

Perfecto XEP 46

Premium antiwear turbine lubricant

Description

Castrol Perfecto XEP 46 turbine oil is formulated from severely hydro treated premium mineral base stocks together with a complex additive system to provide requisite anti wear performance and oxidative stability

Application

Perfecto XEP 46 is primarily intended for the lubrication of highly loaded industrial gas turbines, aero derivative power turbines & driven machinery and turbo machinery where the lubricant is exposed to high local temperatures during operation and the heat soaking period during run down.

Perfecto XEP 46 possesses the requisite air release, foaming and water separation properties for steam turbines making them suitable and compliant for gas and steam turbines in single train sharing a common oil reservoir.

Perfecto XEP meet or exceed the requirements of:

- BS 489 1999
- DIN 51515 Part 1(L-TD) & Part 2
- General Electric GEK
 - GEK 32568E
 - GEK 32568G H & J
 - GEK 101941A
 - GEK 107395A
 - GEK 28143A
 - 46506E
- General Electric Oil & Gas
 - ITN 52220.02
 - ITN 52220.03
- Alstom HGTD 90117 V
- Siemens TLV 9013 04 & 05
- Solar ES9-224U
- Man Turbo SPD10000494596

Product Performance Claims

- Meets or exceeds a wide range of both steam and gas turbine specifications
- Designed for a wide range of applications making it possible to rationalise grades without risk of misapplication
- Excellent thermal / oxidation stability
- Good water separation and corrosion inhibition performance

Typical Characteristics

Name	Method	Units	Perfecto XEP 46
ISO Viscosity Grade	-	-	46
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	863
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	46
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	7.0
Viscosity Index	ISO 2909 / ASTM D2270	-	108
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0
Air Release @ 50°C / 122°F	ISO 9120 / ASTM D3427	minutes	2
Demulsification - Steam method	IP 19	seconds	95
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	minutes	10
Pour Point	ASTM D5950	°C (°F)	-15 (5)
Flash Point - open cup method	ISO 2592 / ASTM D92	°C (°F)	>220 (>428)
Acid Number	ISO 6619 / ASTM D664	mgKOH/g	0.1
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	rating	Pass
Copper corrosion (3 hrs@100°C/ 212°F)	ISO 2160 / ASTM D130	rating	1b
Oxidation Stability - Rotating Pressure Vessel test	ASTM D2272	minutes	1300
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1 / ASTM D5182	Failure Load Stage	10

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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 60°C, exposed to hot sun or freezing conditions.

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