BP Enersyn RC-S Range

Synthetic rotary screw compressor lubricant

Product Data

Description

BP Enersyn™ RC-S compressor oil range of premium lubricants are based on polyalpha-olefin (PAO) fluids and are for use in rotary screw compressors.

Application

Enersyn RC-S is suitable for use in oil flooded rotary screw compressors operating under extreme climatic conditions, harsh environments and severe operating conditions where very high air discharge temperatures (>100°C) are experienced. These oils are also suitable for use in compressor units operating at normal operating conditions, with the maximum air discharge temperature =/< 100°C, as defined by ISO 6743-3:2003.

For normal operating conditions, these products can be used for extended drain intervals up to 8000 hours.

Energol RC-S range is fully compatible with nitrile, silicone, polyurethane and fluropolymer seal materials typically used in compressor units. It is not compatible with butadiene styrene (SBR) or ethylene propylene (EPDM) seals.

Enersyn RC-S is classified as follows:
ISO 6743-3 DAG, DAH and DAJ for rotary air compressors

Enersyn RC-S grades meet the requirements of: Atlas
Copco 8000 hour oil drain interval
Kaeser

Advantages

- Typical oil service life up to 8000 hours in most systems dependant upon operating environment.
- Very low deposit forming tendency, extends service life of filters and separators.
- Outstanding oxidation stability and antiwear performance leads to longer operating life and reduced lubricant cost.
- Ester-free formulation eliminates the formation of corrosive acids in the presence of water and high temperatures.
- Excellent water separation characteristics allow condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- PAO based lubricant means good compatibility with seals and mineral oil based lubricants.

Typical Characteristics

Test	Method	Unit	RC-S 32	RC-S 46	RC-S 68	RC-S 100
Density @ 15°C	ISO 12185 / ASTM D4052	g/ml	0.83	0.84	0.84	0.84
K.V @ 40°C	ISO 3104 / ASTM D445	mm^2/s	32	46	68	100
K.V @ 100°C	ISO 3104 / ASTM D445	mm^2/s	6.1	7.8	10.7	14
Viscosity Index	ISO 2909 / ASTM 2270	-	137	137	142	142
Foam Sequence I	ISO 6247 / ASTM D892	mls/mls	10/0	10/0	10/0	10/0
Pour Point	ISO 3016 / ASTM D97	°C	-54	-54	-54	-48
Flash Point, PMC	ISO 2719 / ASTM D93	°C	264	264	264	280
Rust Test (24 hrs synthetic sea water)	ISO 7210 / ASTM D665B	-	Pass	Pass	Pass	Pass
RPVOT	ASTM D2272	mins	4500	3000	3000	3000
FZG fail stage (A8.3/90)	ISO 14635-1 / DIN 51354	-	8	9	9	9

Subject to usual manufacturing tolerances.

Additional Information

The BP Enersyn RC-S range is classified as non-hazardous according to the criteria of Safe Work Australia. For further information please refer to separate Material Safety Data Sheet available on request. It is anon-Dangerous Good.

The BP Enersyn RC-S range is classified as C2 combustible according to AS 1940 for storage and handling purposes.

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