

Mobil DTE Oil Named Series

Premium Performance Circulating Lubricants

Product Description

The Mobil DTE Oil Named Series of lubricants are premium performance circulating lubricants designed for applications including steam and hydro turbine sets and other systems where long lubricant service life is required. Mobil DTE Oil Named Series lubricants are formulated from highly refined base stocks and an additive system which provide an extremely high level of chemical and thermal stability, rapid and complete separation from water and a high resistance to emulsification. They provide excellent protection against rust and corrosion, including resistance to salt water, and good antiwear properties. They have a high viscosity index which ensures minimum variation of film thickness with temperature and minimum power loss during the warm up period. These grades have excellent air release properties which allow entrained air to separate, thus avoiding pump cavitation and erratic operation.

Mobil DTE Oil Named are the lubricants of choice for many users because of their reputation for long life, excellent equipment protection and outstanding versatility in the wide variety of industrial applications. DTE Oil Named lubricants are used widely in steam turbines and hydroturbines with splash, bath and ring-oiling arrangements, and all other continuous circulation methods involving pumps, valves and ancillary equipment. This product series is recommended for continuous service in the lubrication of plain and rolling bearings and parallel shaft gearing. They have also been used successfully in some gas turbine and rotary air compressor applications, as well as vacuum pumps. Their reputation is based on many decades of successful service and satisfied users.

Features & Benefits

The Mobil DTE family of products is well known and highly regarded worldwide based on their outstanding performance and the R&D expertise and the global technical support which stand behind the brand. The highly versatile performance of Mobil DTE Oil Named oils has made them the oil of choice for a multitude of industrial equipment applications around the world.

Mobil DTE Named oils enjoy an excellent reputation in the lubrication of the circulation systems of steam turbines and hydro turbines, including geared turbines, plus a wide variety of ancillary equipment. As designs change and increase in severity, it is the challenge of our formulation scientists to understand the effect of these changes on the lubricant and to formulate these products for the broad versatility they are recognised for.

For the Mobil DTE Oil Named Series of lubricants, this process has resulted in the use of special base stocks for outstanding oxidation stability, plus a unique additive combination to ensure the excellent, wide-ranging performance of these oils. A review of the features, advantages and potential benefits of the product are shown below.

Features	Advantages and Potential Benefits
Very high level of chemical and thermal stability and resistance to sludging and varnishing	Long oil change life in circulation systems and reduced oil replacement costs
Excellent water release properties	Less unplanned downtime and reduced maintenance costs
Very good antiwear protection	Improved operating efficiency
Long term protection against rust & corrosion	Longer equipment life, reduced maintenance & downtime
High resistance to foaming and excellent air release	Longer equipment life, reduced maintenance & downtime
Highly versatile - multiple applications	Avoids pump cavitation, noisy & erratic operation
	Rationalize inventory, reduced inventory costs

ExxonMobil Lubricants & Specialties

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Applications

The Mobil DTE Oil Named Series of lubricants are premium performance circulating lubricants designed for applications where long lubricant service life is required. Specific applications include:

- Land-based and marine steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment
- Continuous service in plain & roller bearings and parallel shaft gearing
- Turbines with oil supplied by splash, bath, ring oiling or other mechanical means
- Moderate severity hydraulic pumps
- Compressors and vacuum pumps handling air and inert gases, and with discharge temperatures not exceeding 150C

Specifications & Approvals

Mobil DTE Named Series meets or exceeds the following industry specifications:	Mobil DTE Light	Mobil DTE Medium	Mobil DTE Heavy Medium	Mobil DTE Heavy
DIN 51515-1	X	X	X	X
DIN 51517	X	X	X	X
DIN 51524	X	X	X	X
GE GEK 46506D	X			
GE GEK 27070	X			
GE GEK 28143A	X	X		

Typical Properties

Mobil DTE 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	31.0	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	4500	3500	2800
FZG Scuffing, D5182, Fail Stage	8	9	10	10
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	20	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
Air Release, ASTM D 3427, 50° C, min.	2	3	4	8

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Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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