

PRODUCT INFORMATION

PERENNIAL SYNCOM FSSC SERIES (SYNTHETIC SCREW TYPE COMPRESSORS OIL)

DESCRIPTION

PERENNIAL SYNCOM FSSC is a premium polyalphaolefin synthetic base hydrocarbon fluids with high Viscosity Index and narrow distillation range of oil specially designed for modern high pressure, injected coolant screw-air compressors especially in unfavorable conditions in which other oils fail because they cause unacceptably high wear and allowing coke to form, thus leading to short oil service life.

PERENNIAL SYNCOM FSSC contains special ashless additives to impart outstanding anti-wear properties, anti-oxidation, corrosion protection, thermal stability, low sludge formation tendency and excellent demulsibility properties. Besides, it also has good anti-foam and air release properties. They are suited for use in compressors with high discharge temperatures, i.e. in excess of 85°C. They may be used for up to one year (8000+ hours) of continuous operation.

PERENNIAL SYNCOM FSSC Series oils meet specifications of Stringent DIN 51506 VD-L requirement include high resistance to oxidation and deposit formation as measured in 51352-1 oxidation test. In addition, they meet the Pneurop Oxidation test 51352-2 and low volatility requirement as measured in DIN51356. Besides, it also has a very good rust protection acc to ASTM D665 with synthetic sea water.

SPECIAL FEATURES:

- Extended oil change intervals, reducing servicing costs to a minimum.
- Reduced air separator blocking, and extended maintenance intervals.
- Excellent compatibility with seals, paints and the air line systems. / Excellent viscosity-temperature behavior
- Excellent oxidation stability and resistance to ageing
- Excellent dirt transportation and cleaning properties to have longer intervals between valve Cleaning.
- Optimum wear protection and good pressure absorption properties / Good compatibility with elastomers
- Low foaming and good air separation / Good corrosion protection for ferrous and non-ferrous metals
- Excellent demulsifying properties totally eliminates the problems associated with the formation of sludge or water in oil emulsions, improved inter and after cooler efficiency / Lower operating cost

APPLICATION

The SYNCOM FSSC Series of oils are recommended for use with flooded or injected coolant screw-air compressors which are from manufacturers like Atlas Copco, Ingersoll-Rand, Broom and Wade (Comair) and etc. As the viscosity of the oil should not be much less than 10 cSt if the screw compressor is to attain optimum performance, we recommend the use of SYNCOM FSSC 32 for oil temperatures under 85 °C and SYNCOM FSSC 46/68 for oil temperatures over 85 ° C. The correct viscosity grade should always be determined from instruction manual and Equipment Builders Books.

TYPICAL INSPECTION TESTS

Grade, ISO VG	10	32	46	68
Density, g/ml @ 15°C	0.820	0.840	0.840	0.850
Colour ASTM	L1.0	L1.0	L2.0	L2.0
Flash Point, COC, °C	175	220	245	245
Viscosity, cSt @ 40°C	10	32	46.1	68
CSSt @ 100°C	2.8	6.0	7.6	10.2
Viscosity Index	126	136	130	135
Neutralization No, mgKOH/g(DIN51558)	0.11	0.11	0.11	0.11
Sulphate Ash %mass (DIN51575)	<0.01	<0.01	<0.01	<0.01
Water Soluble content (DIN51582)		too low to measure		
Water Soluble acids		neutral		
Demulsifying Power (mins)	5	7	8	15
Air separation (mins)	2	2	3	4
Foam Test, ASTM Sequence I/II/III	Pass	Pass	Pass	Pass
FZG gear test (DIN51354)	12	12	12	12
4 Ball test (DIN51350)	0.40mm	0.40mm	0.40 mm	0.40mm
Pneurop ageing test(Conradson carbon residue)	0.23%	0.23%	0.20%	0.12%
Copper Strip Corrosion 3Hrs @ 100°C	1a	1a	1a	1a

The above details is typical and does not constitute a contract in terms of properties