VANAIR®

A Lincoln Electric Company

Complete Line of Compressor Oils

Vanguard™ Reciprocating Compressor Oil

is a high performance synthetic lubricant designed primarily for reciprocating compressors operating in difficult applications. Formulated with premium synthetic base stocks and performance additives, this lubricant will provide resistance to breakdown, excellent wear protection and wide temperature performance, even in adverse ambient conditions.

Highlights:

- Cost savings from extended service intervals
- High flash point for improved safety
- Excellent demulsibility for improved lubricity and fluid life
- Robust protection from oxidation and thermal degradation
- Protection from wear and corrosion to extend machine life
- Reduced oil make-up costs from low volatility / low foaming formula design
- Potential energy savings over standard mineral oils
- High viscosity index for excellent operability over a wide temperature range

TYPICAL PROPERTIES	VANGUARD™ RECIPROCATING
ISO Grade	68
Viscosity @ 40°C, cSt	68
Viscosity @ 100°C, cSt	10.3
Viscosity Index	139
Flash Point, °C / °F	270 / 518
Pour Point, °C / °F	-51 / -59.8
Foam Sequences I, II, III	<10 / 0
Four Ball Wear, 40 Kg., 1200 RPM, 75°C, 1 Hr., Scar Diameter, mm	<0.50
Demulsibility	Excellent
Specific Gravity	0.86

Vanguard™ Rotary Screw Compressor Oil

is specially designed for use in rotary screw compressors. It is based on a high-quality synthetic blend offering excellent thermal and oxidative stability. Vanguard™ exhibits excellent demulsibility, natural detergency for system cleanliness, and robust wear protection for long compressor life. Under normal operating conditions, Vanguard™ may achieve up to 8,000 hours of service life in rotary screw compressors.

Highlights:

- Cost savings from extended service intervals
- High flash point for improved safety
- Excellent demulsibility for improved lubricity and fluid life
- Robust protection from oxidation and thermal degradation
- Protection from wear and corrosion to extend machine life
- Reduced oil make-up costs from low volatility / low foaming formula design
- Potential energy savings over standard mineral oils
- High viscosity index for excellent operability over a wide temperature range

TYPICAL PROPERTIES	VANGUARD™ ROTARY SCREW
Viscosity @ 40°C, cSt	38.7
Viscosity @ 100°C, cSt	7.84
Viscosity Index	178
Flash Point, °C / °F	254 / 489.2
Pour Point, °C / °F	-51 / -59.8
Fire Point, °C / °F	276 / 529
RPVOT (min)	>2000
Foam Tendency	<10 / 0
Four-Ball Wear (mm)	0.40
Specific Gravity	0.86

Vanguard™ HP Rotary Screw Compressor Oil

is a specially formulated synthetic lubricant offering excellent performance characteristics, extended fluid life, and machine protection in adverse conditions. Ideal for high pressure and high performance applications (350-500 PSIG), it excels in severe operating temperatures and equipment stresses. While rated for use at up to 270ºF, Vanguard™ HP also performs exceptionally well at more moderate temperatures.

Highlights:

- Low sludge formation and excellent solvency to keep compressors clean at elevated temperatures and pressures
- High flash point for improved safety at high temperatures
- Premium antioxidant package to combat breakdown even in extreme conditions
- Excellent hydrolytic stability to prevent acid formation in the presence of moisture
- Low volatility to reduce fluid consumption
- High lubricity to prevent machine wear and to keep operating temperatures down

TYPICAL PROPERTIES	VANGUARD™ HP
ISO Grade	68
Viscosity @ 40ºC, cSt	44
Viscosity @ 100ºC, cSt	10.3
Viscosity Index	139
Flash Point, ºC / ºF	260 / 500
Pour Point, ºC / ºF	-49 / -56.2
Copper Corrosion	1b
Foam Sequences I, II, III	< 10 / 0
Demulsibility	Excellent
Four Ball Wear, 40 Kg., 1200 RPM, 75ºC, 1 Hr., Scar Diameter, mm	<0.50
Specific Gravity	0.89

Vanguard™ Green Rotary Screw Compressor Oil

is our biodegradable rotary screw compressor oil. Though completely eco-friendly, Vanguard™ Green still offers all the benefits of synthetic oil and our exclusive Lifetime Warranty.

Highlights:

- Cost savings from extended service intervals
- High flash point for improved safety
- Elimination of varnish and deposits for clean operation
- Readily biodegradable for reduced environmental impact
- Excellent antiwear performance to extend machine life
- Reduced oil make-up costs from low volatility / low foaming formula design
- Advanced heat transfer capabilities
- High viscosity index for excellent operability over a wide temperature range

TYPICAL PROPERTIES	VANGUARD™ GREEN
ISO Grade	32 / 46
Viscosity @ 40ºC, cSt	40
Viscosity @ 100ºC, cSt	8.3
Viscosity Index	188
Flash Point, ºC / ºF	250 / 482
Pour Point, ºC / ºF	-48 / -54.4
Autoignition	>390
Foam Tendency	< 10 / 0
Color Space	Green
Specific Gravity	0.98

LIFETIME WARRANTY

What should I do for my engine driven and hydraulically driven rotary screw air end prescribed maintenance service?

50 HOURS – INITIAL STARTUP
- Change oil - use Vanguard™ synthetic rotary screw compressor oil
- Change oil filter - use genuine Vanair® part

EVERY YEAR OR 500 HOURS – WHICHEVER COMES FIRST
- Change oil - use Vanguard™ synthetic rotary screw compressor oil
- Change oil filter - use genuine Vanair® part
- Change air filter - use genuine Vanair® part

EVERY 6000 HOURS
- Change UltraLife® Air / Oil Separator Element - Use Genuine Vanair® Part

VANAIR®
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Vanair's **There**

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