4503 Synthetic Air Compressor Oil

4503 synthetic air compressor oil is blended with semi-synthetic base oil of special structure and high performance additive.

Advantages

- ◎ Outstanding oxidation stability and low tendency of carbon deposit, with long service life
- ◎ Small evaporation loss and low oil consumption
- ◎ Excellent viscosity-temperature and low temperature performance, ensuring easy startup in low temperature condition and good lubrication of compressor in high temperature condition
- ◎ Good oil-water separation ability and anti-foaming performance, rapidly separating water from oil condensed in air
- ◎ Good anti-rust and anti-corrosion performance, preventing parts of compressor from corrosion
- ◎ Good anti-corrosion performance, preventing part surface of compressor from abnormal wear

Applications

- ◎ Suitable for lubrication and sealing of low/moderate duty rotary air compressor in conditions of discharge temperature not larger than 130℃ and discharge pressure 1500kPa
- ◎ Lubrication of various reciprocating and centrifugal compressors

Typical properties

Items	4503 synthetic air compressor oil				
Viscosity grade	32	46	68	100	150
Kinematic viscosity (40℃), mm^2/s	30.64	44.09	67.10	95.62	151.2
Viscosity index	121	110	105	93	92
Pour point, ℃	−38	−36	−30	−27	−21
Flash point (COC), ℃	232	236	246	254	258
Anti-emulsification performance (40-37-3), min	5	5	7	8	10
Liquid phase rust test	No rust	No rust	No rust	No rust	No rust
Copper piece corrosion (100℃ × 3h), level	1b	1b	1b	1b	1b
Foam characteristics (foam tendency/stability), mL/mL 24℃ 93.5℃ Last 24℃	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0	 5/0 20/0 0/0	 10/0 20/0 0/0
Aging characteristics test (200C,250ml air/min, Fe_2O_3) Evaporation loss, % Conradson carbon residue increase, %	 8.12 0.21	 6.31 0.32	 5.40 0.45	 4.54 0.95	 3.72 1.22
Four-ball machine test (75℃C, 1200rpm) Diameter of wear spot (392N, 60min), mm	 0.47	 0.45	 0.45	 0.43	 0.43