



PRISTA® Tpx

PRISTA OIL

■ DESCRIPTION

PRISTA® 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.

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

■ APPLICATION

PRISTA® 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.

■ TECHNICAL DESIGNATION

ISO L-TSA, TGA 32 according to ISO 6743

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■ SPECIFICATIONS

ISO 8086 Type AR
British Standard 489
DIN 51515 – Part 1 (L-TD) & Part 2 (L-TG)
ASTM D 4034, Type II (EP)

Siemens AG TLV 9013 04.01
GEK 32568F; GEK 101941A; GEK 107395
Solar ES 9-224
ABB HTGD 90117

■ TYPICAL CHARACTERISTICS

№	PARAMETER	TEST METHOD	TYPICAL VALUES		
			32	46	68
1.	Density at 20°C, g/ cm ³	EN ISO 3675	0.860	0.862	0.870
2.	Kinematic viscosity at 40°C, mm ² /s	EN ISO 3104	32	46	68
3.	Viscosity index	ISO 2909	110	110	107
4.	Flash point, COC, °C	EN ISO 2592	220	230	240
5.	Pour point, °C	ISO 3016	-15	-12	-9
6.	TAN, mg KOH/g	ISO 6618	0.1	-12	-9
7.	Foaming, ml (Tendency/Stability) - Seq I, at 24 °C - Seq II, at 93.5 °C - Seq III, at 24 °C	ISO 6247	20/0 10/0 20/0	20/0 10/0 20/0	20/0 10/0 20/0
8.	Rust Preventive Properties in the presence of distilled water	ISO 7120 Method A	pass		
9.	Rust Preventive Properties in the presence of synthetic sea water	ISO 7120 Method B	pass		
10.	Copper Strip Corrosion, 3h, 100°C	EN ISO 2160	1a		
11.	Water Separability -time to 3 ml emulsion, min	ISO 6614	5	10	12
12.	Water separation ability, s	DIN 51589 Part 1	100	120	140
13.	Air release properties, 50 °C, min	ISO 9120	3	4	6
14.	Oxidation Stability Test - time to acid number 2.0 mg KOH/g, h - RBOT, min	ISO 4263 ASTM D 2272	10 000 1200	10 000 1100	10 000 1000
15.	FZG test - fail load stage	DIN 51534, part 2	10	10	10

Remark: The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.