



Customer benefits

- **Exceptional Oxidation and Thermal Stability** for long service life at severe temperatures with **Minimal Deposit Formation**
- **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-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.

Performance standards

GST® Premium is approved against:

- 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.

Product features:

- **GST® Premium** turbine oil has exceptional thermal and oxidative stability. 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.

GST® Premium meets test requirements of the following specifications:

- Meets and exceeds Mitsubishi Hitachi Power Systems MS04-MA-CL001 / CL002 specifications
- Dry-TOST Method ASTM D7873 (ISO 4263) (JIS K 2514)
- Mixture Stability ASTM D7873
- 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
- Chinese Specification GB1120-2011 L-TGA and L-TSA (Typ A and Typ B)
- Solar Turbine ES9-224 Class II

Typical properties

GST® PREMIUM		
ISO Grade	Test Method	32
Product Code	ASTM	520028
Air Release @ 50°C, mins	D3427	1.4
Flash Point, COC, °C	D92	224
Oxidation Stability,		
TOST life, hrs to 2.0 Acid No.	D943	10,000
RPVOT, mins	D2272	1,500
Total Oxidation Products (TOP),m %	IP 280	0.08
Pour Point, °C	D97	-14
Viscosity,		
mm ² /s @ 40°C	D445	31.5
mm ² /s @ 100°C	D445	5.4
Viscosity Index	D2270	105

1903

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and 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.chevronlubricants.com.

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
- Asia Pacific