PRODUCT DATA SHEET

eni Ote GT

eni OTE GT are superior quality lubricants developed expressly for use in industrial gas turbines. They are formulated utilizing highly refined group III base stocks with the latest technology additive to obtain an exceptional resistance to oxidation and antirust and mild EP properties.

CHARACTERISTICS (TYPICAL FIGURES)

eni OTE		32 GT	46 GT
Viscosity at 40°C	mm^2/s	30.6	45,2
Viscosity at 100°C	mm^2/s	5.7	7.2
Viscosity Index	-	128	120
Flash Point COC	°C	234	246
Pour Point	°C	-15	-15
Mass density at 15°C	kg/l	0.846	0.852

PROPERTIES AND PERFORMANCE

- The **eni OTE GT** contain additives with exceptional anti-oxidant properties that reduce oil ageing and avoid formation of sludges and deposits; this is illustrated by its performance in TOST test (Turbine Oil Stability Test), where it exceeds 10000 hours.
- The high viscosity index of **eni OTE GT** oils minimizes changes in viscosity throughout the normal temperature range, thus ensuring that a proper lubricant film is maintained even at high operating temperatures.
- The anticorrosion and antirust properties provide effective protection of all lubricated parts, the oil circuit, storage tanks, heat exchangers, etc.
- The **eni OTE GT** have very good antifoam properties; they readily eliminate entrained air thus reducing the danger of discontinuity in the lubricating film, air locks and cavitation in the circulation, erratic regulator operation and overflow of oil from storage tank vents.
- The demulsibility properties prevent formation of stable emulsions, ensuring complete water separation in the oil. This characteristic is particularly appreciated in combined-cycle plants where only one high-performance product need be used to serve both gas and steam turbine lubrication requirements.
- They have mild EP properties which are essential for ensuring long life of turbine reduction gear units, as illustrated by typical test results: **eni OTE 32 GT** have a FZG failure load stage of $12^{Th.}$

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APPLICATIONS

The **eni OTE GT** are essentially intended for the lubrication of gas turbines with bearings whose operating temperatures are around 500°F (260°C). They are also suitable for lubrication of steam turbines in the combined-cycle plants They are also suitable for lubrication of steam turbines in the combined-cycle plants and also in those cases where at the turbine is associated a reduction gear unit.

SPECIFICATIONS

The **eni OTE GT** are approved and/or meet the following classifications and specifications:

- ISO 6743/5
- ISO –L-TSA /-TSE/ -TGA/ -TGB/ -TGE/ -TGSB/ -TGSE
- ISO 8068:2006
- DIN 51515-1 L-TD
- DIN 51515-2 L-TG
- ASTM D 4304 type 2
- ALSTOM HTDG 90117 V0001 W (EP type)
- ALSTOM Power Sweden MAT812109
- CATERPILLAR / SOLAR ES 9-224W - ClassII
- GM NO. LJ-03-1-97, LJ-04-1-97, LJ-06-1-97
- GENERAL ELECTRIC GEK 28143A, Type IV, V and VI
- GENERAL ELECTRIC GEK 32568f (OTE 32GT)
- GENERAL ELECTRIC GEK 101941 (OTE 32GT)
- GENERAL ELECTRIC GEK 107935a (OTE 32GT)
- GE THERMODYN ISPSH 902SDI (OTE 46GT)
- NUOVO PIGNONE SOM 23543 (OTE 32GT)
- NUOVO PIGNONE SOM 23687 (OTE 32GT)
- MAN GHH BORSIG SP 079984 E 0000 E 98
- SIEMENS TVL 9013 04 (EP type)
- SIEMENS TVL 9013 05 (EP type)
- SIEMENS MAT812107
- Siemens Westinghouse M-Spec 55125Z3