Magna™ CL Range

Gas Compressor Lubricant

Description

The Castrol Magna™ CL Range (previously called Castrol Cresta™ VA range and Cresta™ SHS) is formulated with high quality mineral base oils, with the addition of friction and lubricity modifiers to increase the film strength and reduce friction. Water is thoroughly emulsified by the additives in Magna CL to resist wash-off from metal surfaces, helping to prevent corrosion and wear when moisture is present.

Magna CL 1000 is formulated from selected base cylinder stocks to achieve the desirable characteristics of high flash point and oxidation stability. It possess good demulsibility, which means for the lubrication of the cylinders of high speed, totally enclosed steam engines, it does not materially reduce the demulsibility of the crankcase oil.

Application

- Cylinder and Packing lubrication on reciprocating gas compressors when compressing natural gas below its dew point.
- Cylinder lubricant for reciprocating steam engines operating with wet (non-superheated) steam.
- Higher viscosity products from Magna CL range can also be used in worm gearboxes.

Magna CL 1000 is designed for lubrication of steam engine cylinders and valves. It is also suitable for other purposes , such as the lubrication of heavily loaded slow-moving bearings and gears. It is also suitable for condensing engines using high pressure steam up to 200psi and superheat up to 345°C/653°F.

Typical Characteristics

Name	Method	Units	Magna CL 150	Magna CL 220	Magna CL 320	Magna CL 460	Magna CL 680	Magna CL 1000
Appearance	Visual	-	Straw Viscous Liquid	Brown Viscous Liquid	Brown Viscous Liquid	Dark Viscous Liquid	Dark Viscous Liquid	Dark Viscous Liquid
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	889	889	890	910	920	940
Kinematic Viscosity at 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	150	220	320	460	680	1000
Kinematic Viscosity at 100°C/ 212°F	ISO 3104 / ASTM D445	mm²/s	13.6	17.7	23.2	28.7	38	44
Viscosity Index	ISO 2909 / ASTM D2270	-	83	86	86	88	88	80
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	243 / 469	255 / 491	261 / 502	267 / 513	267 / 513	-
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	-	-	-	-		260 / 500
Pour Point	ISO 3016 / ASTM 97	°C/°F	-9 / 16	-9 / 16	-6 / 21	-3 / 27	-3 / 27	-

Subject to usual manufacturing tolerances.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 600C, exposed to hot sun or freezing conditions.

This product was previously called Cresta VA and Cresta SHS. The name was changed in 2015.