

Perfecto XEP Range

Premium antiwear turbine lubricant

Description

The Castrol Perfecto XEP range of turbine oils 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

The Perfecto XEP range 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.

The Perfecto XEP range possess 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.

Specific Grades within the Perfecto XEP range 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

Advantages

- 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 32	Perfecto XEP 46
Density @ 15°C	ISO 12185 / ASTM D4052	kg/m ³	849	860
Kinematic Viscosity @ 40°C	ISO 3104 / ASTM D445	mm ² /s	32	46
Kinematic Viscosity @ 100°C	ISO 3104 / ASTM D445	mm ² /s	5.7	7.1
Viscosity Index	ISO 2909 / ASTM D2270	-	112	112
Foam Sequence I, tendency / stability	ISO 6247 / ASTM D892	ml	10/0	10/0
Air Release @ 50°C	ISO 9120 / ASTM D3427	mins	2	2
Demulsification	IP 19	seconds	60	60
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	min	< 30	< 30
Pour Point	ISO 3016 / ASTM D97	°C	-15	-15
Flash Point - Closed cup method	ISO 2592 / ASTM D92	°C	222	234
Acid Number	ISO 6619 / ASTM D664	mg KOH/g	0.05	0.05
Rust Test - Synthetic Sea Water (24 hrs)	ISO 7210 / ASTM D665B	-	Pass	Pass
Oxidation Stability - RPVOT	ASTM D2272	minutes	> 1000	1200
Copper Corrosion - (3 hrs at 100°C)	ISO 2160 / ASTM D130	-	1 max	1 max
Oxidation Stability - TOST	ISO 4263-1 / ASTM D943	hours	>10000	>10000
FZG Gear Scuffing Test (A/8.3/90)	ISO 14635-1	FLS	9	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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