Product Data Sheet

**Tomoil™ TPS 46**

Turbine oil

**Product description**

Tomoil™ Turbine Oil TPS 46, carefully developed with German technology and engineering expertise, represents an advanced turbine oil tailored to exceed the demands of contemporary steam and light-duty gas turbines. Formulated using premium hydrotreated base oils blended with a selection of advanced ash-free additives, it ensures exceptional oxidative stability, shields against rust and corrosion, minimizes foam formation, and exhibits outstanding demulsibility.

**Application**

**Features & Benefits**

• Strong oxidation control  
• High resistance to foaming and quick air release  
• Effective water shedding properties  
• Excellent rust and corrosion protection

**Typical Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Unit** | **Test method** | **Typical value** |
| ISO viscosity grade | - | - |  |
| Density at 15°C | g/cm3 | ASTM D4052 |  |
| Kinematic Viscosity at 40°C | mm2/s | ASTM D445 |  |
| Kinematic Viscosity at 100°C | mm2/s | ASTM D445 |  |
| Viscosity Index | - | ASTM D2270 |  |
| Flash Point (COC) | °C | ASTM D92 |  |
| Pour Point | °C | ASTM D97 |  |
| Acid number | mg KOH /g | ASTM D2896 |  |
| Water demusability | min | ASTM D1401 |  |
| Air release | min | ASTM D3427 |  |
| Copper Strip Corrosion, 3 h, 100 °C | - | ASTM D130 |  |
| Oxidation stability - TOST Life | hrs | ASTM D943 |  |
| Oxidation stability - RPVOT | min | ASTM D2272 |  |
| Rust-Preventing Characteristics, A&B | - | ASTM D665 |  |

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

**Specifications**

• 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](http://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**

* 1 L Canister plastic
* 4 L Canister plastic
* 5 L Canister plastic
* 7 L Canister plastic
* 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**

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.