



Premium performance, synthetic compressor oil based on polyalphaolefin technology and containing a rust and oxidation inhibitor system and anti-wear additive to give oxidation resistance and corrosion protection plus minimizing wear under severe operating conditions. They are available in ISO grades 46 and 68.

APPLICATIONS

- Flooded screw compressors
 - Rotary air compressors.
 - Reciprocating air compressors.
 - Medium-speed marine diesel engine turbochargers.
- Do not use in breathing air compressors or medical equipment.

BENEFITS

- **Extended oil service life**
Oxidation stability of the polyalphaolefin base fluid and inhibitor system resists oil breakdown at the elevated temperatures encountered in compressor service, permitting oil drain intervals to be extended beyond those achieved with conventional lubricants.
- **Protects equipment**
Polyalphaolefin base fluid helps to provide an effective oil film to protect highly loaded parts against wear under high temperature operating conditions, as well as during low temperature start-up. Effective inhibitor system provides excellent rust and corrosion protection. Anti-wear additive minimizes wear under severe operating conditions.
- **Smooth operation**
Thermal and oxidation stability enables the polyalphaolefin lubricant to resist deposit formation in the heat of the compression cycle, even under severe service conditions.
- **Extended range of applications**
High viscosity index and low pour point of the polyalphaolefin base fluid permits application in a wider range of ambient operating temperatures compared with conventional lubricants.

PERFORMANCE STANDARDS

DIN	51506 VDL
ABB approval for VTR.4 turbochargers with rolling-contact bearings, per VTR.4-4-010, as a specially tested synthetic oil for heavily loaded turbochargers, up to 5,000 hour drains (ISO 68).	

Cetus PAO has been used successfully in the lubrication of many types of air compressors, including Atlas Copco units.



TYPICAL CHARACTERISTICS

Product Code	1632	1633
ISO Grade	46	68
Density at 15°C, kg/L	0.84	0.85
Flash Point, COC, °C	232	240
Pour Point, °C	-57	-52
Viscosity, at 40°C, mm ² /s at 100°C, mm ² /s	46 8.1	68 10.3
Viscosity Index	136	141

PACK SIZES

208L, 20L

ISO 46 is also available in 1000L and 5L.

SERVICE CONSIDERATIONS

Cetus PAO is designed to meet the requirements of modern higher output, more efficient compressors, particularly flooded screw air compressors. In flooded screw compressors, as well as some other rotary air compressors, the lubricant is subjected to the high temperatures produced by compression whilst also being mixed with the air being compressed. The higher temperatures encountered in rotary air compressors and the mixture of the air with the lubricant within the compressor means that oxidation of the lubricant significantly reduces the useful life of mineral oil based compressor lubricants. Cetus PAO is specifically formulated to provide excellent oxidation resistance under the conditions encountered in flooded rotary air compressors, i.e. high temperatures and exposure to the compressed air.

Cetus PAO is compatible with conventionally formulated mineral oil based and diester based lubricants, although excessive dilution with petroleum product will reduce the thermal and oxidation stability of the synthetic polyalphaolefin lubricant. Close monitoring of the compressor lubricant is advised after conversion from a mineral oil based lubricant. It is expected that non-metallic components used for mineral oil based lubricated equipment will be compatible with Cetus PAO, however where doubt exists the equipment manufacturer should be consulted concerning compatibility with polyalphaolefin based lubricants.

Cetus PAO is not compatible with polyalkylene glycol or silicone based compressor lubricants, nor is it recommended for the compression of hydrocarbon gases.

ENVIRONMENT, HEALTH AND SAFETY

Should not be used for the processing of air used in breathing apparatus.

Users should consult the MSDS, follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.



OTHER INFORMATION

For further information on Caltex products and services call the Lubelink Advisory Service on 1300 364 169 between 8.00am and 6.00pm (EST) Monday to Friday.

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