Mobil™ DTE 932 GT

Mobil Industrial , Thailand

Premium Gas Turbine Lubricating Oil

Product Description

Mobil™ DTE 932 GT is a next generation high performance turbine oil designed for use in large frame turbines under severe operating conditions. This product is based on selected high quality base oils carefully balanced with a proprietary additive system to provide long oil life in combination with industry leading "keep clean" performance. The formulations also include a non-zinc antiwear system to meet the load carrying requirements of geared turbines.

Mobil DTE 932 GT meets the requirements of modern combustion turbines where the oil is used both as a turbine bearing lubricant as well as for hydraulic controls. Mobil DTE 932 GT is specifically formulated for General Electric Frame 3, 5, 6, 7 and 9 turbines with common bearing and hydraulic oil reservoir, where varnish control is most needed.

The carefully balanced combination of base oils and additives is designed to limit the occurrence of varnish formation in the hydraulic system of these turbines. The keep clean performance in combination with a high level of oxidation and thermal stability help provide long and reliable turbine performance.

Features and Benefits

Mobil DTE brand mineral-based products have been the choice for turbine operators worldwide for more than one hundred years. During that period our company's scientists have maintained the strongest ties with turbine equipment builders and operators to ensure that the needs of new turbine designs are met or exceeded by our lubricants. This has required a continual upgrading of Mobil branded turbine oils and the application of the most appropriate modern base oil and additive technology.

For modern stationary gas turbines operating at high power outputs, exceptional protection against thermal/oxidative degradation and deposit control are key requirements. Severe operation causes thermal stressing of the lubricant that can result in filter plugging, servo valve deposits or short oil life.

Mobil DTE 932 GT oil offers the following features and potential benefits:

Features	Advantages and Potential Benefits
Excellent thermal/oxidation stability	Helps reduce downtime leading to more reliable operation Helps extend oil charge life enabling lower product costs
Reduces varnish formation potential	Reliable turbine operation and helps reduce maintenance of hydraulic system components
Excellent foam control and air release	Quick start up potential, even at lower ambient temperatures
Good electrical conductivity	Helps reduce varnish formation potential leading to reliable turbine operation and helps reduce maintenance of hydraulic system components

Applications

Mobil DTE 932 GT is a high performance turbine oil designed for use in gas turbine oil systems, direct- or gear-coupled, and turbine speed control mechanisms. Specific applications include:

- Combustion turbine bearing and hydraulic systems in both power generation and mechanical drive configurations
- Particularly suited for General Electric frame 6, 7 and 9 applications where varnish control of the hydraulic system is desired
- NOT recommended for steam turbine applications.

Application Note: Mobil DTE 932 GT is not compatible with Mobil DTE 732. Drain and flush is required when converting.

Specifications and Approvals

This product is recommended for use in applications requiring:
GE Power GEK 28143B
GE Power GEK 101941A

This product meets or exceeds the requirements of:
GE Power GEK 32568Q

Properties and Specifications

Property	
Grade	ISO 32
Air Release Time, 50 C, min, ASTM D3427	2
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B
Density @ 15.6 C, g/ml, ASTM D4052	0.84
Flash Point, Cleveland Open Cup, °C, ASTM D92	240
FZG Load Carrying Capacity, A/8.3/90, DIN 51354-2	10
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	6.1
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	31.5
Pour Point, °C, ASTM D97	-18
Rotating Pressure Vessel Oxidation Test, min, ASTM D2272	900
Rust Characteristics, Procedure B, Rating, ASTM D665	PASS
Turbine Oil Stability Test, Life to 2.0 mg KOH/g, h, ASTM D943	9000+
Viscosity Index, ASTM D2270	141
Foam, Sequence I, Tendency, ml, ASTM D892	20
Foam, Sequence I, Stability, ml, ASTM D892	0
Foam, Sequence II, Tendency, ml, ASTM D892	15
Foam, Sequence II, Stability, ml, ASTM D892	0
Foam, Sequence III, Tendency, ml, ASTM D892	20

Property	
Foam, Sequence III, Stability, ml, ASTM D892	0

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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ExxonMobil Marketing (Thailand) Limited

Harindhorn Building

54 North Sathorn Road, Bangrak, Bangkok, 10500

+66 2 407 4000

http://www.exxonmobil.com

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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