



GST® PREMIUM XL 32, 46

PRODUCT DESCRIPTION

GST® Premium XL products are formulated with premium base oil technology designed to minimize varnish deposits, resist oxidation, and meet the critical demands of today's gas and steam turbines.

CUSTOMER BENEFITS

GST Premium XL products deliver value through:

- **Low Varnish Potential** ensures varnish formation is minimized to extend oil life and protect equipment.
- **Exceptional Oxidation and Thermal Stability** for long service life at severe temperatures with minimal deposit formation.
- **Outstanding Rust and Corrosion Protection**
- **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 residence time.
- **Rapid Water Separation** facilitates water removal.
- **Hydraulic Fluid Service** for systems requiring an ISO viscosity grade 32 or 46, and pressures not exceeding 1000 psi.
- **Air Compressor Lubricant** for systems requiring an ISO viscosity grade 32 or 46 R&O oil.

FEATURES

GST Premium XL products are formulated to resist and disrupt the formation of varnish while maintaining outstanding thermal and oxidative stability. They are suitable for use in non-g geared gas and steam turbines where elevated temperatures are experienced and require circulation systems with exceptional high temperature stability.

GST Premium XL combines highly refined group II base stocks and a unique ashless, zinc-free formulation minimizing the formation of deposits in reservoirs, high temperature bearings, and, other hot areas of the turbine that can lead to trips and failures.



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® Premium XL products are formulated to meet the critical demands of non-gearred 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 viscosity grade 32 or 46 circulating oil with extended service capability.

GST Premium XL products are approved for:

- **Siemens** TLV 901304 and TLV 901305

GST Premium XL products meet the requirements of the following specifications:

- **Alstom** HTGD 90117 (for non-gearred turbines)
- **ANSI/AGMA** 9005-E02 R&O
- **ASTM** D4304 Type 1
- **British Standard** 489:1999
- **China National Std** GB 11120-2011 L-TSA Type A/B
- **China National Std** GB 11120-2011 L-TGA
- **DIN** 51515/1 and 51515/2
- **GEC Alstom** NBA P5001A / P50003A
- **General Electric** GEK-32568j, GEK-28143b, GEK-27070 and GEK-46506e
- **ISO** 8068 L-TGA
- **ISO 6743/5** (L-TSA, L-TGA, L-TGB)
- **JIS K-2213** Type II
- **MAN** Diesel & Turbo TQLT2
- **Solar Turbine** ES 9-224 Class II

GST Premium XL 32 meets the requirements for the following specifications:

- **Siemens Westinghouse** PD-55125Z3
- **Siemens Industrial Turbo Machinery** 81 21 01

GST Premium XL 46 meets the requirements for the following specifications:

- **Ansaldo Energia** TGO2-0171-E0000/C
- **GE Oil & Gas** ITN52220.02
- **GE Oil & Gas** ITN 52220.03
- **Siemens Industrial Turbo Machinery** 81 21 02

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.

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.

Do not use in breathing air apparatus or medical equipment.

TYPICAL TEST DATA

ISO Grade	32	46
<i>Product Number</i>	253093	253094
<i>SDS Number</i>		
<i>U.S.</i>	47986	47986
<i>Canada</i>	47987	47987
<i>Mexico</i>	47988	47988
API Gravity	32.5	33.0
Viscosity, Kinematic		
cSt at 40°C	34.2	42.4
cSt at 100°C	5.7	6.6
Viscosity, Saybolt		
SUS at 100°F	162.3	218.2
SUS at 210°F	44.4	48.1
Viscosity Index	105	103
Flash Point, °C(°F)	224(435)	236(456)
Pour Point, °C(°F)	-14(7)	-13(9)
Oxidation Stability		
ASTM D943 ^a	10,000	10,000
ASTM D2272 ^b	1,500	1,600
IP 280 (TOP), m %	0.08	0.08
Air Release D3427 at 50°C, minutes	1.4	2.1

a Hours to 2.0 mg KOH/g acid number D943.

b Minutes to 25 psi pressure drop.

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