



## MOTUL 6100 SYN-CLEAN SPEC 5W-30

DPF

Gasoline & Diesel engine oil designed for European OEM standards  
Technosynthese®

### TYPE OF USE

Advanced synthetic Technosynthese® lubricant for High Performance and High Protection. Recommended for most European OEMs such as CHRYSLER, OPEL-VAUXHALL, MERCEDES, and VAG (Volkswagen, Audi, Skoda, Seat and Cupra). Specially designed for recent 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
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PERFORMANCES	CHRYSLER MS 11106, OPEL OV 040 1547 - D30, VAUXHALL OV 040 1547 - D30, MERCEDES-BENZ MB 229.51, VW 505 00 505 01
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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 SPEC 5W-30 has synthetic Technosynthese® 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 SYN-clean SPEC 5W-30 brings high lubricating properties such as wear 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.

The CHRYSLER MS-11106 performance level requires the engine oil to combine both MB 229.51 and 5W-30 in order to

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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perfectly lubricate some Diesel engines of CHRYSLER and JEEP vehicles.

OPEL/VAUXHALL being now part of STELLANTIS, the new Opel Vauxhall specification OV 040 1547– D30, for new generation Diesel engines requiring viscosity grade 30 lubricant, has been released to replace GM dexos2 gen2 specification which will continue only at GM and its related brands.

The MERCEDES BENZ specification MB 229.51 requires, among many other severe constraints, 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 8100 X-CLEAN EFE 5W-30.

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).

### 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-30
Density at 20°C (68°F)	ASTM D1298	0.851
Viscosity at 40°C (104°F)	ASTM D445	70.3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	12.3 mm²/s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.5 mPa.s
Viscosity Index	ASTM D2270	167.0
Pour point	ASTM D97	-41.0 °C / -42.0 °F
Sulfated Ash	ASTM D874	% weight 0.78
TBN	ASTM D2896	7.7 mg KOH/g
Flash point	ASTM D92	231.0 °C / 448.0 °F

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