



Mobil DTE™ 732 M2

Mobil Industrial , Argentina

Premium Gas & Steam Turbine Lubricating Oil

Product Description

Mobil DTE™ 732 M2 is next generation high performance turbine oil designed for use in Mitsubishi Heavy Industry (MHI) non-g geared Single Shaft Heavy Duty Steam Turbines and Multi Shaft Gas Turbines, including turbines equipped with PEEK bearings. This product meets MHI's requirements for long life – high temperature turbine applications, MS04-MA-CL005 (Rev. 2), through high quality base oils and additive system designed to provide long oil life. Mobil DTE 732 M2 also meets requirements of MS04-MA-CL001 and CL002.

Features and Benefits

- Excellent chemical and oxidation stability help reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction, which can extend long oil and filter life
- High resistance to foaming and rapid air release prevent pump cavitation, noisy and erratic operation, which can help reduce pump replacement and increase efficiency
- Reduces varnish formation potential, which can help to increase turbine operation reliability and reduce maintenance costs

Applications

Mobil DTE 732 M2 is a high performance turbine oil designed for use in non-g geared gas & steam turbine and turbine compressor applications. Specific applications include:

- Steam Turbines – all non-g geared
- Gas Turbines – all non-g geared, including 501F & G series, 701F & G Series
- Turbine Compressors – all non-g geared

Specifications and Approvals

| This product has the following approvals: |  |
|---|--|
| Mitsubishi Power Ltd MS04-MA-CL005(Rev.2) |  |
| Mitsubishi Power Ltd MS04-MA-CL001(Rev.4) |  |
| Mitsubishi Power Ltd MS04-MA-CL002(Rev.4) |  |

| This product meets or exceeds the requirements of: |  |
|--|--|
| JIS K-2213 Type 2                                  |  |

Properties and Specifications

| Property                                      |        |
|---|--------|
| Grade   | ISO 32 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 5.8    |

| Property   |       |
|--|-------|
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445                   | 31.0  |
| Viscosity Index, ASTM D2270                                    | 131   |
| Flash Point, Cleveland Open Cup, °C, ASTM D92                  | 233   |
| Pour Point, °C, ASTM D97                                       | -15   |
| Turbine Oil Stability Test, Life to 2.0 mg KOH/g, h, ASTM D943 | 10000 |
| Rotating Pressure Vessel Oxidation Test, min, ASTM D2272       | 2000  |
| Rust Characteristics, Procedure B, ASTM D665                   | PASS  |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130          | 1B    |
| Foam, Sequence I, Tendency, ml, ASTM D892                      | 30    |
| Foam, Sequence I, Stability, ml, ASTM D892                     | 0     |
| Foam, Sequence II, Tendency, ml, ASTM D892                     | 0     |
| Foam, Sequence II, Stability, ml, ASTM D892                    | 0     |
| Foam, Sequence III, Tendency, ml, ASTM D892                    | 10    |
| Foam, Sequence III, Stability, ml, ASTM D892                   | 0     |
| Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401         | 10    |
| Air Release, 50 C, min, ASTM D3427                             | 2     |

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>  
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