# 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 (≤ 0.8%), Phosphorus (0.07% ≤ x ≤ 0.09%) and Sulfur (≤ 0.3%).
Compatible with catalytic converters (CAT) and Diesel Particulate Filters (DPF).
Always refer to the owner's manual if in doubt.

**PERFORMANCES**

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| STANDARDS | ACEA C3<br>API PERFORMANCE SN |
| PERFORMANCES | CHRYSLER MS-11106<br>OV 040 1547-D30<br>MB 229.51<br>VW 505 00 – 505 01 |

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 perfectly lubricate some Diesel engines of CHRYSLER and JEEP vehicles.

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 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).

## RECOMENDATIONS

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

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| Viscosity grade | SAE J300 | **5W-30** |
| Density at 20°C (68°F) | ASTM D1298 | 0.849 |
| Viscosity at 40°C (104°F) | ASTM D445 | 69.6 mm²/s |
| Viscosity at 100°C (212°F) | ASTM D445 | 11.8 mm²/s |
| Viscosity index | ASTM D2270 | 166 |
| Pour point | ASTM D97 | -36°C |
| Flash point | ASTM D92 | 232°C |
| TBN | ASTM D2896 | 6.7 mg KOH/g |