



TURBINE OIL 46

Product Description:

TURBINE OIL 46 is a supreme performance turbine oil 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.

TURBINE OIL 46 is based on high quality virgin mineral base oil 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.
- Increased conductivity to prevent build-up of electrostatic charges (microsparks) than can cause fire/explosion hazards.

TURBINE OIL 46 meets the following performance criteria:

ASTM D4304 Type I
ALSTOM HTGD 90117 W (non EP)
AIST 125
Siemens TLV 9013 04 & 05 (non EP)

DIN 51515-1 (TD)
GEK 107395A/27070/32568J/46506E
Solar ES 9-224
Fives Cincinnati P-55

DIN 51515-2 (TG)

AGMA 9005-E02



Property	Unit	Test Method	Typical Value
ISO VG Grade		ISO 3448	46
Density@15°C	kg/m ³	ASTM D4052	853
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	44.5
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	7.2
Viscosity Index		ASTM D2270	124
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-30
FZG A/8, 3 90°C		DIN 51354-2	>10
Demulsibility @54°C	Min.	DIN 51599	10
Total Acid Number	mgKOH/g	ASTM D664	0.1

Product Nr: 44540
Date Superseded: 31-05-2018

Date Issued: 18-12-2019
Revision nr: 06