



BP Energol RC-RTM

Industrial Compressor Oil

Description

The Energol RC-R compressor oil range of lubricants are based upon highly refined mineral oils and carefully chosen additives. They are intended for the lubrication of rotary and reciprocating compressors.

Applications

The Energol RC-R grades are ashless oils recommended for the lubrication of rotors, bearings and gears in rotary compressors, especially the oil flooded screw type with delivery temperatures of up to 120°C.

Energol RC-R compressor oils exhibit low carbon forming tendencies and meet the requirements of the DIN 51506 VD-L classification for reciprocating compressors having air discharge temperatures up to 220°C.

Energol RC-R 32 and 46 are suitable for oil flooded rotary compressors, whilst Energol RC-R 68 and 100 would be selected for lubricating the crankcase and cylinders of reciprocating compressors. The appropriate grades of BP Energol RC-R in this range are suitable for both static and mobile systems, operating at ambient temperature ranging from -25°C to 50°C.

Selection of the required viscosity grade should be based upon the compressor manufacturers' recommendation.

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

Energol RC-R is classified as follows:

DIN 51506 VD-L

ISO 6743-3 Compressor Oils:

DAA and DAB for reciprocating air compressors

DAG for rotary air compressors

Energol RC-R grades meet the requirements of:

Atlas Copco (2000 hour oil)

Compair

Advantages

- Excellent water separation characteristics allows condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- Prevents corrosion when operating under humid conditions.
- Excellent coalescing properties mean little carry over of oil in the air stream.
- Low deposit forming tendencies extends oil change intervals and provides longer air filter life which contributes to a reduction in maintenance costs.
- Good thermal stability, low volatility and low carbon formation reduces the risk of fire and explosion.

Typical Characteristics

Test	Method	Unit	32	46	68	100	150
Density @ 15°C	ISO 12185 / ASTM D4052	g/ml	0.87	0.87	0.88	0.89	0.89
K.V @ 40°C	ISO 3104 / ASTM D445	mm ² /s	32	46	68	100	150
K.V @ 100°C	ISO 3104 / ASTM D445	mm ² /s	5.57	6.67	8.57	11.4	14.5
Viscosity Index	ISO 2909 / ASTM 2270	-	110	100	100	98	98
Foam Sequence I	ISO 6247 / ASTM D892	mls/mls	30/0	30/0	30/0	30/0	30/0
Pour Point	ISO 3016 / ASTM D97	°C	-21	-21	-21	-12	-9
Flash Point, PMC	ISO 2719 / ASTM D93	°C	216	222	222	243	246
Rust Test (24 hr synthetic sea water)	ISO / 7210 / ASTM D665B	-	Pass	Pass	Pass	Pass	Pass
Conradson carbon residue after aging	DIN 51352/2	%	0.7	0.7	0.7	<3.0	<3.0
RPVOT	ASTM D2272	mins	270	270	270	-	-

Additional Information

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.

Health & Safety Recommendations

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP International will not accept liability if the product is used other than in the manner or with the 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.

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

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Date Created: 16/08/2009 15.30

Last Modified: 16/08/2006 15.30