

**Gasoline & Diesel engine oil
100% Synthetic****TYPE OF USE**

High performance 100% Synthetic lubricant specifically designed for powerful and recent cars fitted with Gasoline and Diesel engines, naturally aspirated or turbocharged, indirect or direct injection.

Multipurpose product featuring numerous car maker approvals, 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 (CAT).

PERFORMANCES

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 engines that require a VW 505 01 product such as MOTUL Specific 505 01 502 00 5W-40 or 8100 X-clean EFE 5W-30 or 8100 X-clean 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, including AMG (in 5W-40 viscosity grade) except SLR, 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.

The PORSCHE A40 standard requires extreme high shear resistance from the lubricant. This specification applies to all PORSCHE engines, except Cayenne V6 and Diesel versions (for these specific engines, use an approved Porsche C30 lubricant such as MOTUL 8100 X-clean+ 5W-30).

The VW 502 00 and 505 00 standards 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.

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.

MOTUL 8100 X-cess 5W-40 meets the performance of the BMW Long Life-01 standard from the BMW Group for BMW, MINI and ROLLS-ROYCE vehicles until the model year 2019 i.e., up to End of 2018 only. For models from 2019 onward requiring an approved BMW LL-01 lubricant, products such as MOTUL 8100 X-cess 5W-30 or MOTUL 8100 X-cess GEN2 5W-40 must be used.

The FIAT 9.55535-H2, M2, N2 and Z2 performance levels impose the engine oil to combine both ACEA A3/B4 standard and 5W-40 viscosity grade in order to perfectly lubricate most of the Gasoline and Diesel engines of FIAT, ALFA-ROMEO, and LANCIA produced before July 2007, especially Twin Turbo Diesel engines (FIAT 9.55535-Z2).

The MS-12991 performance level mirrors these FIAT specifications for CHRYSLER vehicles.

GM-OPEL Diesel LL B-025 standard requires two main properties from the lubricant: high HTHS and very low volatility to drastically decrease oil consumption. MOTUL 8100 X-cess 5W-40 is especially recommended for OPEL Diesel engines such as the 2.0L and 2.2L DTI engines (extended drain interval: on-board computer).

PSA has developed B71 2296 standard in order for the oils to provide high thermal stability and ensures an outstanding resistance at high temperatures to avoid black sludge and viscosity increase that soot, coming from combustion residues, may create.

PSA B71 2296 specification is suitable for some PSA Gasoline and Diesel engines requiring this standard: Always refer to the recommendation of your service booklet.

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 drain interval.

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

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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.

RECOMMENDATIONS

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

MOTUL 8100 X-cess 5W-40 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	5W-40
Density at 20°C (68°F)	ASTM D1298	0.851
Viscosity at 40°C (104°F)	ASTM D445	85.4 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	14.2 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.7 mPa.s
Viscosity Index	ASTM D2270	172.0
Pour point	ASTM D97	-36.0 °C / -33.0 °F
Sulfated Ash	ASTM D874	1.10 % weight
TBN	ASTM D2896	10.1 mg KOH/g
Flash point	ASTM D92	232.0 °C / 450.0 °F

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STANDARDS	
ACEA	A3/B4
API	SERVICE SN
MERCEDES-BENZ	MB-Approval 226.5, MB-Approval 229.5
PORSCHE	A40
VW	502 00 505 00
OEM PERFORMANCES	
BMW	LL-01 (For model year up to End of 2018 only)
CHRYSLER	MS-12991
FIAT	9.55535-H2, 9.55535-M2, 9.55535-N2, 9.55535-Z2
GENERAL MOTORS	GM LL-B-025 (Diesel)
RENAULT	RN0710 - RN0700
PRODUCTS	
PSA Groupe	PSA B71 2296

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