



MOTUL 8100 X-MAX 0W-30

**Gasoline and Diesel engine oil
100% Synthetic**

TYPE OF USE

High performance 100% Synthetic lubricant featuring Full SAPS (Sulfated Ash, Phosphorous, Sulfur) technology, specifically designed for powerful and recent cars fitted with large displacement engines, Gasoline and Diesel, direct or indirect injection, with or without turbo.

Multipurpose product featuring numerous car maker approvals, especially recommended for vehicles still under warranty.

Suitable for all type of fuels: Gasoline, Diesel, Ethanol, LPG, CNG and Biofuels.

Compatible for catalytic converters.

If in doubt, before use, refer to the owner manual or handbook of the vehicle.

PERFORMANCES

STANDARDS	ACEA A3/B4 API SERVICE SL
APPROVALS	BMW LL-01 MERCEDES-BENZ MB-Approval 229.5 VOLVO VCC 95200356
PERFORMANCES	VW 502 00 505 00, RENAULT RN0710 - RN0700

The BMW Long Life-01 specification imposes severe constraints to the lubricant particularly due to the Valvetronic system. It covers all BMW engines from 2001 and some engines from 2004. BMW LL-01 norm covers also all former BMW specifications such as BMW LL-98.

The BMW LL-01 standard covers all Gasoline engines running only outside European Union countries, Switzerland, Norway and Liechtenstein. Refer to BMW recommendations when in doubt.

MOTUL 8100 X-max 0W-30 fulfills all the specifications of BMW Long Life-01 standard of the BMW Group for BMW, MINI and ROLLS-ROYCE vehicles with no exceptions i.e. for models before and after 2019.

For BMW vehicles requiring an approved BMW LL-04 lubricant, use only products such as MOTUL 8100 X-clean+ 5W-30, MOTUL 8100 X-clean EFE 5W-30, MOTUL 8100 X-clean gen2 5W-40 or MOTUL Specific LL-04 5W-40.

The MERCEDES MB 229.5 standard is more stringent than 229.3 in terms of oil ageing and oil film resistance (extended drain interval: on-board computer), detergent/dispersant power (ACEA B4) and requests fuel economy performance: 1.7%

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 definitive from the order which is subject to our general conditions of sale and warranty.

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fuel economy improvement versus a 15W-40 reference. The specification MB 229.5 applies to all MERCEDES Gasoline engines, except for AMG and SLR models, and to all MERCEDES Diesel without DPF engines.

The specification VOLVO VCC 95200356 imposes the lubricant to be both ACEA A3/B4 and viscosity grade 0W-30 to perfectly lubricate some Gasoline and Diesel vehicles of Volvo Car Corporation group.

RENAULT has developed RN0700 and RN0710 standards for oils able to endure the most severe thermal constrains along with modern after treatment systems compatibility.

The Renault RN0700 standard applies to all Naturally Aspirated Gasoline engines (except Renault Sport) of RENAULT Group (Renault, Dacia, Samsung).

The RN0700 specification applies also to all RENAULT Diesel cars fitted with 1.5L dCi engines without DPF (Diesel Particulate Filter) having less than 100 hp output and 20 000 km or 1-year oil drain interval.

The Renault RN0710 standard applies to all turbocharged Gasoline, Renault Sport and Diesel without DPF engines of RENAULT Group (Renault, Dacia, Samsung).

The RN0710 specification does not apply to RENAULT Diesel cars fitted with 1.5L dCi engines without DPF having less than 100 hp output and 20 000 km or 1-year oil drain interval which specifically require a RN0700 lubricant. For the 2.2L dCi with DPF, use only an approved RN0710 lubricant, not a RN0720.

The VW 502 00 and 505 00 specifications are specially designed for vehicles of the VAG group (VOLKSWAGEN, AUDI, SKODA and SEAT) running on fixed oil drain intervals (15,000 km in Europe), fitted with Diesel engines, without Unit Pump Injector (Volkswagen PD), without Diesel Particulate Filter (DPF), or Gasoline engines.

MOTUL 8100 X-max 0W-30 meets all these very demanding requirements of performance and durability set by OEMs, as well as international standards such as ACEA and API.

The ACEA A3/B4 standard requires from the lubricant performance a very high detergent/dispersant power, a better viscosity increase resistance against deposits, and high lubricating properties such as wear protection and high temperature resistance for better controlled oil consumption and perfect engine protection over the oil drain interval.

The viscosity grade SAE 0W-30 minimizes oil hydrodynamic friction, allowing fuel economy especially when oil is cold. Improves oil flow at start up, faster oil pressure build up, faster rev raisings and faster operating temperature reach.

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

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MOTUL 8100 X-max 0W-30 formulation is the perfect balance between fuel economy linked to its viscosity grade and high lubrication performance and protection at high temperatures (high HTHS > 3.5 mPa.s).

RECOMMENDATIONS

Drain interval: refer to manufacturers' recommendations and tune to your own use.
MOTUL 8100 X-max 0W-30 can be mixed with synthetic or mineral oils.
Before use always refer to the owner manual or handbook of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	0W-30
Density at 20°C (68°F)	ASTM D1298	0.841
Viscosity at 40°C (104°F)	ASTM D445	64.9 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	12.1 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.6 mPa.s
Viscosity Index	ASTM D2270	186.0
Pour point	ASTM D97	-51.0 °C / -60.0 °F
Sulfated Ash	ASTM D874	% weight 1.07
TBN	ASTM D2896	12.5 mg KOH/g
Flash point	ASTM D92	224.0 °C / 435.0 °F

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