

Mobil Rarus™ 800 Series

High-performance lubricants for severe-duty reciprocating air compressors



Energy lives here™

Product features

Mobil Rarus™ 800 Series high-performance oils are primarily intended for the lubrication of severe-duty main and emergency marine reciprocating air compressors. The lubricants are formulated with synthetic base oils and an additive system designed to provide:

- Outstanding resistance to antiwear and corrosion, providing excellent equipment protection and helping enhance equipment life
- Resistance to oxidation and thermal degradation, helping reduce maintenance downtime and enable long oil life
- Control of sludge and deposit formation for improved valve performance and cleaner compressors
- Broad seal compatibility for many specialised materials
- Longer running periods between maintenance intervals

Boosts drain intervals up to
2,000
hours.*

Potential benefits

Mobil Rarus 800 Series oils can offer†:

- 1 Decreased maintenance and operating expenses
- 2 Minimised valve coking
- 3 Reduced sludge formation in crankcases and discharge lines
- 4 Less potential for emulsion formation
- 5 Enhanced filter life

Exceptional resistance to temperature degradation

Mobil Rarus™ 827 and Mobil Rarus™ 829 oils offer superior performance to mineral oils, especially in the provision of wear protection and resistance to oxidation and thermal degradation. This helps protect against valve coking while extending overhaul intervals. The lubricants' formulation also helps reduce downstream deposits and carryover compared with mineral-based alternatives.

Applications	
All types of air compressors, but specifically recommended for reciprocating air compressors	✓
Units operating under severe conditions	✓
Multistage units with a history of excessive oil degradation from mineral oil-based products	✓
Cylinder and crankcase lubrication	✓
Compressor systems with critical gears and bearings	✓

*Compared with 500 hours for typical mineral oil alternatives.
†Compared to mineral-based alternatives.

Mobil Rarus™ 800 Series

Ensuring seal compatibility

Mobil Rarus™ 800 Series oils are compatible with seals made from fluorinated hydrocarbon, silicone, fluorosilicone, polysulfide, Viton, Teflon-, and high nitrile Buna N NBR (above 36% acrylonitrile) materials. Materials not recommended include low nitrile Buna N NBR (below 30% acrylonitrile), natural and butyl rubbers, Neoprene, polyacrylate, styrene/butadiene and chlorosulfonated polyethylene.

Mobil Rarus 800 Series oils are particularly effective for continuous, high-temperature operation, with discharge temperatures up to **200°C**.

Typical properties*

Mobil Rarus 800 Series	827	829
ISO Viscosity Grade	100	150
Viscosity, ASTM D 445		
cSt @ 40°C	107.5	158
cSt @ 100°C	10.12	13.2
Viscosity Index, ASTM D 2270	66	70
Total Acid Number, ASTM D 974, mgKOH/g	0.15	0.14
Copper Strip Corrosion, ASTM D130, 3 h @ 121°C	1B	1B
Rust Characteristics Proc A, ASTM D 665	Pass	Pass
Foam Seq I, ASTM D 892	10/0	50/0
Pour Point, ASTM D 97, °C	-36	-40
Flash Point, °C, ASTM D 92	270	270



*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. 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.