



Castrol Perfecto XPG Range

Premium Quality Industrial Turbine Oil

Description

Castrol Perfecto™ XPG is a range of high performance mineral oil based lubricants with a high degree of thermal and oxidative stability and also with enhanced load carrying properties. Perfecto XPG is intended primarily for the lubrication of large gas turbines, but its use should also be considered in any large items of rotating equipment where a long lubricant life and clean operation is desired to maximise equipment availability.

Castrol Perfecto XPG also possesses excellent air release properties and resistance to foaming in addition to good water separation performance which is required for the lubrication of steam turbines, making it suitable for Combined Cycle generating systems where steam and gas turbines share a common oil supply.

Application

- Industrial Gas turbines
- Steam Turbines
- Turbo Compressors
- Electric motor bearings
- Alternator bearings

Advantages

Castrol Perfecto XPG 32 and 46 are based upon hydrotreated base oils with an additive system designed to provide high resistance to oxidation and additional load carrying performance for geared turbines. This high resistance to oxidation ensures long oil life and reduces deposit formation and lacquering within the turbine lubrication system

- Lower operating costs through long life.
- Reduced deposit / lacquer formation ensures reliability.
- Reduced gear wear in systems incorporating gear boxes.
- Security of supply, wherever you operate.

Typical Characteristics

Name	Method	Units	Perfecto XPG 32	Perfecto XPG 46
ISO Viscosity Grade	-	-	32	46
Kinematic Viscosity at 40°C	IP71, ASTM D445	mm ² /s	32	46
Kinematic Viscosity at 100°C	IP71, ASTM D445	mm ² /s	5.7	7.1
Viscosity Index	IP226, ASTM D2270	-	111	111
Relative Density at 20°C	IP15, ASTM D4052	kg/m ³	0.850	0.860
Pour Point	IP15, ASTM D97	°C	-15	-15
Closed Flash Point	IP34, ASTM D93	°C	220	230
Neutralisation	IP139, ASTM D974	mgKOH/g	0.05	0.05
Air Release Value at 50°C	IP313	Mins	2	2
Demulsification	IP19	Secs	60	60
Foaming Properties, Seq 1, 24 °C	IP146, ASTM D892	ml	10/0	10/0
Foaming Properties, Seq 2, 93.5 °C	IP146, ASTM D892	ml	20/0	20/0
Foaming Properties, Seq 3, 24 °C	IP146, ASTM D892	ml	10/0	10/0
Rust Prevention, Distilled Water	IP135, ASTM D665	-	Pass	Pass
Rust Prevention, Sea Water	IP135, ASTM D665	-	Pass	Pass
Copper Corrosion, 3 hrs at 150°C	IP154, ASTM D130	Class	1b	1b
TOST hours to 2.0	IP157, ASTM D943	mgKOH/g	>10000	>10000
Rotating Bomb Oxidation Test	IP229, ASTM D2272	mins	1100	1100
FZG Gear Test, Fail Stage	DIN 51354	-	9	10

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

Additional Information

Performance Levels & OEM Approvals

- British Standard BS 489:1983
- Deutch Industrie Normen DIN 51515
- Alstom HTGD 90 117
- Siemens TLV 9013
- General Electric GEK 32568F and GEK 101941

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