



Eni OTE GT 46

Eni OTE GT 46 is a high-quality turbine oil specially formulated for use in industrial gas turbines. This is guaranteed by the use of Group III base oils and the latest additive technology to ensure excellent oxidation and rust protection as well as moderate extreme pressure properties.

Characteristics (typical values):

Eni OTE GT	Unit	46	Method
Kin. Viscosity at 40°C	mm ² /s	46	ASTM D 445
Viscosity index		123	ASTM D 2270
Density at 15°C	kg/m ³	857	ASTM D 4052
Flash Point o. T.	°C	243	ASTM D 92
Pourpoint	°C	-18	ASTM D 97
Designation		L-TG	DIN 51 502
ISO-VG-class		46	

Properties and performance:

- **Eni OTE GT 46** is highly resistant to oxidation and aging and prevents the formation of sludge and deposits. Achieving 10,000 hours in the turbine oil stability test (TOST) proves its suitability for the longest change intervals.
- The high viscosity index of **Eni OTE GT 46** ensures that there is little change in viscosity in the range of normal operating temperatures, which ensures that the lubricating film is reliable even at high temperatures.
- The excellent anti-corrosion properties result in effective protection of all wetted components, in the oil circuit, in storage tanks and heat exchangers.
- **Eni OTE GT 46** is characterized by the best anti-foam properties and the excellent air separation capacity ensures the safety of the lubricating film and effectively prevents air inclusions and cavitation.
- The good demulsibility guarantees a quick separation of water that has entered and counteracts the formation of emulsions. This property is particularly advantageous in combined systems where a high-performance lubricant for use in gas and steam turbines is used.
- The EP properties ensure a constant and stable lubricating film, which is vital for reduction gears in the turbine units.



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Applications:

Eni OTE GT 46 is particularly suitable for the lubrication of bearings and control systems in gas turbines with an operating temperature of up to 260°C. Other uses include steam turbines in combined power plants and where a reduction gear needs to be lubricated at the same time.

Spezifications:

Eni OTE GT 46 meets the requirements of the following specifications and classifications:

- ISO 6743/5
- ISO-L-TSA/-TSE/-TGA/-TGB/-TGE/-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 ES9-224W – Class II
- GM NO.LJ-03-1-97, LJ-04-1-97, LJ-06-1-97
- GE THERMODYN ISPSH 902SDI
- MAN GHH BORSIG SP 079984 E 0000 E 98
- SIEMENS TLV 9013 04 (EP type)
- SIEMENS TLV 9013 05 (EP type)
- SIEMENS MAT812107
- SIEMENS MAT812109
- Siemens Westinghouse M-Spec 55125Z3