



PRISTA® Tps

PRISTA OIL

■ DESCRIPTION

PRISTA® Tps turbine oils are formulated from a special selection of highly refined lube base stocks exhibiting very high resistance to deterioration blended with a special highly efficient ash-free additive package providing excellent oxidation stability, reliable corrosion protection and good anti-wear properties to the finished oils that meet and exceed the requirements of major OEM such as MAN, Alstom, Siemens, GE, etc.

PRISTA® Tps oils are available in three ISO 3448 VGs: 32, 46 & 68.

■ APPLICATION

The premium quality turbine oils **PRISTA® Tps** are developed to lubricate steam, water and gas turbines. These turbine oils exhibit superior oxidation stability demonstrated by more than 700 hours in RBOT Test, as well as good corrosion protection and antiwear properties.

PRISTA® Tps turbine oils are also suitable for the lubrication of the associated with turbines equipment and assemblies and as well as the systems governing them.

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 the other typical applications.

The 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.

■ TECHNICAL DESIGNATION

ISO L-TSA, TGA-32* according to ISO 6743/5
(the figure stands for the viscosity grade)

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■ SPECIFICATIONS

ISO 8068, type AR
DIN 51515 Part 1 (L-TD)
Siemens AG TLV 9013 04/01
General Electric GEK-28143A Type I, II, III

Alstom NBA 50001
Alstom HTGD 90 117 V 0001 T
Solar ES 9-224

■ 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	102	100	99
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	0.15		
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		
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	80	100	150
13.	Air release properties, 50°C, min	ISO 9120	3	4	6
14.	Oxidation stability test, h - time to acid number 2.0 mg KOH/g - RBOST, min	ISO 4263 ASTM D 2272	7000 800	6600 750	6000 600
15.	FZG test - Fail load stage	DIN 51534, Part 2	8	8	8

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.