



# Mobil Rarus SHC<sup>™</sup> 1020 Series Supreme-performance air compressor oils



# Outstanding efficiency under extreme pressure

Compact design trends, extreme temperatures, and higher power output rates force modern compressors to operate under increasingly severe conditions. Mobil Rarus SHC<sup>™</sup> 1020 Series, part of the premium Mobil SHC<sup>™</sup> Series of scientifically engineered synthetic performance oils, is particularly suited for severe service where other products are not meeting expectations. Designed to help enable overall problem-free operation, lower maintenance costs, and a safe working environment, Mobil Rarus SHC 1020 Series aims to keep productivity soaring.

### Service life up to 8,000 hours

A supreme-performance oil for severe-duty rotary screw and vane compressors, Mobil Rarus SHC 1020 Series can extend oil life while maintaining long-term equipment protection.

This performance is recognized by more than 20 global compressor builders. Mobil Rarus SHC 1020 Series' proprietary technology enables it to achieve an oil drain of up to 8,000 hours, depending on application and operational conditions.

## Cleaner compressors, lower deposits, less maintenance

Formulated with an advanced base oil and a proprietary additive system that assures exceptional resistance to oxidation and thermal degradation far better than mineral oil lubricants, Mobil Rarus SHC 1020 Series helps provide outstanding protection and reliability. Its exceptional cleanliness and stability characteristics at high temperatures reduce problems with deposit formation and allow for extended oil-drain intervals, reducing the need for frequent maintenance.

### **Reduced risk of fires**

Mobil Rarus SHC 1020 Series lubricants significantly help reduce the potential for fires and explosions when compared to mineral oil–based products. They exhibit a virtual absence of deposit formation and high autoignition temperatures, improving both performance and safety.

# **High-Performance Benefits**

#### Extended oil life

The excellent oxidative and thermal stability of Mobil Rarus SHC 1020 Series effectively control oil aging by preventing sludge and deposit formation. This helps to keep critical components clean, reduce oil disposal costs, and increase productivity.

### Extended equipment life

High load-carrying capability and protection against rust and corrosion, combined with balanced foam control and air release, can minimize equipment failures and provide the potential to improve the productivity of your operation.

#### **Energy savings**

Unique high-performance base-stocks help provide outstanding traction properties. The low internal fluid friction helps reduce oil temperature and offers potential energy savings.

# Mobil Rarus SHC<sup>™</sup> 1020 Series – Performance

# Mobil Rarus SHC<sup>™</sup> 1025 provides US \$ 21,530 savings in a two-stage Linde E480 rotary screw air compressor

# Picture Tube Manufacturer China

# **Benefit**

Mobil Rarus SHC 1025 synthetic lubricant saves US \$ 21,530 as a result of significant increased productivity due to extended oil-drain intervals and filter life.

## Situation

Screw compressors are the most crucial machines in this plant; as such, their reliability is key for the production process. The mineral oil–based compressor oil in use required a short oil-drain interval due to formation of severe carbon residue and poor filter life, resulting in frequent downtime.

### Impact

By switching to Mobil Rarus SHC 1025, a synthetic compressor oil, and implementing a used-oil analysis program, this customer extended the oil-drain interval by 6 times with no formation of oilrelated residues. This, in turn, reduced lubricant, spare part, and maintenance costs, providing US \$ 21,530 in savings per year.

# Mobil Rarus SHC<sup>™</sup> 1026 provides US \$ 21,700 savings in a Kaeser rotary screw air compressor

# Industrial and Medical Gas Producer Singapore

# Benefit

Mobil Rarus SHC 1026 synthetic lubricant saves US \$ 21,700 as a result of significant increased productivity with reduced unscheduled downtime and extended component life.

# Situation

The lubricant used in the Kaeser rotary screw compressor resulted in the formation of gummy deposits. These deposits led to a compressor breakdown every 3 to 4 months. At a significant cost, the compressor had to be dismantled for chemical cleaning, resulting in 4 days of production downtime.

# Impact

During an on-site inspection by a Mobil Industrial Lubricants field engineer, the high operating temperature followed by strong oil oxidation coupled with poor water-separation characteristics of the oil was identified as root cause for the gummy deposits. Mobil engineers recommended Mobil Rarus SHC 1026, a synthetic compressor oil with an excellent oxidation stability and outstanding water-separation capabilities, for use in a wide range of temperatures. Nine months after the conversion, no such compressor failureshave been experienced. Recent inspections show that components have been free of deposits and the bulk oil temperature dropped from 95°C to 87°C. By using Mobil Rarus SHC 1026, this customer is saving US \$ 21,700 per year and increasing productivity.

Mobil Rarus SHC 1020<sup>™</sup> Series —reliable operation under pressure

Product	ISO VG	General Application*
Mobil Rarus SHC <sup>™</sup> 1024	32	Rotary screw and vane air compressors
Mobil Rarus SHC <sup>™</sup> 1025	46	Rotary screw and vane air compressors
Mobil Rarus SHC <sup>™</sup> 1026	68	Rotary screw and vane air compressors

\* Specific manufacturer recommendations may vary; consult owner's manual for specific lubricant recommendations.

For more information on Mobil Rarus SHC<sup>™</sup> 1020 Series and other Mobil industrial lubricants and services, please contact your local company representative or visit mobilindustrial.com.

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