



# 8100 POWER 5W-50

**High Performance engine oil - Gasoline**

**100% Synthetic – *ESTER***

## **TYPE OF USE**

High Performance 100% Synthetic - *ESTER* engine oil inspired from the competition and specially designed for Gasoline 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 Gasoline engines requiring an API SN Plus 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 Gasoline fuels, leaded or unleaded, Ethanol, LPG, and biofuels.

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

## **PERFORMANCES**

STANDARDS	API PERFORMANCE SN PLUS
SPECIFICATIONS	FORD WSS-M2C931-D

***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 gasoline 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 gasoline engines, which are equipped with direct injection systems and turbochargers, API has developed the API SN Plus standard for engine lubricants in order to guarantee the perfect integrity of these gasoline engines facing the risk of these abnormal combustions.

MOTUL 8100 POWER 5W-50 meets all these very highly demanding requirements of performance and durability, including in particular for API SN Plus 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 Gasoline 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.

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 not definitive from the order which is subject to our general conditions of sale and warranty.

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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	<b>5W-50</b>
Density at 20°C (59°F)	ASTM D1298	0.848
Viscosity at 40°C (104°F)	ASTM D445	117.2 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	18.0 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	170
TBN	ASTM D2896	8.3 mg KOH/g