



Mobil DTE™ 932 GT

High-performance turbine oil for gas turbines



Provides long oil life for turbines using a common fluid reservoir for both bearing and hydraulic systems.

Mobil DTE™ 932 GT is an advanced-performance turbine oil specifically designed for use in large-frame gas turbines employing a common lube reservoir under severe operating conditions. It is based on selected high-quality base oils carefully balanced with a proprietary additive system to provide long oil life along with outstanding keep-clean performance. Mobil DTE 932 GT also delivers wear protection and load-carrying performance required for geared turbines.

Specifically formulated for GE frame 3, 5, 6, 7, and 9 turbines.

Mobil DTE 932 GT meets the requirements of modern combustion turbines where a common oil reservoir is used for both the turbine-bearing lubricant as well as for the hydraulic controls. It is specifically formulated around the requirements of General Electric (GE) combustion turbines employing this single-sump design where varnish control is most needed.

Improved keep-clean performance.

Mobil DTE 932 GT is designed to prevent varnish formation and provide exceptional keep-clean performance. The carefully balanced combination of base oils and additives is engineered to limit the occurrence of varnish formation in a turbine's hydraulic system and maintain exceptional valve cleanliness. Maintaining valve cleanliness helps improve turbine efficiency and minimizes unit trips related to slow valve response. This advanced keep-clean performance, in combination with a high level of oxidation and thermal stability and good electrical conductivity, helps improve deposit control, helping provide long and reliable turbine performance.

Designed for long service life.

The industry-leading keep-clean performance of Mobil DTE 932 GT, as measured by the proprietary ExxonMobil Valve Varnish Rig Test, in combination with its high level of oxidative and thermal stability, helps provide long and reliable turbine performance. Designed for trouble-free operation from major turbine overhaul to overhaul.

High-Performance Benefits

Excellent high-temperature performance

Possesses great thermal and oxidative stability, helping reduce turbine downtime, leading to more reliable operation. Longer oil life translates to extended oil drain intervals.

Outstanding deposit control

High-temperature capability dramatically reduces the risk of deposit formation (versus conventional oil), which can keep components clean and running smoothly, reducing filter plugging and wear to vital moving parts.

Reduces varnish formation potential

Outstanding deposit control reduces varnish formation potential in control servos when using conventional oils; this can lead to more reliable turbine operation and help reduce maintenance costs associated with the hydraulic control system.

Excellent foam control and air release

Helps enable quicker start-up even at lower temperatures compared with conventional turbine oils and reduces the potential for adiabatic compression (micro-dieseling).

Mobil DTE™ 932 GT – Proof of Performance

Industry Specifications

Mobil DTE 932 GT meets or exceeds the requirements of	GE GEK 32568G
Mobil DTE 932 GT is recommended by ExxonMobil for use in applications requiring	GE GEK 101941 A GE GEK 28143 B

Keep-Clean Performance

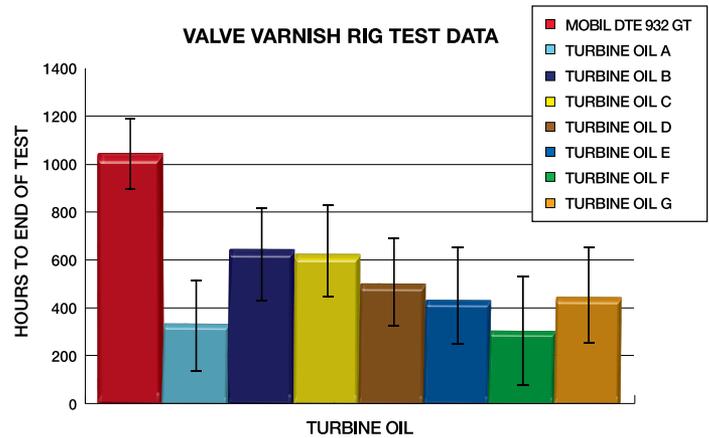


NEW VALVE

2 YEARS IN SERVICE

Mobil DTE 932 GT addresses the application concern of varnish formation in control servos, which can lead to more reliable turbine operation. After more than 2 years in service using Mobil DTE 932 GT, the control servos of a large-frame combustion turbine using a common sump show no evidence of varnish formation.

Varnish Protection



The ExxonMobil Proprietary Valve Varnish Rig Test was created to help develop high-performance turbine oils. Using actual control servos, the test rig simulates real-world conditions as seen in many large-frame turbines to monitor servo response over time. As noted, Mobil DTE 932 GT provides significant control servo varnish protection.

Typical Properties*

Viscosity, ASTM D 445 cSt @ 40°C	31.5
Viscosity Index, ASTM D 2270	141
Pour Point, °C, ASTM D 97	-18
Flash Point, °C, ASTM D 92	240
Specific Gravity 15.6°C/15.6°C, ASTM D 4052	0.84
TOST, ASTM D 943, Hours to 2 NN	9000+
RPVOT, ASTM D 2272, min.	900
FZG Scuffing, ISO 14635-1, A/8.3/90, Fail Stage	10
Rust Prevention, ASTM D 665	
Distilled Water	Pass
Sea Water	Pass
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1B
Foam Test, ASTM D 892	
Sequence I, tendency/stability, ml/ml	20/0
Sequence II, tendency/stability, ml/ml	15/0
Sequence III, tendency/stability, ml/ml	20/0
Air Release, ASTM D 3427, mins	2

*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.

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Health and Safety Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office or via the Internet. This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.

For more information on Mobil DTE 932 GT and other Mobil-branded Industrial Lubricants and services, please contact your local company representative or visit mobilindustrial.com.