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**Mobil 1 Turbo Diesel Truck 5W-40**

Supreme Performance Heavy Duty Diesel Engine Oil



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Product Description	Features and Benefits	Applications	Specifications and Approvals	Typical Properties	Health and Safety
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**Product Description**

Mobil 1 Turbo Diesel Truck 5W-40 is a fully synthetic performance heavy duty diesel engine oil that helps extend engine life while providing long drain capability and fuel economy for modern diesel engines operating in severe applications. Mobil 1 Turbo Diesel Truck utilizes state-of-the-art technology to deliver exceptional performance in modern low emission engines, including refrigerated units, as well as older, well-maintained engines. Mobil 1 Turbo Diesel Truck 5W-40 is recommended for use in a wide range of light-duty applications such as turbo diesel pick-up trucks, as well as, heavy-duty applications and operating environments found in the on-road transport and off-road mining, construction, and agricultural industries. Mobil 1 Turbo Diesel Truck also meets the API SM specification for gasoline engines used in mixed fleets.

The performance of Mobil 1 Turbo Diesel Truck 5W-40 is the result of extensive cooperative development work with major equipment builders and application of the latest lubrication technology. As a result, this product meets or exceeds the latest API, ACEA, JASO, and Global industry specifications for diesel engine oils.

**Features and Benefits**

Many modern, low emission diesel engines generate more soot and operate at higher temperatures than older engines. This significantly increases the need for supreme performance lubricants. Current tighter engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Top piston rings are located higher, bringing the oil film closer to the combustion chamber and exposing the lubricant to severe thermal stresses. Mobil 1 Turbo Diesel Truck 5W-40 maintains outstanding performance at significantly higher temperatures than other high performance diesel engine oils. It is also fully compatible with conventional oils. The key benefits include:

Features	Advantages and Potential Benefits
Meets or exceeds demanding specifications of major OEMs	One engine oil for mixed fleet operations
Outstanding thermal and oxidation stability	Reduced low temperature sludge build-up and high temperature deposits
Enhanced film strength at high temperatures	Reduced engine scuffing and bore polishing
Inherent stay-in-grade shear stability	Wear protection and reduced oil consumption; maintains viscosity in severe, high temperature service
Advanced formulation and viscometrics	Improved fuel economy
Low volatility	Reduced oil consumption
Exceptional low temperature pumpability	Easier engine start-up and reduced wear
Enhanced TBN quality reserve	Deposit control and extended drain capability
Outstanding resistance to corrosion	Extended life of critical wear surfaces
Long drain capability	Increased operating efficiency and lower overall cost



Component compatibility

Longer gasket and seal life, extended service intervals

**Applications**

Mobil 1 Turbo Diesel Truck 5W-40 is recommended for use in all super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR). These applications include the following:

- On-highway engines operating in both high speed/high load and stop-and-go conditions
- Off-highway engines operating in severe low speed/heavy load conditions
- Virtually all diesel powered equipment from American, European, and Japanese equipment builders
- High performance gasoline engines and mixed fleets
- Refrigeration units

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**Specifications and Approvals**

Mobil 1 Turbo Diesel 5W-40  
Truck Meets or Exceeds  
the following industry  
and builder  
specifications:

API CJ-4, CI-4 X  
PLUS/CI-4/CH-4/CG-4/  
SM/SL/SJ

ACEA E7/E5/ X

Caterpillar X  
ECF-2,ECF-3

**Typical Properties**

Mobil 1 Turbo Diesel  
Truck 5W-40

SAE Grade 5W-40

Viscosity, ASTM D 445

cSt @ 40°C 100.4

cSt @ 100°C 14.9

Viscosity Index, ASTM  
D 2270 155

Phosphorous 0.12

HTHS Viscosity, mPa•s 3.9  
@ 150°C ASTM D  
4683

Sulfated Ash, wt%, 1.0  
ASTM D 874

Total Base #, mg 10.7  
KOH/g, ASTM D 2896

MRV @ -35 ° c 25400

Flash Point, °C, ASTM 235  
D 92

Density @ 15°C kg/l, 0.85  
ASTM D 4052

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### Health and 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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Due to continual product research and development, the information contained herein is subject to change without notification.

Typical Properties may vary slightly. This product data sheet is based on global product data sheets for use with products purchased in the U.S.

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