



# GST<sup>®</sup> Premium 32

## Super high performance turbine lubricant

### Product description

GST Premium 32 is a super high performance turbine lubricant designed to promote high level thermal and oxidation stability. It is approved for Mitsubishi Heavy Industries MS04-MA-CL002, and is suitable for use in both gas and steam turbines where extreme temperatures are experienced and require circulation systems with exceptional high temperature stability.

GST Premium 32 combines highly refined group II base stocks and a unique additive package designed to minimise the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine.

### Customer benefits

- Promotes oxidation and thermal stability for long service life at severe temperatures with minimal deposit formation as dictated by the stringent MHI MS04-MA-CL001 / CL002 specification
- Offers dependable rust and corrosion protection
- High viscosity index (VI) helps ensure minimum viscosity change when variations in temperature occur
- Minimum foaming helps prevent sump overflow or erratic governor operation
- Rapid air release helps minimise pump cavitation in systems with high circulation rates and lesser resonance time
- Fast water separation facilitates effective water removal

### Product highlights

- **Oxidation and thermal stability**
- **Rust and corrosion protection**
- **High viscosity index (VI)**
- **Minimum foaming**
- **Rapid air release**
- **Fast water separation**

#### Selected specification standards include:

Mitsubishi Heavy Industries	Siemens
Alstom	ANSI/AGMA
ASTM	British Standard
DIN	General Electric
ISO	Solar Turbine
MAN	

## Applications

- GST Premium 32 is 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 32 circulating oil with extended service capability
- Hydraulic fluid service for systems requiring ISO 32 viscosity and pressures not exceeding 1000 psi
- Air compressor lubricant for systems requiring an ISO 32 viscosity, R&O oil

## Approvals, performance and recommendations

### Approvals

- Mitsubishi Heavy Industries MS04-MA-CL002
- Siemens TLV 901304 and TLV 901305
- Alstom HTGD 90117

### Performance

- ANSI/AGMA 9005-E02-R&O
- ASTM D4304-Type 1
- British Standard BS 489:1999
- DIN 51515/1 and 51515/2
- General Electric GEK 32568g, GEK 28143b and GEK 27070
- ISO 8068-L-TGA
- Solar Turbine ES9-224 Class II
- MAN Diesel 7 Turbo TQLT2

### Product maintenance and handling

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.

Typical test data		
Test	Test Methods	Results
Viscosity Grade		32
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Density, 15 °C, kg/l	ASTM D1298	0.8604
Viscosity, Kinematic at 40 °C, mm <sup>2</sup> /s	ASTM D445	31.5
Viscosity, Kinematic at 100 °C, mm <sup>2</sup> /s	ASTM D445	5.4
Viscosity Index	ASTM D2270	105
Pour Point, °C	ASTM D5950	-14
Flash Point COC, °C	ASTM D92	224

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.

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