

Goldenstone® Tps-46

Technical Data Sheet (TDS)

Power generation oil

Description and Application

GOLDENSTONE® Tps-46 turbine oil is 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.

The premium quality turbine oils **GOLDENSTONE® Tps-46** is developed to lubricate steam, water and gas turbines. This turbine oil exhibits superior oxidation stability demonstrated by more than 1000 hours in RBOT Test, as well as good corrosion protection. The oil is 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.

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

Specifications

ISO 3448	VG 46
БДС ISO 6743-5	ISO L-TSA, TGA
ISO 8068: 2006	L-TGB, L-TGSB
ISO 8068	Type AR
ASTM D 4304	Type I
DIN 51 515	Part 1 (L-TD), Part 2 (L-TG)
British Standard	489 (CIGRE)
MIL-L-	17672 D

U.S. Steel	120,
GEK	32568 F, 28143A, 46506D
ABB	HTGD 90 117 V0001R 117
Siemens	AG TLV 9013 05 Approved
Skoda	TP 0010P/97 Approved
CEGB Standard	207001
Solar	ES9-224U

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
TAN, mgKOH/g		<0.1
Rust Preventive in the presence of dist.water	ISO 7120 Method A&B	pass
Copper strip corrosion, 3h, 100°C	ISO 2160	1a
Water Separability	ISO 6614	
- time to 3 ml emulsion, min		10
Air release properties, 50°C, 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

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

Packages

210L, Bulk

Version: March 14, 2018