# Mobil SHC Rarus™ Series

Mobil Industrial , Qatar

Supreme Performance Air Compressor Lubricant

### Product Description

Mobil SHC™ Rarus Series oils are supreme performance air compressor lubricants primarily intended for the lubrication of severe duty rotary screw and vane air compressors. They are particularly suited for severe service where synthetic 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. Mobil SHC Rarus Series formulation provides the potential to deliver up to 3 times oil drain interval versus a leading synthetic compressor lubricant.

### Features and Benefits

- Outstanding thermal / oxidation stability help to provide up to three times oil drain interval versus a leading synthetic compressor oil and reduce maintenance downtime
- Excellent varnish and sludge control helps to deliver cleanliness and extended compressor oil life
- High performance synthetic base stocks with high viscosity index enables wide temperature range capability and effective lubrication at high temperatures
- High load carrying capability protects equipment and extends life, helps minimize unexpected downtime and extend service periods
- Exceptional resistance to rusting and corrosion, very good antiwear, demulsibility, foam control and air release and multi-metal compatibility
- Excellent water separability helps reduce carryover to downstream equipment, reduce sludge formation in crankcases and discharge lines, helps reduce blockage of coalescers, coolers and less potential for emulsion formation

### Applications

- Mobil SHC Rarus Series are 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
- Compressors operating under severe conditions, particularly effective for continuous high temperature operation with discharge temperatures up to 200ºC
- Compressor systems with critical gears and bearings
- Not for air compressors used in breathing air applications
- Compatible with all metals used in compressor construction and with conventional mineral oil-based air compressor oils but mixture with other oils may detract from the total performance capability

### Properties and Specifications

| Property | 32 | 46 | 68 |
|---|---|---|---|
| Grade | ISO 32 | ISO 46 | ISO 68 |
| Color, Visual | Orange liquid | Orange liquid | Orange liquid |
| Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D130 | 1B | 1B | 1B |
| Flash Point, Pensky-Martens Closed Cup, °C, ASTM D93 | 204 | 197 | 192 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 5.6 | 7.1 | 9.7 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 30.6 | 44.1 | 65.3 |
| Pour Point, °C, ASTM D5950 | -42 | -45 | -39 |

| Property | 32 | 46 | 68 |
|---|---|---|---|
| Rust Test, Synthetic Sea Water, 24 h @ 60 C, ASTM D665-PROB | PASS | PASS | PASS |
| Specific Gravity, 15 C/15 C, ASTM D1298 | 0.878 | 0.868 | 0.865 |
| Viscosity Index, ASTM D2270 | 123 | 122 | 129 |

**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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04-2024

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