# Mobil™ DTE 932 GT

Mobil Industrial , Barbados

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<br>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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