GST® OIL
32, 46, 68, 100

PRODUCT DESCRIPTION

GST® Oils are formulated with premium base oil technology designed to meet the critical demands of:

- non-geared gas, steam, and hydroelectric turbine bearing lubrication
- reduction gear lubrication in marine operations

They are an excellent recommendation for many other industrial applications including air compression where R&O type oils are recommended.

CUSTOMER BENEFITS

GST Oils deliver value through:

- **Exceptional oxidation stability** for long service life at elevated temperatures. Formulated with premium base oil technology and an ashless, zinc-free formulation.
- **Rust and corrosion protection**
- **High viscosity index** helps ensure minimum viscosity change when variations in temperature occur.
- **Minimum foam** helps prevent sump overflow or erratic governor operation.
- **Fast air release** minimizes possibility of pump cavitation in systems with high circulation rates and small reservoirs.
- **Exceptional thermal stability** minimizes deposit formation.
- **Rapid water separation** keeps water in oil to a minimum.
- **Hydraulic fluid service** — GST Oils 32, 46 and 68 are excellent hydraulic fluids in low pressure systems up to 1000 psi.
- **Air compressor** lubricant when OEM recommends R&O type oil.

FEATURES

GST Oils are formulated with premium base oil technology and an ashless, zinc-free formulation that provides exceptional oxidation stability, water separability, and protection against rust and corrosion.

Higher temperatures in advanced gas and steam turbines require circulating system oil with exceptional high temperature stability. GST Oils have outstanding **thermal and oxidation stability**.

Nonvolatile **oxidation inhibition** minimizes the evaporative loss of the inhibitors, a common problem with turbine oils where bearing temperatures are high and system capacities are limited. With retained oxidation resistance for long periods under high temperature conditions, GST Oils will promote long oil service life and help minimize turbine down time.

Corrosion inhibition protects costly turbine shafts and gears from corrosion and rusting.

GST Oils have excellent demulsibility characteristics which allow these oils to maintain a high film strength coating on critical wear points of bearings and gear reducers and assure fast removal of water contamination.

Foam inhibition helps prevent sump overflow and erratic governor operation.

Product(s) manufactured in the USA.
Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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APPLICATIONS

GST® Oils are formulated to meet the critical demands of non-geared gas, steam, and hydroelectric turbine bearing lubrication, and reduction gear lubrication in marine operations. They are an excellent recommendation for many other industrial applications including air compression where R&O type oils are recommended.

GST Oil 32, 46, 68, 100 are registered by **NSF** and are acceptable as lubricants where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification.

PERFORMANCE CLAIMS

	32	46	68	100
Ansaldo Energia AD000020487	**A**	**A**		
Ansaldo Energia TGO2-0171-E0000		**A**		
General Electric (Alstom) HTGD 90117	**A**	**A**	M	
MAN Energy Solutions 10000494596	**A**	**A**	**A**	
Siemens TLV 9013 04, TLV 9013 05	**A**	**A**		
Siemens Westinghouse PD-55125Z3	**A**			
Alstom NBA P50001A	M	M		
Alstom NBA P50003A	M			
GE Oil & Gas ITN52220.02, ITN 52220.03	M	M		
General Electric GEK 28143a, b	M	M		
General Electric GEK 107395A, 120498, 27070, 32568e-k, 46506d, e	M			
MAG Cincinnati Cincinnati Machine P-38	M			
MAG Cincinnati Cincinnati Machine P-55		M		
MAG Cincinnati Cincinnati Machine P-54			M	
Siemens MAT 812101	M			
Siemens MAT 812102		M		
Solar Turbine ES 9-224 Class II	M	M		
ASTM D4304 Type I	M	M	M	M
ASTM D4304 Type III	M	M		
ANSI/AGMA 9005-F16	M	M		
British Standard 489	M	M	M	M
DIN 51515-1 TD	M	M	M	M
DIN 51515-2 TG	M	M		
ISO 8068 AR, B, L-TSA, L-TGA, TGB, TGSB	M	M	M	
JIS K-2213 Type 2	M	M		

A: Approved for

M: Meets or exceeds requirements

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.

Do not use in breathing air apparatus or medical equipment.

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TYPICAL TEST DATA

ISO Grade	32	46	68	100
Product Number	*253026*	*253027*	*253028*	*253029*
SDS Number	*6710*	*6710*	*6710*	*6710*
AGMA Grade	—	1	2	3
API Gravity	32.7	32.0	31.7	31.4
Viscosity, Kinematic cSt at 40°C cSt at 100°C	 32.0 5.4	 43.7 6.6	 68.0 8.8	 100.0 11.4
Viscosity, Saybolt SUS at 100°F SUS at 210°F	 165 44.4	 225 48.2	 352 55.9	 520 65.4
Viscosity Index	102	101	102	100
Flash Point, °C(°F)	222(432)	224(435)	245(473)	262(504)
Pour Point, °C(°F)	-36(-33)	-36(-33)	-33(-27)	-30(-22)
Oxidation Stability ASTM D943[a] ASTM D2272[b]	 >10,000 1700	 >10,000 1400	 >10,000 1400	 >10,000 1400

a Hours to 2.0 mg KOH/g acid number modified D943.
b Minutes to 25 psi pressure drop.

Minor variations in product typical test data are to be expected in normal manufacturing.

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