

PRISTA® Tps 46

Power generation oil

Description and Application

PRISTA® Tps 46 is a premium quality turbine oil, developed to lubricate steam and gas turbines, including turbines operating in combined cycle systems. It is formulated with a special selection of Group I + and/or Group II base oils that ensure that the end product exhibits superior oxidation stability demonstrated by more than 1000 hours in RBOT Test. It is especially designed to meet the requirements for oils operating under severe conditions, such as high temperature and high load.

PRISTA® Tps 46 is blended with a special ash-free additive package that increases the properties of the end product in terms of corrosion and oxidation stability.

The improved corrosion and oxidation stability performance make **PRISTA® Tps 46** suitable for use both in on-board compressors and turbines in different vessels as well as other auxiliary ship equipment.

PRISTA® Tps 46 meets and exceeds the requirements of major OEM such as Alstom, Siemens, GE, etc.

Benefits

- Very good oxidation stability at high temperature
- Excellent water separability
- Low tendency for sludge and acid products formation
- Officially approved by Siemens and Skoda

Specifications

ISO 3448	VG 46
ISO 6743-5	ISO L-TGB
ISO 8068: 2024	L-TGB, L-TGSB
ISO 8068	Type AR
DIN 51 515	Part 1 (L-TD), Part 2 (L-TG)
DIN 51524	Part 1 (HL)
British Standard	489 (CIGRE)
ASTM D 4304	Type I
MIL-L	17672 D
U.S. Steel	120, 126
GEK	32568F, 107395A, 46506D, 28143A (obsolete)
ABB	HTGD 90 117 V0001R 117
Siemens	AG TLV 9013 04, 9013 05
Doosan Skoda	Tp 0010P/97
CEGB Standard	207001
Solar	ES9-224U
Mitsubishi Heavy Industries	E00-87182
Westinghouse	21T0591, 55125Z3

Typical Characteristics

Parameter	Test Method	Typical Value
		Tps 46
Density at 20°C, g/cm ³	EN ISO 3675	0.862
Kinematic viscosity at 40°C, mm ² / s	EN ISO 3104	46
Viscosity Index	ISO 2190	110
Flash point, COC, °C	EN ISO 2592	235
Pour point, °C	ISO 3016	-9



Parameter	Test Method	Typical Value
		Tps 46
TAN, mgKOH/g	ISO 6618	<0.1
Rust Preventive properties in the presence of dist. water and synthetic sea water	ISO 7120 Method A&B	pass
Copper strip corrosion, 3h, 100°C	EN ISO 2160	1a
Water Separability - time to 3 ml emulsion, min	ISO 6614	10
Water Separability, s, max	DIN 51589, part 1	140
Air release properties, min	ISO 9120	4
Oxidation stability test, - time to acid number of 2.0 mg KOH/g	ISO 4263	above 10000
RBOST, min	ASTM D 2272	1000

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

This product does not pose a significant risk to human health or to the environment when used for the intended application and in accordance with the MSDS.

For more information about product, MSDS, terms and conditions for storage and shelf life please visit: www.prista-oil.com