CALTEX

PRODUCT BULLETIN

Compressor Oil RA

Rotary Air Compressor Oil

Premium performance, petroleum based compressor oil containing a special oxidation inhibitor and a rust inhibitor. Designed specifically for use in oil flood lubricated positive displacement rotary compressors at extended drain intervals up to five times longer than with conventional mineral oils.

APPLICATIONS

- Oil flood lubricated rotary screw air compressors
- Oil flood lubricated sliding vane air compressors

Not recommended for use in breathing air compressors.

PERFORMANCE STANDARDS

- Hitachi Approval: rotary compressors at 3000-hour drain intervals (ISO 32)
- Mitsui Seiki Kogyo Approval: screw compressors at 3000-hour drain intervals (ISO 32)
- Hokuetsu Approval: Airman screw compressors (ISO 32)
- Komatsu (ISO 32, 46)

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com.

BENEFITS

Extended oil service life
Outstanding oxidation stability of the highly refined base oil and special inhibitor system resists oil breakdown under the highly oxidizing environment encountered during intimate inter-mixing of oil and air in rotary compressor service, permitting oil drain intervals to be extended up to five times longer than those achieved with conventional lubricants.

Minimum maintenance and downtime
Outstanding oxidation stability also resists the formation of harmful varnish and sludge deposits which are promoted by contact with condensed water vapor, dust and other particulate contaminants. The highly effective film forming corrosion inhibitor plates out on metal surfaces to protect the system against rust.

Trouble-free operation
Excellent air release and anti-foam properties of the highly refined base oil and inhibitor system minimize lubricant carry-over, protect against interruption of lubrication due to air entrained in the oil, and minimize the possibility of foaming and overflow in tanks and reservoirs. Excellent water separating characteristics ensure efficient and rapid separation of condensed water vapor in the reservoir where it may be easily removed by draining.

KEY PROPERTIES

ISO Grade	32	46	68
Acid No., mg KOH/g	0.05	0.05	0.05
Flash Point, COC, °C	226	232	274
Oxidation Characteristics, D943, hrs to 2.0 Acid No.	9000	9000	9000
Viscosity,			
mm²/s @ 40°C	32.0	46.0	68.0
mm²/s @ 100°C	5.6	7.1	9.3
Viscosity Index	114	113	113

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Produced by ChevronTexaco Global Lubricants Solutions

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SERVICE CONSIDERATIONS

In rotary screw and sliding vane air compressors, oil is injected directly into the inlet air to cool and seal the compression space and to lubricate rotors and vanes. This method of lubrication produces oil mists with very high surface areas, promoting rapid uptake of both oxygen and heat, and resulting in rapid oxidation in all but the most stable lubricants.

Service experience indicates that oil drain intervals of 2,000 to 5,000 hours may be achieved when using Compressor Oil RA in well-maintained machines operating in a normal environment (discharge air temperatures up to 100°C). With a suitable oil monitoring program, drain intervals can be extended even further.

Compressor Oil RA is not suitable for reciprocating air compressor applications, particularly where oils meeting DIN 51506 VDL are specified. In such cases, Caltex RPM Compressor Oil is the preferred recommendation.