils but admixture with other oils may detract from the total performance capability.

Mobil Rarus SHC 1020 Series oils are not recommended for air compressors used in breathing air applications and should not be used in compressors where the discharge temperature is higher than the product flash point.

The following types of compressor applications have shown excellent performance with the Mobil Rarus SHC 1020 Series oils:

- Primarily recommended for rotary screw and vane air compressor
- Very effective in screw type compressors with oil injection cooling
- Units operating under severe conditions
- Multistage units with a history of excessive oil degradation from mineral oil-based products
- Compressor systems with critical gears and bearings
- Compressors used in stationary and mobile applications

Properties and Specifications

Property	MOBIL RARUS SHC 1024	MOBIL RARUS SHC 1025	MOBIL RARUS SHC 1026
Grade	ISO 32	ISO 46	ISO 68
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D130	1B	2A	1B
Flash Point, Cleveland Open Cup, °C, ASTM D92	245	246	246
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.7	7.2	10.1
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	31.5	44	66.6
Pour Point, °C, ASTM D97	-48	-45	-45
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS
Specific Gravity, 15 C/15 C, ASTM D1298	0.846	0.849	0.856
Viscosity Index, ASTM D2270	127	131	136

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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