

ExxonMobil Mobil Rarus 827

Category : Fluid , Lubricant

Material Notes:

The Mobil Rarus 800 Series is a line of supreme performance air compressor lubricants primarily intended for the lubrication of severe duty reciprocating air compressors. They are engineered to meet or exceed the stringent requirements of the major compressor manufacturers. They are formulated with design-specific synthetic base-oils and a high technology additive system that assures exceptional equipment protection and reliability for compressors operating under conditions where mineral-oil based products are not meeting expectations. Mobil Rarus 800 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 help reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Mobil Rarus 800 Series lubricants significantly reduce the potential for fires and explosions, compared to mineral oil-based products. They exhibit a virtual absence of deposit formation and higher autogenous ignition temperatures improving both performance and safety. Their exceptional water separating characteristics reduce problems with emulsion formation and carryover into downstream piping and equipment. They are recommended or approved by many of the leading compressor manufacturers. The Mobil Rarus 800 Series oils are recommended for single and multistage air compressors. They are particularly effective for continuous high temperature operation with discharge temperatures up to 200°C. They are suitable for reciprocating and rotary type machines with the lower viscosity grades mainly used in rotary compressors. Rarus 800 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 mineral oil-based lubricants but admixture will detract from their performance capabilities. 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. Oil resistant paints are not affected by Mobil Rarus 800 Series, but lacquer, varnish, pvc and acrylic paints are not recommended. The following types of compressor applications have shown excellent performance with the Mobil Rarus 800 Series oils: All types of air compressors but specifically recommended for reciprocating air compressor; Units operating under severe conditions; Multistage units with a history of excessive oil degradation from mineral oil-based products; They can be used for cylinder and crankcase lubrication; Compressor systems with critical gears and bearings; Compressors used in stationary and mobile applications

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Physical Properties	Metric	English	Comments
Viscosity Measurement	66	66	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	107.5 cSt	107.5 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	10.12 cSt	10.12 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	<= -36.0 °C	<= -32.8 °F	ASTM D97
Flash Point	270 °C	518 °F	ASTM D92

Thermal Properties	Metric	English	Comments
Chemical Properties	Metric	English	Comments
Total Acid Number	0.15	0.15	mgKOH/g; ASTM D974

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1B	24 hrs @ 121°C
Foam Sequence I, ASTM D987	10/0	
Rust Prevention, Distilled Water	pass	ASTM D665A

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