



Tribol™ CS 1555 Range

Synthetic compressor oils

Description

Castrol Tribol™ CS 1555 (previously called Tribol™ 1555) is a range of compressor oils specially developed for oil lubricated screw compressors. They exceed the requirements of the DIN 51506 specification for VDL type compressor oils.

The Tribol CS 1555 Range is formulated using synthetic PolyAlphaOlefin (PAO) base oils and advanced technology additive systems.

Application

Tribol CS 1555 may be used in all types of oil lubricated compressors such as screw-type, rotary vane and turbo compressors.

They may be used for the compression of air, as well as inert gases and hydrocarbon gases.

Advantages

Tribol CS 1555 offers the following advantages when compared to more conventional compressor oils:-

- Extremely low tendency to form carbon deposits which, depending on operating conditions, can promote longer valve life and safer operating conditions as well as a considerable decrease in fire and explosion hazards
- Reduced maintenance costs achieved through an increase of service life and reduced downtime periods
- Compatibility with most commonly used seals and coating materials means no additional changeover cost incurred with a change of seals or hose connections
- High oxidation stability and corrosion stability increases life of lubricants and equipment
- Excellent viscosity-temperature characteristics when compared to mineral oil based compressor oils - allows start-up at low temperatures and enables a sufficient lubricant film at high temperatures
- Very good air release properties and water separation abilities promote higher operating efficiency
- Tribol CS 1555 oils exceed the requirements of DIN 51506 and VDL-HC oils specifications

Additional Information

Viscosity selection should always be based on recommendations of compressor manufacturers.

Tribol CS 1555 is miscible with mineral based oils. However, because of the higher coking tendency of mineral oil based products, it is recommended to remove mineral oil residues to maximise the product performance.

Typical Characteristics

Name	Test Method	Units	1555/32	1555/46	1555/68
ISO Viscosity Grade	-	-	32	46	68
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	830	840	840
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	32	46	68
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	6.0	7.9	10.4
Viscosity Index	ISO 2909 / ASTM D2270	-	135	140	140
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	>240/ 464	>240 / 464	>240/ 464
Pour Point	ISO 3016 / ASTM D97	°C/°F	-60/-76	-54/-65	-51/-60
Air Release @ 50°C / 122°F	ISO 9120 / ASTM D3427	min	1	1	1
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	min	10	10	10
FZG Gear Scuffing test - A/8.3/ 90	ISO 14635-1	Failure Load Stage	9	9	9
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0	10/0	10/0
Foam Sequence II - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0	10/0	10/0
Foam Sequence III - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0	10/0	10/0
DIN Specification	DIN 51506	-	VDL 32	VDL 46	VDL 68

Subject to usual manufacturing tolerances.

This product was previously called Tribol 1555 Range. The name was changed in 2015.

Tribol™ CS 1555 Range

07 Oct 2022

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>