



**Mobil™**

## Mobil DTE™ 700 Series High-performance turbine oil for gas and steam turbines



### **Presenting our new consolidated solution for steam and moderate-duty gas turbines.**

Effectively simplifying your lubricant decision making, the Mobil DTE 700 Series, compatible with most existing Mobil™-branded turbine oils, performs across a varied range of features. Now there's one oil that does the work of Mobil DTE™ 790, Teresstic™ GT, Teresstic™ ISO Series, and Teresstic™ T — making your job easier and helping you reduce your inventory.

### **An enhanced evolution of proven formulations.**

Mobil DTE 700 Series is the latest addition to the long-established Mobil DTE™ line of premium turbine lubricants that have successfully been on the market worldwide for over 50 years. This new-generation technology is engineered to provide improved deposit control to help enhance equipment reliability and uptime.

### **Designed for long service life.**

Mobil DTE 700 Series is designed for outstanding demulsibility retention and deposit control. By retaining these key properties, Mobil DTE 700 Series helps enhance your power-generation operation.

### **Meets or exceeds equipment builder specifications.**

Endorsed by Alstom, GE, Siemens, and others, Mobil DTE 700 Series surpasses 17 industry and equipment builder specifications for gas and steam turbines. Using Mobil DTE 700 Series can help ensure compliance with equipment warranty, which can simplify the lubricant selection across the plant.

### **Equipment Builder Recognition**

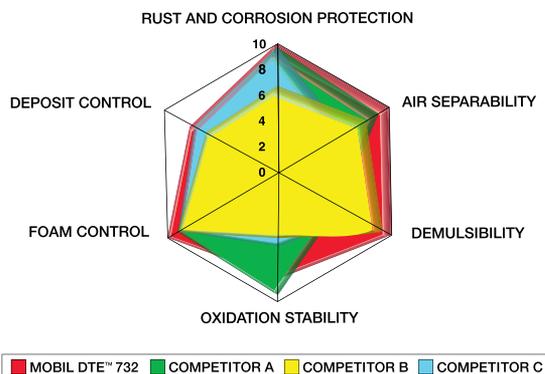
- Alstom Power HTGD 90 117
- GE GEK 27070
- GE GEK 28143A
- GE GEK 32568G
- GE GEK 46506D
- LMZ Letter No. 510-019/108n
- Siemens Industrial Turbomachinery MAT 81 21 01
- Siemens Industrial Turbomachinery MAT 81 21 01
- Siemens TLV 9013 04
- Siemens TLV 9013 05
- Siemens Westinghouse PD-55125Z3
- Škoda TP 0010P/97 (CSN 65 6620)

### **Meets Industry Specifications**

- ASTM D 4304 Rev A Type I and III (2006)
- China National Std GB 11120-89 L-TSA
- DIN 51515-1:2010-02
- DIN 51515-2:2010-02
- JIS K-2213 Type 2, with additives (2006)

# Mobil DTE™ 700 Series — Performance

## Balanced Formulation



Mobil DTE 700 Series' balanced formulation outperforms typical gas and steam turbine oils in many ways.

## Typical Properties

Mobil DTE™ 700 Series	732	746	768
ISO VG	32	46	68
Viscosity, ASTM D 445			
cSt @ 40°C	30	44	64
cSt @ 100°C	5.5	6.8	8.6
Viscosity Index, ASTM D 2270	117	113	110
RPVOT, ASTM D2272, minutes	1,000	1,000	900
TOST, time to 2.0 NN hours, ASTM D943, hours	8,000+	8,000+	7,000
Air Release, 50°C, mins, ASTM D3427	2	3	4
Demulsibility, @ 54°C, time to 3ml emulsion, ASTM D1401, minutes	10	10	10

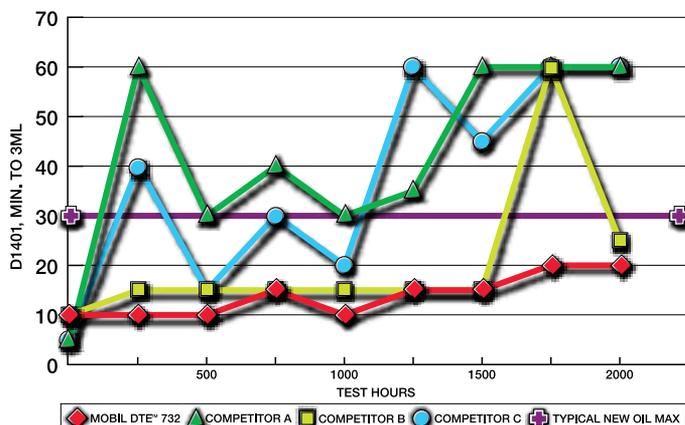
## Filter Cleanliness



MOBIL DTE™ 732      TYPICAL GAS TURBINE OIL

During proprietary simulated service testing, Mobil DTE 732 demonstrated excellent deposit control.

## Demulsibility Retention



Mobil DTE™ 732 demonstrated excellent demulsibility retention in simulated steam turbine service.

## Mobil DTE™ 700 Series Builder and Industry Qualifications

Specifications	Mobil DTE™ 732	Mobil DTE™ 746	Mobil DTE™ 768
Alstom Power HTGD 90 117	A	A	
ASTM D4304, Rev A Type I (2006)	X	X	X
ASTM D4304, Rev A Type III (2006)	X	X	
China National GB11120-89 L-TSA	X	X	X
DIN 51515-1:2010-02	X	X	X
DIN 51515-2:2010-02	X	X	
GE GEK 27070	X		
GE GEK 28143A	X	X	
GE GEK 32568G	X		
GE GEK 46506D	X		
JIS K-2213 Type 2, with additives (2006)	X	X	X
LMZ Letter No. 510-019/108n	A	A	
Siemens Industrial Turbomachinery MAT 81 21 01	X		
Siemens Industrial Turbomachinery MAT 81 21 02		X	
Siemens TLV 9013 04	A	A	
Siemens TLV 9013 05	A	A	
Siemens Westinghouse PD-551215Z3	X		
Škoda TP 0010P/97 (CSN 65 6620)		A	

**X = Meets, A = Approved**

Please refer to the equipment builder manual for final lubrication recommendation.

For more information on Mobil DTE™ 700 Series and other Mobil™-branded industrial lubricants and services, please contact your local company representative or visit [mobilindustrial.com](http://mobilindustrial.com).

### Health and Safety.

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

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