Mobil™

Performance by ExxonMobil

Mobil DTE™ Oil Named Series

Rust and oxidation inhibiting circulating lubricants

Energy lives here™

Product features

Mobil DTE™ Oil Named Series oils are high-quality, rust and oxidation inhibiting circulating lubricants. They are designed for use in a wide variety of equipment employing lubricating oil on a recirculating basis, such as in steam and hydro turbine and some gas turbine systems. The lubricants are formulated using highly refined base stocks and an additive system that provides:

- **A high level of chemical and thermal stability**
- **Rapid water separation**
- **High resistance to emulsification**

These oils provide excellent **resistance to salt water.**

Potential benefits

Mobil DTE Oil Named Series oils can provide:

1. Long oil life in circulation systems and reduced oil replacement costs
2. Reduced downtime and maintenance costs
3. Improved operating efficiency

Balanced formulation

Mobil DTE Oil Named Series oils (Mobil DTE™ Oil Light, Mobil DTE™ Oil Medium, Mobil DTE™ Oil Heavy Medium, Mobil DTE™ Oil Heavy) have a high viscosity index, which ensures minimum variation of film thickness with temperature and minimum power loss during the warmup period. These grades have excellent air release properties, which allow entrained air to separate, avoiding pump cavitation and erratic operation.

Applications	
Steam turbines	✓
Rotary air compressors	✓
Reciprocating natural gas compressors	✓
Ancillary equipment	✓
Marine steam turbine, hydro turbine and some gas turbine circulation systems	✓
Continuous service in plain and roller bearings and parallel shaft gearing	✓
Moderate-severity hydraulic pumps	✓
Compressors and vacuum pumps handling air, natural gas and inert gases with discharge temperatures not exceeding 150°C	✓

Mobil DTE™ Oil Named Series

Specifications and approvals

Mobil DTE™ Oil Named Series meets or exceeds the requirements of	Mobil DTE™ Light	Mobil DTE™ Medium	Mobil DTE Heavy™ Medium	Mobil DTE™ Heavy
DIN 51515-1: 2010-02	X	X	X	X
DIN 51517-2: 2009-06	X	X	X	X
GE GEK 46506D	X			
GE GEK 27070	X			
GE GEK 28143A	X	X		
JIS K-2213 Type 2 w/Additives (1983)	X	X	X	

Typical properties*

Mobil DTE Oil Named Series	Mobil DTE Light	Mobil DTE Medium	Mobil DTE Heavy Medium	Mobil DTE Heavy
ISO Viscosity Grade	32	46	68	100
Viscosity, ASTM D 445				
cSt @ 40°C	31	44.5	65.1	95.1
cSt @ 100°C	5.5	6.9	8.7	10.9
Viscosity Index, ASTM D 2270	102	98	95	92
Pour Point, °C, ASTM D 97	-18	-15	-15	-15
Flash Point, °C, ASTM D 92	218	221	223	237
Density @15°C kg/l, ASTM D 4052	0.85	0.86	0.87	0.88
TOST, ASTM D 943, Hours to 2 NN	5000	3700	4500	4500
Rust Prevention, ASTM D 665:				
Distilled Water	Pass	Pass	Pass	Pass
Sea Water	Pass	Pass	Pass	Pass
Water Seperability, ASTM D 1401, Min. to 3 ml emulsion @ 54°C	15	15	20	30
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 121°C	1B	1B	1B	1B
Foam Test, ASTM D 892, Seq I Tendency/stability, ml/ml	20/0	50/0	50/0	50/0

*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 exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.