Cetus VDL

High Performance Compressor Oils

Product description

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

The Cetus VDL range is designed for air compressors, especially portable and stationary rotary, vane, screw, and piston compressors. They can help 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 is designed to reduce varnish formation and help limit the build-up of harmful deposits on critical components such as valves and bearings, helping to maintain compressor performance under severe operating conditions. This can support peak performance, reliability, and productivity throughout the oil's service life.

- **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**
  Oxidation resistance and thermal stability help provide long service life by resisting oil breakdown at high discharge temperatures while minimizing deposit formation.

Product features

- Cetus VDL helps deliver stable high temperature oxidation resistance and is designed for reduced deposit formation on rotary screw and piston compressors. Its formulation provides excellent corrosion protection, foam inhibition, and extreme pressure performance, to promote 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 by Chevron 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 computer-controlled 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.

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Product approvals, performance and recommendations

CETUS VDL	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150
DIN 51 506: VDL	M	M	M	M	M
ISO 6743-3: ISO-L-DAG, DAH	M	M	M	-	-
ISO 6743-3: ISO-L-DAA, DAB	-	-	-	M	M
ISO 6743-3: ISO-L-DGA	M	M	M	M	M
ISO 6521-1:ISO-L-DAA, DAB	M	M	M	M	M
GB 12691: L-DAA, L-DAB	M	M	M	M	M
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	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 Safety Data Sheet (SDS) 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 an SDS 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.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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