



MOTUL 6100 SYN-CLEAN 5W-40

DPF

Gasoline & Diesel lubricant - Euro 4, 5 and 6
Technosynthese®

TYPE OF USE

Advanced synthetic Technosynthese® lubricant for High Performance and High Protection. Recommended by FORD, GM, MERCEDES, RENAULT and VAG (Volkswagen, Audi, Skoda and Seat). Specially designed for the latest generation cars, powered by Gasoline and Diesel engines, naturally aspirated or turbocharged, indirect or direct injection, Euro 4, 5 or 6 emission regulation compliant and requiring an ACEA C3 engine oil i.e. high HTHS (> 3.5 mPa.s) viscosity and "Mid SAPS" with reduced content of Sulfated Ash ($\leq 0.8\%$), Phosphorus ($0.07\% \leq x \leq 0.09\%$) and Sulfur ($\leq 0.3\%$).

Compatible with catalytic converters (CAT) and Diesel Particulate Filters (DPF).

Always refer to the owner's manual if in doubt.

PERFORMANCES

STANDARDS	ACEA C3 API PERFORMANCE SN
PERFORMANCES	BMW LL-04 (For model year up to End of 2018 only), FORD WSS-M2C917-A, GENERAL MOTORS GM dexos2™ (replaces GM-LL-A-025 & B-025), MERCEDES-BENZ MB 229.51, RENAULT RN0710 - RN0700, VW 505 00 505 01
RECOMMENDATIONS	HONDA, HYUNDAI, KIA, MITSUBISHI, NISSAN, SSANGYONG, SUZUKI, TOYOTA

Engines compliant with Euro 4, 5 and 6 emission regulation are fitted with sensitive exhaust gas after treatment systems. Indeed, Sulfur and Phosphorus inhibit catalytic converters operation leading to inefficient exhaust gas treatment; and Sulfated Ash clogs DPFs leading to shorten regenerating cycle, quick oil aging, higher fuel consumption and engine power loss.

The ACEA C3 standard requests from the lubricant significant oil film resistance and low emission performance for powerful engines.

MOTUL 6100 SYN-clean 5W-40 has Technosynthese® synthetic base stocks coupled with specific friction modifier molecules and dedicated SAPS levels that generate outstanding oil film resistance, reduce friction in the engine and provide after treatment devices compatibility. MOTUL 6100 SYNclean 5W-40 brings high lubricating properties such as wear

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

Product specifications are definitive from the order which is subject to our general conditions of sale and warranty. Made in FRANCE

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protection and high temperature resistance for better controlled oil consumption. ACEA C3 lubricants achieve extended drain intervals managed by vehicles on-board computer.

Numerous OEMs such as KIA / HYUNDAI, HONDA, MITSUBISHI, NISSAN, SUZUKI, SSANGYONG, TOYOTA,... recommend an ACEA C3 lubricant for most of their vehicles especially Diesels with DPF.

MOTUL 6100 SYN-clean 5W-40 meets the performance of the BMW Long Life-04 standard of 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-04 lubricant, products such as MOTUL 8100 X-clean+ 5W-30, MOTUL 8100 X-clean EFE 5W-30, 8100 X-clean Gen2 5W-40 or Specific LL-04 5W-40 must be used.

The FORD WSS-M2C917-A standard is required for FORD Galaxy 1.9L TDI until MY2006 ; and for FORD Ka from MY2008.

In countries with relevant Diesel passenger car market shares e.g. Europe, the GENERAL MOTORS dexos2® standard is suitable for the whole range of GM Diesel engines (including DPF versions) and most of Gasoline engines from Model Year 2010. Also, GM dexos2® fully supersedes and replaces the former GM specifications: GM-LL-A-025 (Gasoline) and GM-LL-B-025 (Diesel).

The MB 229.51 requires among many other severe constrains from the lubricant a reduced content of Sulfated Ash, Phosphorus and Sulphur in order to be compatible with MERCEDES exhaust gas after treatment systems. The specification MB 229.51 applies to some MERCEDES Gasoline engines, and to all MERCEDES Diesel engines, with or without DPF (except for BlueTEC engines with SCR. In this case use a MB 229.52 lubricant such as MOTUL SPECIFIC 229.52 5W-30 or MOTUL 8100 X-CLEAN EFE 5W-30).

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.

Specifications VW 505 00 and VW 505 01 require high detergent/dispersant power, high oil film resistance and better viscosity increase resistance due to soot in order to cover many old Diesel engines and especially Direct Injection Diesel engines (unit injector system, fixed oil drain interval, check owner's manual). Attention, do not use MOTUL 6100 SYN-clean 5W-40 when a VW 504 00 or VW 507 00 lubricant is required, in that case use MOTUL SPECIFIC 504 00 507 00 5W-30, MOTUL SPECIFIC 504 00 507 00 0W-30 or MOTUL 8100 X-CLEAN+ 5W-30.

RECOMMENDATIONS

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

Do not mix with lubricants not ACEA C3 compliant.

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	0.841
Viscosity at 40°C (104°F)	ASTM D445	85.1 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	14.4 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.6 mPa.s
Viscosity Index	ASTM D2270	170.0
Pour point	ASTM D97	-36.0 °C / -33.0 °F
Sulfated Ash	ASTM D874	0.81 % weight
TBN	ASTM D2896	7.6 mg KOH/g
Flash point	ASTM D92	231.0 °C / 448.0 °F