



# CHEVRON GST<sup>®</sup> OILS

## ISO 32, 46, 68, 100

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### CUSTOMER BENEFITS

Chevron GST Oils deliver value through:

- **Superior oxidation stability** for long service life at elevated temperatures.
- **Rust and corrosion protection**
- **High viscosity index** assures minimum viscosity change when variations in temperature occur.
- **Minimum foam** prevents sump overflow or erratic governor operation.
- **Fast air release** minimizes possibility of pump cavitation in systems with high circulation rates and small reservoirs.
- **Superior thermal stability** minimizes deposit formation.
- **Rapid water separation** keeps water in oil to a minimum.
- **Hydraulic fluid service** — Chevron GST Oils ISO 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.
- **Environmental benefits** — All grades are ashless. This facilitates reclaiming and recycling of the used oils. Chevron GST Oils are not expected to be harmful to aquatic organisms.

### FEATURES

Chevron GST Oils are designed to meet the critical demands of:



- 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.

Chevron GST Oils are formulated with ISO SYN<sup>®</sup> base stocks.

Higher temperatures in advanced gas and steam turbines require a circulating system oil with exceptional high temperature stability. Chevron 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, Chevron GST Oils have proven they will provide longer oil service life and reduced turbine down time.

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

Chevron 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** prevents sump overflow and erratic governor operation.

## APPLICATIONS

Chevron GST Oils are recommended for use in turbines of all types including gas, steam, and hydroelectric turbines, and marine gear turbine sets.

The following viscosity grades are formulated to meet the specified OEM requirements:

### Chevron GST Oil ISO 32

- meets and exceeds
  - **General Electric** GEK-32568f, GEK 28143A, GEK-46506D, GEK-27070
  - **Ingersoll Rand** specification for Centac Centrifugal Compressors
  - **Solar** ES 9 224 requirements for gas turbine oils
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
- meets
  - **MAG Cincinnati, Cincinnati Machine** P-38
- is approved by
  - **Alstom Power** HTGD 90117
  - **Siemens Westinghouse** M spec 55125Z3
  - **Siemens** TLV 901304

### Chevron GST Oil ISO 46

- meets
  - **General Electric** and **Westinghouse** requirements for marine gas turbine system oils. Recommended by Siemens Westinghouse for reactor coolant pump motor bearings.
  - **Solar** ES 9 224 requirements for gas turbine oils
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
  - **MAG Cincinnati, Cincinnati Machine** P-55
- is approved by
  - **Alstom Power** HTGD 90117
  - **Siemens** TLV 901304

### Chevron GST Oil ISO 68

- meets
  - meets **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
  - **MAG Cincinnati, Cincinnati Machine** P-54

### Chevron GST Oil ISO 100

- meets
  - meets **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment

Chevron GST Oils ISO 32, 46, 68, and 100 are certified 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.

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.

## TYPICAL TEST DATA

ISO Grade	32	46	68	100
<i>Product Number</i>	253026	253027	253028	253029
<i>MSDS Number</i>	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	30.4 5.2	43.7 6.6	64.6 8.5	95.0 11.0
Viscosity, Saybolt SUS at 100°F SUS at 210°F	157 43.8	225 48.2	334 54.8	495 63.9
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 D 943 <sup>1</sup> ASTM D 2272 <sup>2</sup>	17,000 1700	12,000 1400	11,000 1400	11,000 1400

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

- 1 Hours to 2.0 mg KOH/g acid number modified D943
- 2 Minutes to 25 psi pressure drop