



GST® Premium

Industrial Gas and Steam Turbine Oil

Product Data Sheet

Customer benefits

- Exceptional Oxidation and Thermal Stability for long service life at severe temperatures with Minimal Deposit Formation as dictated by the stringent MHPS (erstwhile MHI) MS04-MA-CL001 / CL002 specification
- Outstanding Rust and Corrosion Protection
- High Viscosity Index helps ensure minimum viscosity change when variations in temperature occur
- Minimum Foaming helps prevent sump overflow or erratic governor operation
- Fast Air Release minimizes possibility of pump cavitation in systems with high circulation rates and lesser resonance time.
- Rapid Water Separation facilitates water removal
- Hydraulic Fluid Service for systems requiring an ISO 32 viscosity and pressures not exceeding 1000 psi
- Air Compressor Lubricant for systems requiring an ISO 32 viscosity, R&O oil

Applications

- GST® Premium turbine oil is formulated to meet the critical demands of non-g geared gas, steam and hydroelectric turbine bearing lubrication and R&O service in marine reduction gears. They are additionally suitable for industrial severe service requiring an R&O, ISO 32 circulating oil with extended service capability.

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Product features:

- GST® Premium turbine oil has exceptional thermal and oxidative stability and approved for Mitsubishi Hitachi Power Systems (erstwhile Mitsubishi Heavy Industries) MS04-MA-CL002. It is suitable for use in gas and steam turbines where extreme temperatures are experienced and require circulation systems with exceptional high temperature stability.
- GST® Premium turbine oil combines highly refined group II base stocks and unique additive package minimizing the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine.

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Performance standards

GST® Premium is approved against:

- Mitsubishi Hitachi Power Systems (erstwhile Mitsubishi Heavy Industries) MS04-MA-CLO02 / MS04-MA-CLO01
- Siemens TLV 901304 and TLV 901305 (non-geared turbine)
- Alstom HTGD 90117 (non-geared turbine)
- MAN Diesel & Turbo 10000494596 rev 2, for use in MAN Diesel & Turbo equipment without increased requirements regarding load-carrying capacity

GST® Premium meets test requirements of the following specifications:

- ANSI/AGMA 9005-E02-R&O
- ASTM D4304-Type I / Type III (for non-geared turbines)
- British Standard BS 489:1999
- DIN 51515-1 and 51515-2
- General Electric GEK 32568j, GEK 28143b, GEK 46506e and GEK 27070
- ISO 8068-L-TSA and L-TGA
- Solar Turbine ES9-224 Class II
- Chinese Specification GB1120-2011 L-TGA and L-TSA (Typ A and Typ B)



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continued

Typical Properties

GST PREMIUM	TEST METHODS (ASTM)	RESULTS
ISO Grade		32
Product Code		520028
Air Release @ 50°C, mins	D 3427	1.4
Flash Point, COC, °C	D 92	224
Oxidation Stability,		
TOST life, hrs to 2.0 Acid No.	D 943	10,000
RPVOT, mins	D 2272	1,500
Total Oxidation Product (TOP), m %	IP 280	0.08
Pour Point, °C	D 97	-14
Viscosity,		
mm ² /s @ 40°C	D 445	31.5
mm ² /s @ 100°C	D 445	5.4
Viscosity Index	D 2270	105

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by Chevron Lubricants; Africa, Middle East and Pakistan.

Environment, Health and Safety Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com

For more information, go to www.chevronlubricants.com

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