



## Mobil DTE™ 732 M

Mobil Industrial , Japan

Premium Gas & Steam Turbine Lubricating Oil

### Product Description

Mobil DTE™ 732 M is next generation high performance turbine oil designed for use in Mitsubishi Heavy Industry (MHI) non-geared Single Shaft Heavy Duty Gas & Steam Turbines and Multi Shaft Gas Turbines. This product meets MHI's requirements for long life – high temperature turbine applications, MS04-MA-CL005, through high quality base oils and additive system designed to provide long oil life. Mobil DTE 732 M also meets the 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 enable 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 pump efficiency
- Reduces varnish formation potential, which can help to increase turbine operation reliability and reduce maintenance costs

### Applications

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

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

### Specifications and Approvals

| This product meets or exceeds the requirements of:    |
|---|
| JIS K-2213 Type 2                                     |
| Mitsubishi Hitachi Power Systems MS04-MA-CL001(Rev.4) |
| Mitsubishi Hitachi Power Systems MS04-MA-CL002(Rev.4) |
| MHI MS04-MA-CL005(Rev.1)                              |

### Properties and Specifications

| Property  |        |
|---|--------|
| Grade   | ISO 32 |
| Air Release, 50 C, min, ASTM D3427                    | 2      |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B     |

| Property  |      |
|---|------|
| Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401                          | 10   |
| Flash Point, Cleveland Open Cup, °C, ASTM D92                                   | 233  |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445                      | 5.8  |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445                       | 31.3 |
| Pour Point, °C, ASTM D97  | -15  |
| RPVOT Oxidation, after Nitrogen Sparge, 48 h, 121 C (250 F), %, ASTM D2272(mod) | 2000 |
| Rust Characteristics, Procedure B, ASTM D665                                    | PASS |
| Turbine Oil Stability Test, Life to 2.0 mg KOH/g, h, ASTM D943                  | 8376 |
| Viscosity Index, ASTM D2270   | 131  |
| Foam, Sequence I, Tendency, ml, ASTM D892                                       | 15   |
| Foam, Sequence I, Stability, ml, ASTM D892                                      | 0    |
| Foam, Sequence II, Tendency, ml, ASTM D892                                      | 5    |
| Foam, Sequence II, Stability, ml, ASTM D892                                     | 0    |
| Foam, Sequence III, Tendency, ml, ASTM D892                                     | 10   |
| Foam, Sequence III, Stability, ml, ASTM D892                                    | 0    |

### 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.aspx>

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