Mobil DTE™ 732 M2

Mobil Industrial , New Zealand

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-geared Single Shaft Heavy Duty Gas & 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 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 M2 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 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

Property	
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.8
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.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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