



MOTUL 8100 POWER 5W-50

High Performance engine oil - Petrol & Diesel
100% Synthetic - **ESTER**

TYPE OF USE

High Performance 100% Synthetic - **ESTER** engine oil inspired from the competition and specially designed for petrol or Diesel engines, tuned or high performance, naturally aspirated or turbocharged, indirect or direct injection, and operating over a wide range of engine revs and temperatures, in the most severe road or racing conditions.

Suitable for petrol and Diesel engines requiring an API SP viscosity grade 5W-50 lubricant.

The exclusive formula of MOTUL 8100 POWER 5W-50 is compatible with biofuels (especially the Ethanol E85) and after-treatment systems. It also protects downsized engines from the risk of LSPI (Low Speed Pre-Ignition), and its optimized high viscosity grade brings the maximum reliability to your engine and high protection against fuel dilution.

Very good compatibility with catalytic converters.

Suitable for all types of petrol fuels, leaded or unleaded, Ethanol, LPG, Diesels and biofuels.

This type of oil may be unsuitable for use in some engines. Before use always refer to the owner's manual.

PERFORMANCES

ESTER Technology: 100% Synthetic formula derived from competition and based on Ester ensuring outstanding oil film resistance at very high temperatures for maximum engine power and torque, as well as maximum wear protection. Stable oil pressure whatever the conditions of use, road or racing.

Turbocharged petrol engines with direct injection have a certain risk of sporadic pre-ignition phenomena in the combustion chambers. This type of sporadic abnormal combustion resembles metallic noise from combustion chambers and is sometimes associated with a short power loss. This phenomenon called LSPI for Low Speed Pre-Ignition, or also Rumble, generates very high pressure peaks in the combustion chamber that can lead to piston damages and ultimately to engine destruction.

For their latest-generation downsized petrol engines, which are equipped with direct injection systems and turbochargers, API has developed the API SP standard for engine lubricants in order to guarantee the perfect integrity of these petrol engines facing the risk of these abnormal combustions.

The API SP standard is fully backward compatible over API SN requirements and all former API standards. API SP lubricants provide outstanding oxidation resistance, better anti-deposits protection, better engine cleanliness, anti-wear protection and enhanced performance at cold temperature for Fuel Economy savings during the whole oil life span.

Besides being backward compatible, compare to API SN and API SN Plus, the API SP standard provides higher performance and especially adds more protection against LSPI phenomenon for downsized direct injection turbocharged petrol

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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engines.

MOTUL 8100 POWER 5W-50 meets all these very highly demanding requirements of performance and durability, including in particular for API SP standard, the full compatibility to biofuels use such as LPG (Liquefied Petroleum Gas), CNG (Compressed Natural Gas), and Bioethanol (as available at the station), when using Ethanol Biofuel at a mix ratio of up to 85% (Bioethanol – E85).

The FORD WSS-M2C931-D specification requires the lubricant to be both API SN Plus and 5W-50 in order to perfectly lubricate certain high-performance FORD petrol engines such as Focus RS 2.3 EcoBoost AWD and Ford GT produced from 2016, and Mustang GT350, GT350R from 2018.

FORD WSS-M2C931-D specification also covers previous versions, i.e. FORD WSS-M2C931-C and 931-B recommended for the Ford Mustang GT V8 5.0L, Boss 302 V8 5.0L, Mustang GT350 from 2015 and Shelby GT500 from 2006; and FORD WSS-M2C931-A recommended for the Ford GT V8 5.4L from 2004-2006.

The FORD WSS-M2C931-E1 specification requires the lubricant to be 100% synthetic, API SN Plus and 5W-50 in order to perfectly lubricate some high-performance FORD petrol engines such as the pick-up F-150 5.2 V8 4x4 Raptor R from 2022.

MOTUL 8100 POWER 5W-50 allows excellent oil flow into the engine and is particularly resistant to high temperatures to allow better control of oil consumption and provide higher wear protection. Its optimized high viscosity grade SAE 5W-50 brings maximum reliability to your engine and high protection against fuel dilution.

RECOMMENDATIONS

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

MOTUL 8100 POWER 5W-50 can be mixed with synthetic or mineral oils.

Before use always refer to the owner manual of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	5W-50
Density at 20°C (68°F)		0.847
Viscosity at 40°C (104°F)	ASTM D445	106.9 mm ² /s

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Viscosity at 100°C (212°F)	ASTM D445	17.9 mm²/s
HTHS viscosity at 150°C (302°F)	ASTM D4741	4.3 mPa.s
Viscosity Index	ASTM D2270	187.0
Pour point	ASTM D97	-45.0 °C / -49.0 °F
Sulfated Ash	ASTM D874	% weight 0.79
TBN	ASTM D2896	7.9 mg KOH/g
Flash point	ASTM D92	238.0 °C / 460.0 °F



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STANDARDS	
API	PERFORMANCE SP
OEM PERFORMANCES	
FORD	WSS-M2C931-D, WSS-M2C931-E1

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