



MOTUL 8100 X-CESSE 5W-30

**Gasoline and Diesel engine oil
Synthetic Technology**

TYPE OF USE

High performance synthetic technology lubricant specifically designed for powerful and recent cars fitted with large displacement engines, Gasoline and Diesel, turbocharged or naturally aspirated, indirect or direct injection.

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

Suitable for all type of fuels: leaded or unleaded Gasoline, Ethanol, LPG, Diesel and biofuels.

Compatible for catalytic converters.

Before use always 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
MERCEDES-BENZ MB-Approval 226.5
RENAULT RN0710 - RN0700
VW 502 00 505 00

The ACEA B4 performance requires an outstanding detergent/dispersant power and a better viscosity increase resistance due to soot produced by Direct Injection Diesel engines (except VW unit injector pump engines that require a VW 505 01 product such as MOTUL 8100 X-clean EFE 5W-30, MOTUL 8100 X-clean 5W-40 or MOTUL Specific 505 01 505 00 5W-40).

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-cess 5W-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 models up to 2019, i.e. until end

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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of 2018 only, MOTUL 8100 X-cess 5W-40 or 8100 X-cess GEN2 5W-40 can also be used.

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 ageing and oil film resistance (extended drain interval: on-board computer), detergent/dispersant power (ACEA B4) and requests fuel economy performance: 1.7% fuel economy improvement versus a 15W-40 reference. The specification MB 229.5 applies to all MERCEDES Gasoline engines, except AMG (in 5W-40 viscosity grade) and except SLR model, and to all MERCEDES Diesel without DPF engines.

The specification MB 226.5 is similar to 229.5 and applies to MERCEDES Gasoline engines sourced from the MERCEDES/RENAULT-NISSAN partnership.

RENAULT has developed RN0700 and RN0710 standards for oils able to endure the most severe thermal constraints 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.

RECOMMENDATIONS

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

MOTUL 8100 X-cess 5W-30 can be mixed with synthetic or mineral oils.

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PROPERTIES

Viscosity grade	SAE J 300	5W-30
Density at 20°C (68°F)	ASTM D1298	0.849
	ASTM D445	69.1 mm ² /s
Viscosity at 40°C (104°F)		
	ASTM D445	12.0 mm ² /s
Viscosity at 100°C (212°F)		
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.5 mPa.s
	ASTM D2270	166.0
Viscosity Index		
	ASTM D97	-36.0 °C / -33.0 °F
Pour point		
Sulfated Ash	ASTM D874	
		% weight
		1.07
TBN	ASTM D2896	12.5 mg KOH/g
Flash point	ASTM D92	230.0 °C / 446.0 °F

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