High Performance Compressor Oils





Product description

Cetus VDL formulated with VARTECH™ Technology, are a range of high-performance compressor lubricants, blended with high quality paraffinic base oils and an additive system designed to promote oxidation resistance, corrosion protection and a robust varnish deposit control performance.

The Cetus VDL range is designed for air compressors, especially portable and stationary rotary, vane, screw, and piston compressors. They can provide oil maintenance intervals of over 4000 hours for rotary air compression applications.

Customer benefits and product features

Customer benefits

Potential maintenance and downtime savings

VARTECH™ Technology reduces varnish formation to help maintain peak performance, reliability, and productivity throughout the oil's service life. It helps reduce the build-up of harmful deposits on critical areas such as valves and bearings, hence maintaining compressor performance under severe operating conditions.

• Enhanced equipment protection

Effective corrosion inhibition helps protect against rust and corrosion caused by high operating temperatures or moisture entering the system, particularly during shutdown and intermittent operation.

Operational Reliability

Exceptional Oxidation and Thermal Stability assists with long service life resisting oil breakdown at high discharge temperatures with Minimal Deposit Formation.

Product features

- Cetus VDL delivers stable high temperature oxidation resistance and is designed for reduced deposit
 formation on rotary screw and piston compressors, its advanced formulation provides excellent
 corrosion protection, foam inhibition, and extreme pressure performance, to ensure reliable
 performance throughout its service life.
- Cetus VDL provides demulsibility performance and helps minimize entrained air, which could otherwise result in reduced lubricant film thickness and potentially lead to pump cavitation.

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Applications

Cetus VDL is recommended for:

- Single-stage and multi-stage reciprocating and centrifugal compressors, and oil flooded screw compressors
- · Air, compressed natural gas (CNG) and inert gas, single-stage and multi-stage reciprocating compressors
- · Stationary, semi-portable and portable units
- Bath and circulating systems supplying rolling element bearings of all types, lightly loaded gear sets, vacuum
 pumps (including rotary vacuum pumps used in the dairy farming industry), machine tools (including computercontrolled units), conveyors, electric motors, and low to moderate pressure hydraulic pumps where anti-wear
 properties are not required

Not recommended for use in breathing air compressors.





Product approvals, performance and recommendations

| CETUS VDL | ISO 32 | ISO 46 | ISO 68 | ISO 100 | ISO 150 |
|--|--------|--------|--------|---------|---------|
| DIN 51 506: VDL | М | М | М | М | М |
| ISO 6743-3: ISO-L-DAG, DAH | М | М | М | - | - |
| ISO 6743-3: ISO-L-DAA, DAB | - | - | - | М | М |
| ISO 6743-3: ISO-L-DGA | М | М | М | М | М |
| ISO 6521-1:ISO-L-DAA, DAB | М | М | М | М | М |
| GB 12691: L-DAA, L-DAB | М | М | М | М | М |
| Atlas Copco, air compressors | - | S | S | - | - |
| DongHwa Pneutec | - | - | - | S | - |
| Hamworthy, air compressors | - | - | - | S | - |
| Hatlapa, W-type, L-type, V-line piston compressors | - | - | - | S | - |
| Howden, air compressors | - | - | - | S | - |
| Ingersoll Rand, air compressors | - | S | S | - | - |
| Kaeser, air compressors | - | S | - | - | - |
| Kaishan, air compressor | - | S | - | - | - |
| Sauer, air compressors | - | - | - | S | - |
| Sperre, Classic 30 bar reciprocating air compressors | - | - | - | S | - |
| Tanabe Pneumatic Machinery, reciprocating type compressors | - | - | - | S | - |
| Tanabe Pneumatic Machinery, air screw compressors | S | S | S | - | - |
| Teikoku, air compressors | s | S | S | S | S |

M: Meets the Requirements

S: Suitable for Use

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Typical Test Data

| CETUS VDL | RESULTS | | | | | | |
|--------------------------------------|---------|--------|--------|--------|--------|--|--|
| ISO Grade | 32 | 46 | 68 | 100 | 150 | | |
| Product Code | 540621 | 540622 | 540623 | 540624 | 540625 | | |
| Viscosity, | | | | | | | |
| mm²/s @ 40°C | 32 | 46 | 68 | 100 | 150 | | |
| mm²/s @ 100°C | 5.5 | 6.9 | 8.9 | 11.5 | 15.0 | | |
| Viscosity Index | 108 | 106 | 104 | 103 | 100 | | |
| Flash Point, COC, °C | 220 | 236 | 248 | 258 | 284 | | |
| Pour Point, °C | -36 | -36 | -36 | -34 | -27 | | |
| Color | 1 | 1 | 1 | 1 | 2 | | |
| Acid Number, D974, mg KOH/g | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | | |
| Copper Corrosion, 3h 100°C | 1b | 1b | 1b | 1b | 1b | | |
| Density, 15°C, kg/L | 0.86 | 0.87 | 0.87 | 0.87 | 0.88 | | |
| Foam Tendency/Stability, Seq I ml/ml | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | | |
| RPVOT, minutes | 1800 | 1800 | 1800 | 1800 | 1000 | | |
| FZG Fail load stage | 12 | 12 | 12 | 12 | 12 | | |

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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