



8100 Eco-lite 0W-16



Fuel Economy Gasoline engine lubricant

100% Synthetic

TYPE OF USE

100% Synthetic "Fuel economy" engine oil specially designed for recent gasoline engines, turbocharged or naturally aspirated, direct or indirect injection, designed to use SAE 0W-16 oil with very low friction and very low HTHS (High Temperature High Shear) viscosity (≥ 2.3 mPa.s).

Suitable for modern gasoline engines requiring a viscosity grade 16 and Fuel Economy lubricant (API SP-RC, API SP and/or ILSAC GF-6b standards).

Especially recommended for all new gasoline engines requiring these specifications: HONDA, LEXUS, SUZUKI, TOYOTA...

Catalytic converter friendly.

This type of oil may be unsuitable for use in some engines. Refer to the owner manual if in doubt.

PERFORMANCE

STANDARDS API SERVICE SP-RC
 ILSAC GF-6b

RECOMMENDATIONS Gasoline engines: HONDA, LEXUS, SUZUKI, TOYOTA, ...

The API SP standard is fully backward compatible over API SN requirements and all former API standards. The API SP-RC "Resource Conserving" specification is even more demanding on the energy saving requirements.

API SP lubricants provide outstanding oxidation resistance, better anti-deposits protection, better engine cleanliness, anti-wear protection and enhanced performance at cold temperature for Fuel Economy savings during the whole oil life span.

Besides being backward compatible, compare to API SN and API SN Plus, the API SP standard provides higher performance and especially adds more protection against LSPI phenomenon for downsized direct injection turbocharged gasoline engines.

Based on the API SP specification, the ILSAC GF-6b standard for viscosity grade 16 lubricants is even more severe especially on the Fuel Economy benefits performance. The requirements on the low viscosity "Fuel Economy" side of the lubricant, but also extended drain intervals, clean pistons/rings, seals compatibility and reduced content of Phosphorus for after treatment systems compatibility are enhanced. The ILSAC GF-6b specification also ensures perfect engine protection when gasoline containing up to 85% Ethanol is used (E85).

Turbocharged gasoline engines with direct injection have a certain risk of sporadic pre-ignition phenomena in the combustion chambers. This type of sporadic abnormal combustion resembles metallic noise from combustion chambers and is sometimes associated with a short power loss. This phenomenon called LSPI for Low Speed Pre-Ignition, or also Rumble, generates very high pressure peaks in the combustion chamber that can lead to piston damages and ultimately to engine destruction. For latest-generation downsized gasoline engines, which are equipped with direct injection systems and turbochargers, the API SP standard for engine lubricants guarantees the perfect integrity of these gasoline engines facing the risk of these abnormal combustions.

MOTUL 8100 Eco-lite 0W-16 meets all these very highly demanding requirements of performance and durability including the full compatibility to biofuels use such as LPG (Liquefied Petroleum Gas), CNG (Compressed Natural Gas), and bioethanols (as available at the gas station), when using Ethanol biofuels at a mix ratio of up to 85% (Bioethanol – E85).

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

Product specifications are not definitive from the order which is subject to our general conditions of sale and warranty.

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Viscosity grade SAE 0W-16 seriously minimizes lubricant hydrodynamic friction, allows fuel economy benefits especially when the oil is cold.

Improves oil flow at start up, faster oil pressure build-up, faster rev raisings and reach operating temperature faster.

Environment friendly, this type of oil allows fuel consumption reduction and therefore minimizes greenhouse gases (CO₂) emissions.

RECOMMENDATION

Drain interval: according to manufacturers' recommendations and tune to your own use.

Can be mixed with synthetic or mineral oils.

This type of oil may be unsuitable for use in some engines. Before use always refer to the owner manual of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	0W-16
Density at 20°C (68°F)	ASTM D1298	0.844
Viscosity at 40°C (104°F)	ASTM D445	38.2 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	7.3 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	2.3 mPa.s
Viscosity index	ASTM D2270	159
Pour point	ASTM D97	-42°C / -44°F
Flash point	ASTM D92	224°C / 433°F
Sulfated ash	ASTM D874	0.85% weight
TBN	ASTM D2896	8.5 mg KOH/g