

Product Data Sheet

Tomoil™ Turbine Oil EP 46

Turbine oil

Product description

Tomoil™ Turbine Oil EP 46 represents a superior fluid tailored for gas turbines and combined cycles operating in rigorous conditions. Formulated with carefully selected base materials and additives, it guarantees exceptional stability against oxidation, notable properties in inhibiting foam, rapid release of air, and exceptionally effective demulsification.

Application

Tomoil™ Turbine Oil EP 46 significantly exceeds the demanding service requirements of gas and steam turbine operators in power generation, prime movers, and other industrial applications. It is primarily recommended for geared heavy-duty gas turbines that require a turbine fluid providing superior wear and scuffing protection.

Features & Benefits

- Exceptional oxidation resistance
- Extra high thermal stability
- Superior anti-wear and extreme-pressure properties
- Robust rust and anti-corrosion performance
- Longer component life
- Excellent air and water separability

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	46
Density at 15°C	g/cm ³	ASTM D4052	0.862
Kinematic Viscosity at 40°C	cst	ASTM D445	46.00
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	6.950
Viscosity Index	-	ASTM D2270	106
Flash Point (COC)	°C	ASTM D92	236
Pour Point	°C	ASTM D97	-12
Copper Corrosion, 3h, 100°C	-	ASTM D 130	1a
Water separability, sec	-	ASTM D 7451	40
RBOST test, min.	-	ASTM D 2272	1000

FZG test (Fail Load Stage)	-	DIN 51534 part 2	10
Foaming characteristics, Tendency/ Stability, ml Seq I Seq II Seq III	ml	ASTM D 892	0/0 20/0 0/0

Typical property characteristics are based on current production. Whilst future production will conform to Tomoil™ specifications, variations in these characteristics may occur.

Performance claims

- Siemens TLV 9013 04/9013 05
- ALSTOM HTGD 90 117 V0001Y
- GEK 27070/28143B/32568K/46506E
- DIN 51515 Parts I/II
- MORGOIL® Advanced Lubricant New Oil Revision 2.5a
- AIST 120/125
- AGMA 9005-F16
- British Standard BS489

Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: www.tomoil.de

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Available pack sizes

- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

Notes

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