



## Mobil DTE PM Series

### Premium circulating lubricants for paper machinery



#### **Formulated for demanding paper machine circulating systems.**

Mobil DTE PM Series is a line of premium circulating lubricants specifically designed for the high steam pressures, temperatures, and machine speeds, and smaller reservoir sizes common in high-output paper machines and calenders. This advanced mineral oil-based product is specially formulated for use in modern and rebuilt paper machines, as Mobil DTE PM Series' excellent performance not only results in less required maintenance and long equipment life but also helps improve machine operation and increase production capacity.

#### **Get exceptional lubrication plus protection from rust and corrosion.**

Featuring selected high-quality base oils and a proprietary advanced-technology additive system carefully balanced to attain high-performance standards, Mobil DTE PM Series is formulated to provide maximum protection of gears and bearings operating under severe conditions. They feature good viscometrics, allowing reduced start-up times while maintaining the appropriate viscosity at high temperatures. Mobil DTE PM Series provides excellent resistance to oxidation and thermal degradation, exceptional protection against rust and corrosions, and a high level of antiwear performance.

#### **Meets demanding industry specifications.**

Mobil DTE PM Series oils have proven their performance capabilities in modern high-output paper machine lubrication. Mobil DTE PM Series meets Voith and Metso requirements for dry-end lubrication of paper machine bearings and gear systems, as well as requirements of SKF and FAG for dry-end circulation bearings.

## High-Performance Benefits

#### **Maximum wear protection**

Helps reduce wear on critical machine components to maximize reliability and performance.

#### **Effective water separation**

Readily separates water and retains color characteristics for extended periods of operation.

#### **Excellent filterability**

Outstanding demulsibility and filterability assure excellent performance in the presence of water and the ability to retain effective filtration even at very fine filtration levels.

#### **Good oxidation and thermal stability**

Balanced formulation of high-quality basestocks and proprietary additive technology effectively inhibit oxidation, providing long oil life with reduced deposit formation.

# Mobil DTE PM Series — Performance

## Keep-Clean Performance



**MOBIL DTE PM SERIES**  
AVE BEARING RATING  
6.5  
DELTA KV @ 40°C  
4.9%



**COMPETITOR B**  
AVE BEARING RATING  
3.0  
DELTA KV @ 40°C  
49%

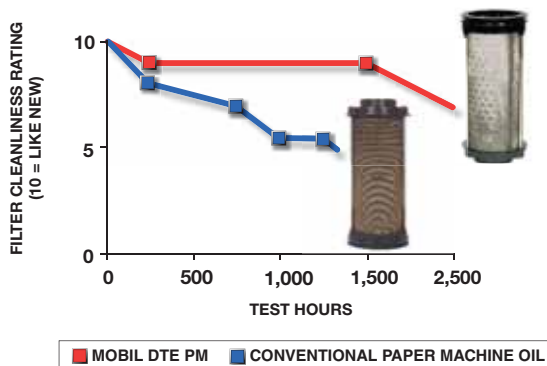
With high steam pressures and increasing speeds, the stability of your paper machine lubricant is critical. Mobil DTE PM Series keeps bearings and return lines cleaner, helping maintain flow rates and protect bearings. As shown in the photos above, this keep-clean performance is demonstrated in a proprietary Bearing Rig Test (scale from 0 to 10; the higher the rating, the cleaner the bearing).

## Rust and Corrosion Protection



Mobil DTE PM Series offers a high degree of rust protection, critical to maintaining your paper machine, even under some of the most severe conditions — including extended outages when only a thin film of oil stands between the machine and a corrosive environment. As the image above shows, Mobil DTE PM Series received a “no rust” rating on the EMCOR Bearing Corrosion Test.

## Long Oil Life



The proprietary Mobil Paper Machine Property retention test subjects oils to simulated paper machine service including high temperatures and contamination. Mobil DTE PM Series maintains a high degree of cleanliness and filterability, helping to keep your machines running longer than with competitive products and with fewer unplanned outages.

## Typical Properties

Mobil DTE PM Series	150	220
ISO Viscosity Grade	150	220
Viscosity, ASTM D 445		
cSt @ 40°C	150	220
cSt @ 100°C	14.7	19.0
Viscosity Index, ASTM D 2270, min	95	95
FZG 4-Square Load Support, DIN 51354, fail stage	12	12
Demulsibility, minutes to 40/37/3, 82°C	10	15
Rust Characteristics, Proc A and B, ASTM D 665	Pass	Pass
Foam Sequence		
Tendency, ASTM D 892, ml,		
I	10/0	10/0
II	30/0	30/0
III	10/0	10/0
Copper Strip Corrosion, 3 h @100°C, ASTM D 130, rating	1A	1A
Pour Point, °C, ASTM D 97	- 6	- 6
Flash Point, °C, ASTM D 92	250	260
Specific Gravity 15.6°C	0.888	0.889

For more information on Mobil DTE PM Series and other Mobil Industrial Lubricants and services, please contact your local company representative or visit [mobilindustrial.com](http://mobilindustrial.com).