



## 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 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

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

**Gulf Oil International**

The information contained herein is believed to be correct at time of publication. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

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## Specifications, Approvals & Typical Properties

Gulf Crest	ISO Viscosity grades				
	32	46	68	76	
<b>Meets the following Specifications</b>					
ASTM D 4304, Type I (non-EP)	X	X	X		
BS 489	X	X	X		
DIN 51515 Part 1 (TD)	X	X	X		
ISO 8086 TSA, TGA	X	X	X		
GEK 32568E/F	X				
GEK 28143A	X	X			
GEK 46506D	X				
Siemens TLV 90 13-04, non-geared	X				
<b>Has the following Approvals</b>					
Siemens TLV 90 13-04, non-geared		X			
<b>Typical Properties</b>					
<b>Test Parameters</b>	<b>ASTM Method</b>	<b>Test Values</b>			
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	216	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 emulsion @ 54 °C	D 1401	Pass	Pass	Pass	Pass
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil	Nil
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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