

Perfecto T 32 N

Turbine Lubricant

Description

Castrol Perfecto™ T 32 N is based on highly refined mineral oils, with selective additives to improve their inherent high oxidation stability and to protect against corrosion of ferrous and non-ferrous metals.

Application

Castrol Perfecto T 32 N is designed primarily for the lubrication of steam turbines and compressors where the application involves the compressing of ammonia gas. The base oils have been selected to give the essential characteristics of resistance to foaming and the good air entrainment properties. In addition the additives are specially designed to work in an ammonia / urea environment where normal turbine / compressor oils may give rise to deposition of solids.

Advantages

- Castrol Perfecto T 32 N exhibits excellent stability and long life in the lubrication systems of steam and in compressors operating on ammonia gas. Ensures long life of oil / ammonia seals.
- The oil will provide protection to the operating system in aggressive environments where heat, air, moisture and metal catalysts can all contribute to oil degradation.

Typical Characteristics

Name	Method	Units	Perfecto T 32 N
ISO Viscosity Grade	-	-	32
Density @ 20°C / 68°F	ISO 12185 / ASTM D4052	kg/m ³	870
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	32
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	5.3
Viscosity Index	ISO 2909 / ASTM D2270	-	96
Pour Point	ISO 3016 / ASTM D97	°C/°F	-15 / 5
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	216 / 421
Acid Number	ISO 6618 / ASTM D974	mgKOH/g	0.10
Air Release @ 50°C / 122°F	ISO 9120 / ASTM D3427	min	3
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	min	10
Demulsification - Steam method	IP 19	sec	60
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	20/0
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	Rating	Pass
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass

Name	Method	Units	Perfecto T 32 N
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Rating	1
Oxidation Stability - TOST	ISO 4263-1 / ASTM D943	hrs	3,000

Subject to usual manufacturing tolerances.

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