

Product description

GST[®] Oil is a premium performance inhibited turbine oil formulated from premium base oil technology and rust, oxidation and foam inhibitors.

Customer benefits and product features

Customer benefits

Resists degradation

Exceptional oxidation stability provided by the multi-component inhibitor system helps resist oil breakdown during exposure to high temperature conditions.

Potential maintenance and downtime savings

Premium base stocks and multi-component oxidation inhibitor system help resist the formation of harmful sludge and varnish deposits. The rust inhibitor helps protect components against corrosion.

Smooth operation

The excellent water separability of premium base stocks and inhibitor system assist with rapid settling of harmful water accumulated from steam condensate. The non-silicone foam inhibitor allows rapid release of entrained air while helping to minimize foam formation, contributing to reliable operation of sensitive hydraulic control devices.

Potential inventory savings

The rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, helping to simplify oil inventories and reduce the possibility of using the wrong lubricant.

Product features

- **GST[®] Oil** is designed primarily for use in industrial Gas and Steam Turbines. It is also suited to many other industrial applications including air compressors where R&O type oils are recommended.

Applications

- Steam and hydraulic turbines operating under all service conditions
- Industrial gas turbines operating under severe conditions
- Hydraulic turbines
- Centrifugal, rotary and reciprocating compressors, turbo-blowers and centrifugal pumps (not recommended for use in breathing air compressors)

Bath and circulating systems supplying rolling element bearings of all types, lightly loaded gear sets, vacuum pumps, machine tools, conveyors, electric motors, and low to moderate pressure hydraulic pumps where anti-wear properties are not required

Product approvals, performance and recommendations

Approvals

- Alstom HTGD 90117W for non-gearred turbines (ISO 32, 46)
- Siemens TLV 9013 04 for turbosets without gearboxes (ISO 32, 46)
- Siemens TLV 9013 05 for turbosets without gearboxes (ISO 32, 46)
- MAN Diesel & Turbo 10000494596 rev 2, for use in MAN Diesel & Turbo equipment without increased requirements regarding load-carrying capacity (ISO 32, 46, 68)
- Ansaldo Energia Turbine Oil Specification TGO2-0171-E00000/B (ISO 46)
- Registered by NSF and are acceptable as lubricants where there is no possibility of food contact (H2) in and around food processing areas.

Meets requirements of the following standards and specifications:

- British Standard BS 489
- ASTM D4304 Type I
- German Standard DIN 51515 Part 1
- German Standard DIN 51515 Part 2 (ISO 32, 46)
- ISO 8068 L-TSA & L-TGA (ISO 32, 46, 68)
- ISO 8068 L-TGB & L-TGSB (ISO 32, 46, 68)
- Chinese Specification GB1120-2011 L-TSA (Typ A) and L-TGA (ISO 32, 46, 68)
- Chinese Specification GB1120-2011 L-TSA (Typ B) (ISO 32, 46, 68, 100)
- Chinese Specification GB1120-2011 L-TGSB (ISO 32, 46, 68)
- Alstom HTGD 90117 (ISO 68)
- General Electric GEK 28143B (ISO 32, 46)
- General Electric GEK 27070, 32568j, 46506D & E (ISO 32)
- Siemens MAT 812101 (ISO 32)
- Siemens MAT 812102 (ISO 46)
- Siemens-Westinghouse M Spec 55125Z3 (ISO 32)
- Solar Turbines ES 9-224 Class II (ISO 32, 46)
- Machine (MAG) P-38 (ISO 32); P-55 (ISO 46); P-54 (ISO 68)

Typical test data

GST [®] OILS KEY PROPERTIES	TEST METHOD	RESULTS			
SAE Grade		32	46	68	100
Product Code		560808	560809	560841	560842
Air Release @ 50°C, min	D3427	2.5	2.9	3.6	5.0
Flash Point, COC, °C	D92	222	224	245	262
Oxidation Stability					
TOST Life, hr to 2.0 Acid No.	D943	10,000+	10,000+	10,000+	10,000+
RPVOT min to 25 psi drop	D2272	1700	1400	1400	1400
Pour Point, °C	D97	-36	-36	-33	-30
Kinematic Viscosity, mm ² /s @ 40°C	D445	32	43.7	64.6	95.0
mm ² /s @ 100°C	D445	5.2	6.6	8.5	11.0
Viscosity Index	D2270	102	102	102	100

2109

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 Global Lubricants: Asia Pacific

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 the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.