



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, where an ISO 46 grade lubricant is required. Cetus PAO 68 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 46 is designed for the lubrication of oil-injected rotary screw compressors operating at high discharge temperatures (>100°C) and discharge pressures (>15 bar)
- Cetus PAO 46 offers extended drain intervals of up to 8000 hours for screw compressors
- Cetus PAO 68 has been developed for the lubrication of turbochargers in marine diesel engines, where two separate lubricating oil systems are in place. This product will allow extended drain intervals of up to 5000 hours in ABB VTR.4 turbochargers
- Cetus PAO 68 is also recommended for the lubrication of reciprocating air compressors operating at high discharge temperatures (> 200°C)

Approvals, performance and recommendations

Approvals

Cetus PAO 68 is approved against:

- ABB for VTR.4-4-010 turbochargers; fulfils requirements as a low friction lubricant for 5000 hour drain intervals, specially tested synthetic oils for heavily loaded turbochargers

Performance

- DIN 51506 VDL standard

Typical test data

Test	Test methods	Results		
Viscosity Grade		32	46	68
Product Code		2021	2022	2023
Kinematic viscosity, 40 °C, mm ² /s	ASTM D445	32	46	68
Kinematic viscosity, 100 °C, mm ² /s	ASTM D445	5.9	8.1	10.3
Viscosity Index	ASTM D2270	134	136	141
Flash Point COC, °C	ASTM D92	245	232	240
Pour Point, °C	ASTM D5950	<-60	-57	-52
Density, 15 °C, kg/l	ASTM D4052	0.873	0.842	0.845
Copper corrosion (3h, 100 °C)	ASTM D130	1A	1B	1A
Foam Seq. I (after blowing), ml	ASTM D892	0	0	0
Foam Seq. I (after 10' standing), ml	ASTM D892	0	0	0

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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