

# Mobil Rarus SHC™ 1020 Series

Severe-duty rotary screw and vane air compressor lubricants



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## Product features

Mobil Rarus SHC™ 1020 Series oils (Mobil Rarus SHC™ 1024 and Mobil Rarus SHC™ 1025) are formulated with wax-free synthetic hydrocarbon fluids and a high-technology additive system. They are formulated to provide:

- Exceptional resistance to oxidation and thermal degradation
- High viscosity index
- Water separation characteristics

Handles discharge temperatures up to **200°C**

## Potential benefits

When compared with mineral oil based products, Mobil Rarus SHC 1020 Series oils offer a range of advantages including:

- 1** Wider temperature range capability
- 2** Minimised sludge formation in crankcases and discharge lines
- 3** Lower potential for emulsion formation
- 4** Enhanced filter life

## High-temperature operation

Mobil Rarus SHC 1020 Series oils deliver outstanding performance for continuous high-temperature operation with discharge temperatures up to 200 degrees Celsius. They are recommended for units with a history of excessive oil degradation, poor valve performance or deposit formation.

The oils are compatible with all metals used in compressor construction and with conventional mineral oil-based air compressor lubricants, but admixture may detract from the overall performance.

Applications	
Severe-duty rotary screw and vane air deck compressors	✓
Marine turbo chargers	✓

\*The series is not recommended for air compressors used in breathing air applications.

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## High viscosity index and water separating characteristics

The formulation of the Mobil Rarus SHC™ 1020 Series oils provides excellent wear protection and the ability to reduce maintenance costs by minimising equipment problems, downstream deposits and carryover. Their high viscosity index ensures effective lubrication at high temperatures.

Strong water separating characteristics help reduce problems with emulsion formation and filters, reducing the need for frequent maintenance. Mobil Rarus SHC 1020 Series lubricants have a high autogeneous ignition temperature, significantly reduce the potential for fires and explosions when compared with mineral oil-based products.



## Typical properties\*

Mobil Rarus SHC 1020 Series	1024	1025
ISO viscosity grade	32	46
Flash point, °C, ASTM D 92	245	246
Specific gravity 15°C/15°C, ASTM D 1298	0.846	0.849
Viscosity, ASTM D 445		
High load-carrying ability	Reduced wear of bearings and gears	
cSt @ 40°C	31.5	44
cSt @ 100°C	5.7	7.2
Viscosity index, ASTM D 2270, min	127	131
Copper strip corrosion, ASTM D130, 24 h @ 100°C	1B	2A
Rust characteristics Proc A, ASTM D 665	Pass	Pass
Pour point, ASTM D 97, °C, max	-48	-45

\*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 [exxonmobil.com](http://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.