Product Data

Castrol Aircol SR Range

Synthetic Rotary Compressor Lubricant

Description

The Castrol Aircol™ SR compressor oil range of premium lubricants are designed for use in rotary screw compressors and are based on polyalphaolefin (PAO) fluids.

Application

Aircol SR 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.
Aircol SR 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.
Aircol SR is classified as follows:

- DIN 51506 classification - VDL
- ISO 6743/3 - DAG, DAH and DAJ for rotary air compressors

Aircol SR grades meet the requirements of:

- Atlas Copco 8000 hour oil drain interval
- Kaeser

Advantages

- Increased oil service life of typically up to 8000 hours in most systems, depending on the operating environment.
- Very low deposit forming tendency, extends service life of filters and separators.
- Outstanding oxidation stability and antiwear performance providing long lubricant and equipment life.
- Ester-free formulation eliminates the formation of corrosive acids leading to longer equipment life.
- 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, allowing changeover to Aircol SR without compatibility issues.

Typical Characteristics

Name	Method	Units	Aircol SR 32	Aircol SR 46	Aircol SR 68	Aircol SR 100
Density at 15°C	ISO 12185, ASTM D4052	g/ml	0.83	0.84	0.84	0.84
Kinematic Viscosity at 40°C	ISO 3104, ASTM D445	mm^2/s	32	46	68	100
Kinematic Viscosity at 100°C	ISO 3104, ASTM D445	mm^2/s	6.1	7.8	10.7	14
Viscosity Index	ISO 2909, ASTM D2270	-	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, COC	ISO 2592, ASTM D92	°C	264	264	264	280
Rust Test (24hrs, Synthetic Sea Water)	ISO 7210, ASTM D665B	-	Pass	Pass	Pass	Pass
RPVOT	ASTM D2272	Mins	4,500	3,000	3,000	3,000
FZG Fail Stage (A8.3/90)	ISO 14635-1, DIN 51354	-	8	9	9	9

Subject to usual manufacturing tolerances.

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