



Energol RC

Reciprocating Air Compressor Oil

Description; Description

Energol RC oils are produced from highly refined mineral oils and incorporate anti-oxidant, anti-corrosion and anti-foam additives,

The products in this range satisfy all requirements for oils of high oxidation stability, coupled with low carbon-forming tendencies.

Applications; Applications

Energol RC oils are recommended for the lubrication of reciprocating-type air-compressors. They are particularly suitable for compressors with high air-delivery temperatures - up to 220 °C - where oils of inferior quality would quickly deteriorate and leave carbonaceous deposits within the compressor and discharge system. Energol RC grades can also be used for drip-feed vane-type compressors that require oils with good oxidation stability and rust-inhibitors. In addition, Energol RC oils can be used in circulatory lubrication systems of plain and rolling bearings operating at high temperatures.

These oils fully meet the requirements of DIN 51 506, Category VD - L, covering the general performance of oils for reciprocating air compressors at air-discharge temperatures of up to 220 °C. The stringent requirements covering oxidation stability are defined by the test method DIN 51 352 Part 2 (Pneuop Oxidation Test - POT). This test simulates the oxidizing effects of the combination of high temperature, intimate exposure to air, and the presence of iron oxide, as a catalyst. All these factors are highly conducive to the chemical breakdown of oil, and the consequent formation of deposits that can lead to fires and explosions.

Main Benefits; Main Benefits

- Low deposit forming tendencies, aiding in extension of intervals between overhauls and increasing safety of operation

- Extended oil-change intervals contributing to reduction in maintenance costs

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

Health, Safety and Environment; Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety

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Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.; 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.

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.; BP Lubricants and Special Products Ltd. or its subsidiaries 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.

Typical Characteristics; Typical Characteristics

	Test Methods; Test Methods	Units; Units	Grade ; Grade :	Grade :	Grade :
			68	100	150
Density at 15 °C	ISO 3675, ASTM D1298	kg/m ³	880	884	897
Flash Point (PMC)	ISO 2795, ASTM D93	°C	209	224	245
Viscosity KV @ 40 °C	ISO 3105, ASTM D445	mm ² /s	68	98	145
100 °C			8.8	11.1	12.7
Viscosity Index	ISO 2909, ASTM D97	-	104	98	92
Pour Point	ISO 3016, ASTM D97	°C	-30	-30	-12
Neutralisation value	ASTM D 974	mgKOH/g	<0.10	<0.10	<0.10
Corrosion - rust protection	ISO 7210, ASTM D665B	-	pass	pass	pass
Foam Tendency/Stability:	ASTM D892, IP 146	ml			
Sequence I : 24 °C			50/0	<5/0	50/0
Sequence II: 93.5 °C			<5/0	<5/0	15/0
Sequence. III: 24 °C after Sequence II			50/0	<5/0	50/0
Demulse charact. at 54°C :	ISO 6614				
? Oil/Water/Emulsion	ASTM D1401	ml	40/38/	40/38/	-
? Time		min	2	2	-
Demulse charact. at 82°C :	ISO 6614		20	30	
? Oil/Water/Emulsion	ASTM D1401	ml			40/40/
? Time		min	-	-	0
			-	-	10
Conradson carbon residue	ASTM D189	%wt			
Conradson carbon res. - after ageing	DIN 51 352/2 -POT	%wt	0.01 1.0	<0.01 1.1	0.03 1.0

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

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Date Created: 11/02/1993 10:48:16 Last Modified: 04/10/2005