



## 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 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, Teresstic M, 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 ensure compliance with equipment warranty, helping to simplify lubricant selection across the plant.

### Equipment Builder Recognition

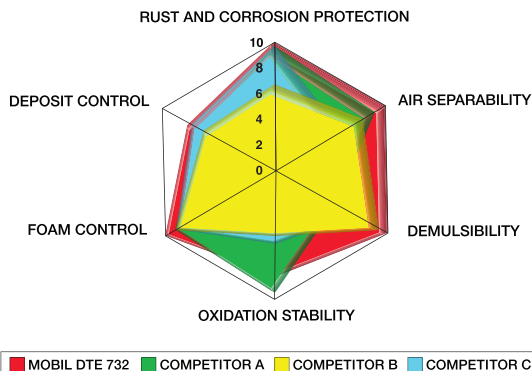
- Alstom Power HTGD 90 117
- GE GEK 27070
- GE GEK 28143A
- GE GEK 32568F
- GE GEK 46506D
- GEC Alstom NBA P50001A
- Siemens Industrial Turbomachinery MAT 81 21 01
- Siemens Industrial Turbomachinery MAT 81 21 02
- Siemens Power Generation TLV 9013 04
- Siemens PD-55125Z3
- SKODA TP 0010P/97 (CSN 65 6620)

### Industry Specifications

- ASTM D 4304 Type I and III
- China National Std GB 11120-89 L-TSA
- DIN 51515 L-TD
- DIN 51515 L-TG
- ISO 8068 L-TGB (Quality Level)
- ISO 8068 L-TGSB (Quality Level)
- JIS K-2213 Type 2, with additives

# 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 Table

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	1000	1000	1000
TOST, time to 2.0 NN hours, ASTM D943, hours	10,000	10,000	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

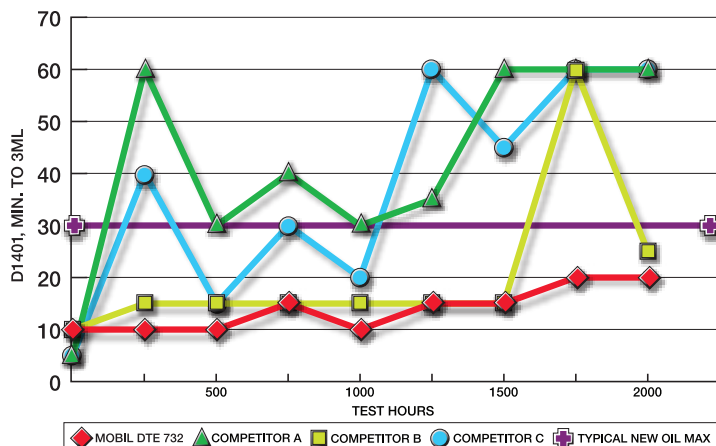


MOBIL DTE 732

TYPICAL GAS TURBINE OIL

During proprietary simulated service testing, Mobil DTE 732 demonstrated superior 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 L-TD, (part 1, 2001)	X	X	X
DIN 51515 L-TG, (part 2, 2004)	X	X	
GEC ALSTHOM NBA P50001A	X	X	
GE GEK 27070	X		
GE GEK 28143A	X	X	
GE GEK 32568F	X		
GE GEK 46506D	X		
ISO L-TGB, (ISO 8068, 2006)	X	X	X
ISO L-TGSB, (ISO 8068, 2006)	X	X	X
JIS K-2213 Type 2, w/ Additives	X	X	X
SIEMENS Industrial Turbo Machinery MAT 812101	X		
SIEMENS Industrial Turbo Machinery MAT 812102		X	
SIEMENS TLV 9013 04	A	A	
SIEMENS PD-551215Z3	X		
SKODA 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 Industrial Lubricants and services, please contact your local company representative or visit [www.mobilindustrial.com](http://www.mobilindustrial.com).