Mobil DTE™ 732 M2

Mobil Industrial , United States

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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