Product Data

BP Energol RC-R 4000

Rotary Screw Compressor Lubricant

Description

BP Energol™ RC-R 4000 compressor oil range of premium lubricants are formulated from highly refined mineral oils and novel additive technology to give outstanding antiwear and antirust performance to meet the requirements of Atlas Copco and similar types of compressor design.

Application

Energol RC-R 4000 incorporates a carefully balanced antioxidant system providing improved oxidative and thermal stability giving “extended” service life for both oil flooded and oil injected rotary screw compressors. Lubricant drain cycles are upto 4000 hours under normal use as defined by ISO 6743-3:2003, with maximum air discharge temperature =/< 100°C.
RC-R 4000 can also be used under severe conditions, with maximum air discharge temperature > 100°C, however, the manufacturers standard oil change periods should be used.

The Energol RC-R 4000 range is fully compatible with nitrile, silicone and fluropolymer seal materials.

Energol RC-R 4000 is classified as follows:
ISO 6743-3 DAG and DAH for rotary air compressors

Energol RC-R 4000 grades meet the requirements of:
Atlas Copco for 4000 hour oil life.

Advantages

- Very low deposit forming tendencies extends oil change intervals and air filter life which contributes to a reduction in maintenance costs.
- Good air/oil separation properties at the separator element reduce the risk of oil carry over.
- Good antiwear protection reduces rotor wear.
- Excellent water separation characteristics allow condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- Excellent oxidation and thermal stability minimises oil thickening and extends the oil separator life and reduces fouling of coolers & pipes.
- Prevents corrosion when operating under humid conditions.

Typical Characteristics

Test	Method	Unit	RC-R 4000 32	RC-R 4000 46	RC-R 4000 68
Density @ 15°C	ISO 12185 / ASTM D4052	g/ml	0.87	0.88	0.88
K.V @ 40°C	ISO 3104 / ASTM D445	mm^2/s	32	46	68
K.V @ 100°C	ISO 3104 / ASTM D445	mm^2/s	5.57	6.67	8.57
Viscosity Index	ISO 2909 / ASTM 2270	-	100	100	100
Foam Sequence I	ISO 6247 / ASTM D892	mls/mls	30/0	30/0	30/0
Pour Point	ISO 3016 / ASTM D97	°C	-21	-21	-21
Flash Point, PMC	ISO 2719 / ASTM D93	°C	216	222	222
Rust Test (24 hrs synthetic sea water)	ISO 7210 / ASTM D665B	-	Pass	Pass	Pass
RPVOT	ASTM D2272	mins	700	700	700

Subject to usual manufacturing tolerances.

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