

## **Gulf Crest**

Premium quality turbine oils for steam, water and non-geared gas turbines

## **Product Description**

**Gulf Crest** series are premium quality turbine oils specially designed to satisfy the demanding lubrication requirements of steam turbines in today's power industry. These oils are formulated with high quality severely hydroprocessed API Group II base oils and a premium ashless additive package containing field proven anti-oxidants, corrosion inhibitors and metal deactivators. These oils possess outstanding thermal and oxidation stability, excellent water separability, superior rust and corrosion inhibition, low foaming tendency, good air release properties and resistance to chemical degradation to provide excellent equipment protection, reliable operation and extended service life. While primarily designed for lubrication of steam turbines, these oils are also suitable for water turbines and non-geared gas turbines. These oils are available in three ISO viscosity grades (32, 46 and 68) and a non-ISO grade (76) and exceed the performance requirements of specifications of major turbine manufacturers. Gulf Crest 46 is approved against the Siemens TLV 9013 04 and TLV 901305 specification for non-geared turbines.

#### **Features & Benefits**

- Outstanding thermal and oxidation stability prevents sludge formation, controls deposits and minimises oil degradation leading to reliable operation
- 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 avoid erratic operation and pump cavitation leading to trouble free operation

### **Applications**

- Power generation steam turbines
- Industrial steam turbines
- Water turbines and non-geared gas turbines
- Turbo compressors
- Applications requiring high quality rust and oxidation (R&O) inhibited oils



# **Specifications, Approvals & Typical Properties**

	ISO Viscosity grades					
Gulf Crest		32	46	68	76	
Meets the following Specifications						
ASTM D 4304, Type I (non-EP)		Х	Х	Х		
BS 489		Χ	Х	Х		
DIN 51515 Part 1 (TD)		Χ	Х	Х		
ISO 8086 TSA, TGA		Χ	Χ	Х		
GEK 32568E/F		X				
GEK 28143A		Х	Χ			
GEK 46506e		Х				
Siemens TLV 901304, non-geared		Х				
Has the following Approvals						
Siemens TLV 901304 and TLV 901305, non-geared			Х			
Typical Properties						
Test Parameters	ASTM Method			st Values		
Viscosity @ 40 °C, cSt	D 445	32.2	46.3	68.1	76.8	
Viscosity Index	D 2270	105	104	100	99	
Flash Point, °C	D 92	212	218	226	232	
Pour Point, °C	D 97	-24	-21	-18	-15	
Density @ 15°C, Kg/l	D 1298	0.852	0.855	0.858	0.860	
Rust Test	D 665A/B	Pass	Pass	Pass	Pass	
Copper Corrosion	D 130	1a	1a	1a	1a	
Acid Number, mg KOH/g	D 974	0.07	0.07	0.07	0.07	
Water separability, minutes to 3 ml	D 1401	Pass	Pass	Pass	Pass	
emulsion @ 54 °C						
Foam Test, foam after 10 minutes of	D 892	Nil	Nil	Nil	Nil	
settling for all sequences						
Air Release, minutes	D 3427	2	3	4	5	
Turbine Oil Stability Test, hrs	D 943	10,000+	10,000+	10,000+	10,000+	
RBOT, minutes	D 2272	1,000+	1,000+	1,000+	1,000+	

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