



Mobil 1 Formula™ M 5W-40

Advanced Performance Synthetic Engine Oil

Product Description

Mobil 1 Formula™ M 5W-40 is an advanced performance synthetic engine oil designed to help provide exceptional cleaning power, wear protection and outstanding overall performance. Mobil 1 Formula M 5W-40 is engineered to help prolong the life of both diesel and gasoline powered automobiles that requires an oil that is approved against Mercedes Benz MB-229.5 specification.

Features and Potential Benefits

Mobil 1 Formula M 5W-40 is made with a proprietary blend of high performance components and synthetic baseoils. Mobil 1 Formula M 5W-40 has been designed to help deliver outstanding overall performance and protection. Key features and potential benefits include:

Features	Advantages and Potential Benefits
Active cleaning agents	Helps to reduce deposits and sludge build-up to enable long and clean engine life
Outstanding thermal and oxidation stability	Helps to reduce oil aging allowing extended drain interval protection
Low oil consumption	Less hydrocarbon pollution and less necessity to top-up
Excellent low temperature capabilities	Quick cold weather starting and fast protection. Also helps to extend engine life.
High Viscosity Index	Excellent overall lubrication and wear protection performance for all driving styles and conditions, from mild to severe.

Applications

Mobil 1 Formula M 5W-40 is approved against Mercedes Benz MB-229.5.

- It is not recommended for 2-Cycle or aviation engines, unless specifically approved by the manufacturer.

Specifications and Approvals

Mobil 1 Formula M 5W-40 has the following builder approvals:

MB-Approval	229.5
MB-Approval	229.3

Typical Properties

Mobil 1 Formula M 5W-40

SAE Grade	5W-40
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Viscosity (ASTM D445)

 VISCOSITY (ASTM D443)

cSt @ 40°C	79
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cSt @ 100°C	13.2
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Viscosity Index	168
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Sulphated Ash, wt% (ASTM D874)	0.90
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HTHS Viscosity, mPa•s @ 150°C (ASTM D4683)	3.7
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MRV @ -35 C , cP (ASTM D4684)	25,981
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Total Base Number , mg KOH/g (ASTM D2896)	8
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Flash Point, °C (ASTM D92)	228
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Density @ 15.6 °C, g/ml (ASTM D4052)	0.85
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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 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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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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