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## Energol RC-R 4000

### Long Drain Air Compressor Lubricant

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#### Applications

The 'Energol RC-R 4000' range are primarily used in rotary screw air compressors and incorporate selected additives that minimize oxidation, deposit-formation and blocking of the air/oil separator filter.

These oils are formulated using hydrotreated basestocks to provide a significant increase in oil life compared with conventional products blended using solvent refined basestocks.

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#### Main Benefits

The 'Energol RC-R 4000' range are ashless oils recommended for the lubrication of rotors, bearings and gears in oil-flooded rotary screw compressors operating with delivery temperatures of up to 120°C. Under these conditions it is important that the oil maintains its high lubrication performance.

The 'Energol RC-R 4000' oils exceed the requirements of Atlas Copco for 4000 hour oil life.

The grades in this range are suitable for both stationary and mobile compressors. The ISO VG 32/46 grades are primarily used in rotary screw compressor applications. The ISO VG 68 grade is more suitable for reciprocating air compressors.

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#### Specifications

- Extended service life compared with conventional compressor oils
- Low deposit-forming tendency
- Prevention of oil-filter blockage in the presence of water.

- Excellent water - and air-separation characteristics.
- Excellent anti-wear performance.

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#### Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration

of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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#### Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards,

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precautions and First Aid measures, together with environmental effects and disposal of used products.

precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

## Typical Characteristics

Test Methods	Units	Grade :
		32 46 68
Density at 15 °C ASTM D1298	kg/m <sup>3</sup>	0.853 0.861 0.869
Flash Point (COC) ASTM D92	°C	216 222 222
Kinematic Viscosity at:		
40 °C ASTM D445	mm <sup>2</sup> /s	32.26 46.48 67.11
100 °C		5.71 7.16 8.88
Viscosity Index ASTM D97		118 113 106
Pour Point ASTM D97	°C	-39 -36 -33
Copper corrosion,3h/100 °C ASTM D130		0 - - -
Corrosion, rust protection ASTM D665A		- - - -
Foam Tendency/Stability: ASTM D892 ml		
Seq I : 24 °C	0/0	- -
Seq II: 93.5 °C	0/0	- -
Seq. III: 24 after 93.5 °C	0/0	- -
Air release at 50 °C ASTM D3427/IP 313 min		2.5 4.5 8.7
Demulse charact. at 54°C : ASTM D1401		
Oil / Water / Emulsion : time ml	41-39-0:T10	-
Demulse charact. at 82°C : ASTM D1401		
Oil / Water / Emulsion : time ml	- - 41-39-0:T10	
FZG gear test : DIN 51354 load stage	- 12 -	
- A/8.3/90 °C failure		
ROCOT (168 hrs / 140°C) DIN 51352 Pt3		
- TAN increase mgKOH/g	- 0.06 -	
- Total Insolubles %wt	- 0.78 -	
- Wt loss %wt	- 3.0 -	
- Kv increase %	- 14.1 -	

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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