



TURBO S

Product Description

AEGEAN TURBO S is a series of turbine oils of supreme performance specially designed for use in geared and non-geared steam turbines, gas turbines and combined cycle gas turbines (CCGT) including the gas turbines operating at high temperatures.

Performance Features

AEGEAN TURBO S are formulated using high quality base oils in combination with a unique additive package to ensure the following properties:

- Outstanding thermal and oxidation stability.
- Prevents sludge formation, controls deposits and minimizes oil degradation.
- Superior anti-wear property and load carrying capability provide excellent protection for geared turbines
- Excellent water separation capability resists formation of emulsion and leads to easy removal of excess water from the lubrication system
- Effective rust and corrosion inhibitors provide long term protection to critical system components
- Good air release properties and foam control.

Specifications

AEGEAN TURBO S series exceeds the following performance criteria:

- ASTM D4304 Type II
- DIN 51515 TD/TG
- ISO 8086 TSE/TGE/TSA/TGA
- ALSTOM HTGD 90117 V
- GEK 32568E/32568F/46506D/28143A/107395A/101941A
- Solar ES 9-224, Class II
- Siemens TLV 9013 04
- ALSTOM HTGD 90117W



Typical properties

Properties	Unit	Method	Typical Values		
ISO VG Grade		ASTM D2422	32	46	68
Density @15°C	kg/m ³	ASTM D4052	860	864	866
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	32	46	68
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	5.5	6.9	8.9
Viscosity Index		ASTM D2270	108	106	105
Flash Point COC	°C	ASTM D92	220	226	230
Pour Point	°C	ASTM D97	-27	-24	-21
Total Acid Number	mgKOH/g	ASTM D664	0.1	0.1	0.1
Copper Corrosion		ASTM D130	1A	1A	1A
Foaming characteristics: Seq. I (tendency/stability)	ml	ASTM D892	0/0	0/0	0/0
Air Release @50°C	minutes	ASTM D3427	3	4	8
Emulsion Characteristics @54°C	minutes to 3ml emulsion	ASTM D1401	22	24	27
FZG, Fail Load Stage		DIN 51354-2	10	10	10
RPVOT@150 °C	minutes	ASTM D2272	1350	1350	1350
Oil Stability Test (TOST)	hours	ASTM D943	>10.000	>10.000	>10.000
Cleanliness at the delivery stage		ISO 4406	18/16/13	18/16/13	18/16/13

The above information is indicative based on current production and does not constitute a specification. Results can be affected by allowable tolerances.

