



Perfecto THZ Range

Gas turbine lubricant

Description

The Castrol Perfecto THZ Range is zinc based, based upon highly refined mineral oils, selected for their inherent high oxidation stability and resistance to sludge formation, further reinforced by oxidation inhibitors chosen to give maximum protection at high temperatures. This high oxidation stability ensures long oil life and minimizes deposit formation and lacquering within the turbine lubrication system.

Application

Castrol Perfecto THZ Range are high performance turbine oils, specifically developed for Industrial gas turbines where the lubricant is likely to be exposed to very high local temperatures. The Castrol Perfecto THZ Range is zinc based, possess the good water and air separation properties and resistance to foaming which is required for the lubrication of steam turbines, making it the preferred choice for Combined Cycle generating systems where the steam and gas turbines share a common oil supply.

Advantages

- Excellent thermal stability leads to long oil life.
- Suitable for the lubrication of steam as well as gas turbines, allowing the use of one oil for Combined Cycle generating systems
- Compatible with all paints, seals and metals commonly used in turbine lubrication systems ensuring that there is no need to change seals or components when changing to this oil

Typical Characteristics

Name	Method	Units	THZ 32	THZ 46	THZ 68
Air Release	IP 313	minutes	2.6	3	4.5
Appearance	Visual	-	bright & Clear	bright & Clear	bright & Clear
Colour	ASTM D1500	-	L1.0	L1.0	L1.0
Density @ 20C	ASTM D4052	g/ml	0.8535	0.8571	0.8614
Demulsification (IP 19)	IP 19	seconds	225	225	225
Demulsification 54°C, mins to 0 mL	ASTM D1401	minutes	10	10	10
Viscosity, Kinematic 100C	ASTM D445	mm ² /s	5.73	7.13	9.26
Viscosity, Kinematic 40C	ASTM D445	mm ² /s	33.05	46.01	69.25
Viscosity Index	ASTM D2270	None	115	114	110
Particle Count	ISO 4406		-/17/14	-/17/14	-/17/14
Pour Point	ASTM D97	°C	-18	-15	-12
Rotating bomb	IP 229	minutes	550	550	570
Acid Number, Total (Potentiometric)	ASTM D 974	mg KOH/g	0.18	0.18	0.18
Zinc, % wt	IP 308	% wt	0.009	0.009	0.009

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 damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing condition

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