



Cetus[®] PAO

Ultra high performance synthetic compressor fluids

Product description

Cetus PAO are ultra high performance synthetic compressor fluids based on a combination of polyalphaolefins with advanced additive technology.

Cetus PAO fluids are recommended for use in rotary screw compressors, single and multistage reciprocating units and single and multistage centrifugal compressors. Cetus PAO 68 also is suitable for the lubrication of turbochargers in marine diesel engines.

Customer benefits

- Robust oxidation stability promotes high temperature performance and protection
- Ultra high performance wear protection contributes to increased productivity and reduced equipment downtime
- Low pour point allows use in low temperature climates
- Good air release properties aid performance in oil flooded screw compressor applications
- Seal swell agents help protect against oil leaks
- Extended drain potential assists in downtime reduction

Product highlights

- **Robust oxidation stability**
- **Ultra high performance wear protection**
- **Low temperature applications**
- **Aids performance in oil flooded screw compressors**
- **Helps protect against oil leaks**
- **Extended drain potential**

Selected specification standards include:

ABB

DIN/VDL

Applications

- Cetus PAO is formulated to lubricate different air compressors, especially portable and stationary rotary and screw compressors as well as single-stage, two-stage, and multistage reciprocating compressors.
- While specific OEM recommendations vary, the ISO 32, 46 and 68 grades are most commonly used for rotary air compressors. While higher viscosity grades are preferred for reciprocating air compressors.
- Since reciprocating compressors require both a crankcase lubricant and a cylinder lubricant, Cetus PAO oils are formulated to meet this dual requirement.
- Cetus PAO 68 is specially developed for the lubrication of turbochargers in marine diesel engines, where two separate lubricating oil systems are in place.

Approvals, performance and recommendations

Approvals

Cetus PAO 68 is approved against:

- ABB VTR 4 turbochargers; fulfils requirements as a low friction lubricant for 5000 hour drain intervals, specially tested synthetic oils for heavily loaded turbochargers

Performance

- DIN 51 506 VDL standard

Typical test data

Test	Test methods	Results			
Viscosity Grade		32	46	68	150
Kinematic viscosity at 40°C, mm ² /s	ASTM D445	32	46	68	150
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	5.9	8.1	10.3	18.9
Viscosity Index	ASTM D2270	134	136	141	143
Flash Point COC, °C	ASTM D92	245	232	240	266
Pour Point, °C	ASTM D5950	<-60	-57	-52	-43
Density at 15°C, kg/l	ASTM D4052	0.873	0.842	0.845	0.852
Copper corrosion (3 h, 100 °C)	ASTM D130	1A	1B	1A	1A

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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