

Product Data Sheet

Mobil DTE 800 Series Very High Performance Turbine Oils

Product Description

Mobil DTE 800 Series are high performance turbine oils manufactured from a special high pressure hydrotreated base oil and a combination of zinc free additives that provide exceptional chemical and oxidation stability, protection against wear and formation of rust or corrosion and excellent demulsibility.

Mobil DTE 800 Series are suitable for steam and gas turbines and are ideally suited for use in Combined Cycle Gas Turbine (CCGT) applications where there is a need for a single lubricant for use in both gas and steam turbines. Field experience in modern high efficiency gas turbines is excellent.

Mobil DTE 800 Series meet the requirements of the following specifications:

- ABB Power Sweden MAT 812108 (DTE 832), ABB Power Sweden MAT 812109 (DTE 846)
- Alstom Power HTGD 90117
- British Standard BS 489 : 1983
- Deutsch Industrie Normen DIN 51515-1 L-TD 32 & 46
- General Electric GEK 28143, General Electric GEK 101941A, General Electric GEK 32568 (DTE 832)
- Solar ES 9224

Mobil DTE 800 Series have formal approval to Siemens Power Generation TLV 9013 04

Benefits

Mobil DTE 800 Series offer the following benefits:

- Single product suitable for steam and gas turbine application avoids the risk of misapplication and reduces inventory requirements while providing outstanding performance in both applications
- The product provides excellent anti-wear performance making it suitable for geared turbines
- Long service life in gas and steam turbines
- Maintains unit operating efficiency through use of keep clean additive technology which controls deposits particularly at the higher temperatures experienced in severe duty gas turbines
- Excellent demulsibility enables water contamination of steam turbines to be removed with minimum maintenance
- Excellent corrosion inhibition prevents rusting of equipment after periods of inoperation and, in particular, critical areas which are not oil immersed during inactivity
- Excellent air release

Application

Mobil DTE 800 Series are designed for use in steam and gas turbines and are especially suited to use in Combined Cycle Gas Turbine installations.

Note: final filtration, before use, may be required to meet cleanliness specifications of some builders.

Health and Safety

Based on available toxicological information, it has been determined that these products pose no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Typical Characteristics

Mobil DTE

		832	846
	Test Method		
ISO Viscosity Grade	-	32	46
Viscosity, cSt at 40°C	ASTM D445	28.8/35.2	41.4/50.6
Viscosity, cSt at 100°C	ASTM D445	5.3	6.3
Viscosity Index	ASTM D2270	110	104
Flash Point, COC, °C	ASTM D92	224	224
Pour Point, °C	ASTM D97	-21	-21
Demulsibility, min	ASTM D1401	15	15
TOST, h	ASTM D943	10,000+	10,000+
Air Release, min	ASTM D51381	2	2
FZG, Fail Load Stage	DIN 51534-2	9	9

Due to continual product research and development, the information contained herein is subject to change without notice.

Mobil Oil Company Limited
Acting as Agent for Mobil Lubricants UK Limited
ExxonMobil House, Ermyn Way
Leatherhead, Surrey, KT22 8UX
Telephone: 01372 22 2000

