



Mobil 1™ Turbo Diesel Truck 5W-40

Supreme Performance Heavy Duty Diesel Engine Oil



Product Description

Mobil 1™ Turbo Diesel Truck 5W-40 is a fully synthetic performance heavy duty diesel engine oil that helps to 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 help 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.

Features and Potential 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 helps to maintain outstanding performance at significantly higher temperatures than other high performance diesel engine oils. It is also fully compatible with conventional oils. The key potential 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	Helps to reduce low temperature sludge build-up and high temperature deposits
Enhanced film strength at high temperatures	Helps to reduce engine scuffing and bore polishing
Inherent stay-in-grade shear stability	Wear protection and reduced oil consumption; helps to maintain viscosity in severe, high temperature service
Advanced formulation and viscometrics	Aids fuel economy
Low volatility	Helps to control oil consumption
Exceptional low temperature pumpability	Easy engine start-up and helps to reduce wear
Enhanced TBN quality reserve	Helps to deposit control and extended drain capability
Outstanding resistance to corrosion	Helps to extend life of critical wear surfaces
Long drain capability	Helps to increase operating efficiency and lower overall cost
Component compatibility	Long gasket and seal life, helps to extend 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

Specifications and Approvals

Mobil 1 Turbo Diesel Truck meets or exceeds the requirements of the following industry and builder specifications:

	5W-40
API CJ-4, CI-4 PLUS, CI-4, CH-4/ SM, SL, SJ	X
ACEA E7 Issue 2	X
Caterpillar ECF-2,ECF-3	X

According to ExxonMobil, product is of the following quality level:

CG-4	X
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Typical Properties

Mobil 1 Turbo Diesel Truck 5W-40

SAE Grade	5W-40
Viscosity, cSt (ASTM D445)	
@ 40°C	97.9
@ 100°C	14.5
Viscosity Index	153
Phosphorous (ASTM D4951)	0.11
HTHS Viscosity, mPa•s @ 150°C (ASTM D4683)	3.8
Sulfated Ash, wt% (ASTM D874)	0.95
Total Base #, mg KOH/g (ASTM D2896)	10.7
Flash Point, °C (ASTM D92)	215
Density @ 15.6°C g/ml (ASTM D4052)	0.85

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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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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