

Goldenstone® Tpx 32, 46, 68

Technical Data Sheet (TDS)

Power generation oils

Description and Application

GOLDENSTONE® Tpx turbine oils are formulated from highly refined hydrotreated lube base stocks blended with a special ashless additive package. The ready lubricants provide very good oxidation stability, reliable corrosion protection and good anti-wear properties and meet and exceed the requirements of leading OEMs such as MAN, Alstom, Siemens, GE, etc.

GOLDENSTONE® Tpx turbine oils are available in three ISO 3448 VGs, namely 32, 46 & 68.

GOLDENSTONE® Tpx turbine oils are developed for the lubrication of steam and gas turbines, operated under high loads and extreme temperatures. They are especially designed for the lubrication of gas turbines and compressor units with a common (combined) lubricating system, demanding lubricants with mild EP properties. They meet and exceed the stringent requirements of MAN, Alstom, Siemens, GE and ASTM demanding oils passing minim 8th load stage of FZG test.

These turbine oils are also suitable for synthesis gas and ammonia compressors as well as water turbines, calling for lubricants of category TSA according to ISO 6743-5.

Their improved corrosion performance in synthetic sea water makes these turbine oils suitable for application in on-board compressors and turbines in different vessels as well as other auxiliary ship equipment. Baths and circulating systems, oil-lubricated bearings of different types, from moderately to medium loaded assemblies and hydraulic systems under low to moderate pressures are among other typical applications.

Benefits

- Extremely higher oxidation stability
- Maximum resistance to degradation
- Very good anti wear properties

Specifications

ISO 3448	VG 32, 46, 68
БДС ISO 6743-5	ISO L-TSA, TGA
ISO 8068: 2006	L-TSE, L-TGE
DIN 51515	Чаcт 1 (L-TD), Part 2(L-TG)
British Standard	489
ASTM D 4304	Type I
GEC Alstom	NBA P50001A & NBA P50003 A

Siemens gas turbines	SGT 200 AR-M350_20111017_135639 P=6750 KW, 11053 RPM
Siemens TLV	9013 04 with and w/o gearsets, MAT81 21 01 & 81 21 02(former ABB)
ABB	HTGD 90117
Fiat Avio	TS 5001
Atlas Copco	790.21.2E
GEK	27070, 46506, 28143 A, 32568 F, 101941A
Skoda Power	Tp0010P
MAN Turbo	TQL-T2
Solar	ES9-224 (Class II)

Typical Characteristics

Parameter	Test Method	Typical Value		
		Tpx 32	Tpx 46	Tpx 68
Density at 20°C, g/cm ³	EN ISO 3675	0.860	0.862	0.870
Kinematic viscosity at 40°C, mm ² / s	EN ISO 3104	32	46	68
Viscosity Index	ISO 2190	110	110	109
Flash point, COC, °C	EN ISO 2592	220	225	240

Pour point, °C	ISO 3016	-12	-9	-9
TAN, mgKOH/g	ISO 6618	0.1	0.1	0.1
Rust Preventive in the presence of dist.water and synth sea water	ISO 7120, method A and B	pass	pass	pass
Copper strip corrosion, 3h, 100°C	ISO 2160	1a	1a	1a
Water Separability - time to 3 ml emulsion, min	ISO 6614	5	10	12
Air release properties, 50°C, min	ISO 9120	4	4	6
Oxidation stability test, - time to acid number of 2.0 mg KOH/g	ISO 4263	+10 000	+10 000	+10 000
Oxidation stability test, - RBOT, min	ASTM D 2272	1200	1100	1000
FZG test - fail load stage	DIN 51534, part 2	12	12	12

Important note: Typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit:

www.goldenstoneoils.com

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