Mobil DTE™ 732 M

Mobil Industrial , Ireland

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, mm2/s, ASTM D445	5.8
Kinematic Viscosity @ 40 C, mm2/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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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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