

Mobil Rarus 800 Series

Synthetic Premium Air Compressor Lubricants

Product Description

Mobil Rarus 800 Series lubricants are premium quality products intended for the lubrication of severe duty reciprocating air compressors. They are formulated from synthetic esters and a unique additive system to give products of outstanding resistance to oxidation and thermal degradation, greatly superior to mineral oils, and excellent protection against corrosion. They significantly reduce the risks of fire and explosions, compared with mineral oil-based products, through the virtual absence of deposit formation and higher autogenous ignition temperatures. The lubricants have a wide temperature application range from -30 °C to 200 °C.

Based on available toxicological information, Mobil Rarus 827 is approved for use in air breathing compressors provided that the air is passed through suitable filters and oils separators to ensure the removal of aerosol particles prior to discharge into air filling stations. Approval is also subject to compliance with local laws and regulations governing air breathing compressors.

Benefits

Mobil Rarus 800 Series lubricants offer the following benefits:

- Cleaner compressors because of the reduction in deposits, particularly on exhaust valves, inter-coolers and after-coolers
- Longer operating periods between maintenance shutdowns
- Reduced fire and explosion hazards due to reduced deposits
- Reduced lubricant consumption and extended drain periods because of superior stability to oxidation and thermal degradation
- Lower operating costs due to longer operating periods and lower oil consumption

Application

Mobil Rarus 800 Series products may be used in all types of air compressors but are specifically recommended under severe conditions. They are especially effective in multi-stage units where there has been a history of excessive oil degradation deposits from mineral oil-based lubricants. The Mobil Rarus 800 Series are designed to lubricate both cylinders and crank cases. They minimize carbon and sludge deposits in critical high temperatures areas thereby extending the intervals between servicing and cleaning. Lubricant life has been demonstrated to be several times that of mineral oils in critical air compressors. Mobil Rarus 827 is approved for ABB turbo-chargers.

Mobil Rarus 800 Series 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 BNR (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. Mobil Rarus 800 Series are compatible with mineral oils but admixture will detract from their superior performance.

Properties

- Excellent oxidation stability
- Excellent thermal stability
- Minimizes deposit formation

- Minimum foaming tendency
- High autogenous ignition temperature and flash point
- Very good air separation
- Long service life

Health & Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including Material Safety Data Bulletins, is available on request from your local Mobil company.

Typical Characteristics

Mobil Rarus		827	829
Product Number	Test Method	970973	970787
ISO Viscosity Grade		100	150
Viscosity cSt at 40 °C	ASTM D445	107	145
Viscosity cSt at 100 °C	ASTM D445	10.1	12.8
Viscosity Index	ASTM D2270	66	75
Specific Gravity	ASTM D1298	0.958	0.970
Flash Point, °C	ASTM D92	270	270
Pour Point, °C	ASTM D97	-36	-40
Rust Protection	ASTM D665		
Distilled Water		Pass	Pass
Foam Test	ASTM D892		
Sequence I, ml		10/0	50/0
Air Release	ASTM D3427		
Minutes to 0.2%		4	2
Color	ASTM D1500	3.0	3.0