

TERBIN M

ISO VG 32, 46

Product Description

Superior industrial turbine oils formulated by high quality hydrotreated basestocks and blended with advanced additive technology to enhance oil drain interval, water separability and foam formation protection. They also offer excellent sludge and varnish prevention. TERBIN M perfectly meets Mitsubishi standard.

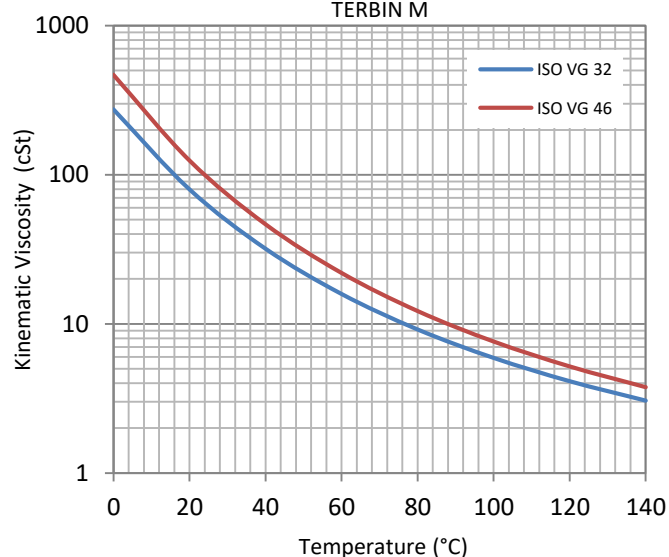
Benefits

- Maximum oxidative and thermal resistance to extend oil drain periods.
- Excellent wear and corrosion protection.
- Excellent sludge and varnish prevention.

Applications

- Recommended for water, steam, and gas turbines.
- Suitable for various applications e.g. hydraulic control systems, vacuum pump, and general transmission systems where varnish protection, and rust and oxidation prevention are required.
- Designed for turbines that need the specification to meet Mitsubishi standard.

KVT Diagram
TERBIN M



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TERBIN M

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Typical Characteristics

| Tests | Methods | Units | Results | |
|--------------------------------------|-------------|--------------------|--------------|--------------|
| | | | 32 | 46 |
| Kinematic Viscosity at 40 °C | ASTM D 445 | mm ² /s | 31.91 | 46.57 |
| Viscosity Index | ASTM D 2270 | | 131.6 | 129.9 |
| Flash Point (COC) | ASTM D 92 | °C | 242 | 250 |
| Pour Point | ASTM D 97 | °C | -12 | -12 |
| Total Acid Number | ASTM D 664 | mgKOH/g | 0.04 | 0.04 |
| Rust Prevention | ASTM D 665 | | Pass | Pass |
| Oxidation Stability | ASTM D 943 | | | |
| TAN at 1,000 hr | | mgKOH/g | 0.07 | 0.07 |
| Time to 2.0 TAN | | hrs | >16,000 | >16,000 |
| Copper strip corrosion, 3hr at 100°C | ASTM D 130 | | 1b | 1b |
| Water separation | ASTM D 1401 | | 40-40-0 (10) | 40-40-0 (10) |

Performance Standards

- DIN 51515 Part 1 (L-TD), Part 2 (L-TG)
- DIN 51524 Part 1 (HL)
- General Electric GEK 32568 F
- Siemens TLV 9013 04, 9013 05
- BS 489 (CIGRE)
- ALSTOM HTGD 90117 V0001 U
- MHI's specification MS04-MA-CL005

Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttplc.com>

PTT LUBE SOLUTIONS Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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