Cetus PAO

Premium performance synthetic compressor fluids

Product description

Cetus PAO are a range of premium performance synthetic compressor fluids, designed to meet the requirements of modern higher output, more efficient air compressors, where speeds and temperatures are higher, increasing deposit formation. Cetus PAO are recommended for use in rotary screw compressors, single and multistage reciprocating units, and single and multistage centrifugal compressors.

Cetus PAO fluids are formulated with an advanced combination of polyalphaolefins with advanced additive technology, offering good hydrolytic stability, high viscosity index, improved thermal and mechanical efficiency, lower coefficients of friction, high thermal stability, and excellent heat-transfer properties.

Customer benefits

- Promotes high temperature performance and protection through robust oxidation stability.
- Premium wear protection performance helps contribute to increased productivity and reduced equipment downtime.
- Low pour point offers good protection 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

- **Promotes high temperature performance and protection**
- **Premium wear protection performance**
- **Low pour point**
- **Good air release properties**
- **Seal protection to help prevent oil leaks**
- **Extended drain capabilities**

Selected specification standards include:

ABB	Daimler Truck
DIN	GB
ISO	Knorr-Bremse

Applications

Cetus PAO oils are formulated to provide excellent lubricating qualities for many air compressors, especially portable and stationary rotary, and screw compressors as well as single-stage, two-stage, and multistage reciprocating compressors.

By using a synthetic compressor oil, efficiency improvements up to 5% in comparison with mineral oil-based products can be expected.

While specific OEM recommendations vary, the ISO 46 and 68 grades are most 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.

Cetus PAO 46 is used in Knorr-Bremse sliding vane compressors.

Cetus PAO 68 is used in Knorr-Bremse rotating vane compressors.

Cetus PAO 68 is suitable for the lubrication of turbochargers in marine diesel engines.

Cetus PAO 68 can be used for vacuum pumps GPM 65 ATEX II 2G IIB 4, from Axlow LTD.

Approvals, performance and suitable for use

	46	68
DIN 51 506	M	M
ISO 6743-3: ISO-L-DAG, DAH	M	M
ISO 6743-3: ISO-L-DAA, DAB		
ISO 6743-3: ISO-L-DGA	M	M
ISO 6521-1: ISO-L-DAA, DAB	M	M
GB 12691:L-DAA, L-DAB	M	M
Knorr-Bremse EDAC K248470N01	**A**	
Daimler Truck Approval DTFR 32B100	**A**	
ABB VTR 4 turbochargers fulfils requirements as a low friction lubricant for 5000 hour drain intervals, specially tested synthetic oils for heavily loaded turbochargers		M

A: Approved for

M: Performance: Meets or exceeds requirements

Product maintenance and handling

Avoid any spillage of used and unused product to the environment. Product residue and package/container should be disposed of in dedicated collection points.

Typical test data

Test	Test methods	Results	
Typical Shelf Life: 60 months from date of filling indicated on the product label			
Viscosity Grade		**46**	**68**
Kinematic viscosity at 40°C, mm²/s	ASTM D445	46	68.01
Kinematic viscosity at 100°C, mm²/s	ASTM D445	8.1	11.63
Viscosity Index	ASTM D2270	136	167
Flash Point COC, min, °C	ASTM D92	232	240
Pour Point, °C	ASTM D5950	-57	-52
Density at 15°C, kg/l	ASTM D4052	0.842	0.843
Copper corrosion (3 h, 100 °C)	ASTM D130	1B	1B

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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