



# 8100 Eco-nergy 5W-30



## Fuel Economy Gasoline and Diesel lubricant

**100% Synthetic**

### TYPE OF USE

**Fuel Economy Engine Oil**, 100% Synthetic, specially designed for recent engines, powered by turbo Diesel direct injection or Gasoline engines, requiring use of a low friction and low HTHS (High Temperature High Shear) viscosity oil.

Suitable for new technology engines powered with turbo Diesel or Gasoline engines requiring fuel economy lubricants : ACEA A1/B1 or A5/B5 standards.

Compatible with catalytic converters.

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

### PERFORMANCES

STANDARDS                      ACEA **A5 / B5**    API **SL / CF**

HOMOLOGATIONS            **FORD WSS M2C 913C**  
Renault **RN0700** under N° RN700-10-69

The ACEA A5/B5 performance requests from the lubricant a real fuel economy and low emission performance for powerful engines : MOTUL 8100 Eco-nergy 5W-30 has synthetic base stocks and specific friction modifier molecules that provide outstanding oil film resistance, reduce friction in the engine, maintain the oil pressure, and generally decrease operating temperatures. MOTUL 8100 Eco-nergy 5W-30 provides outstanding lubricating properties such as wear protection and high temperature resistance for better controlled oil consumption along with up to 10% fuel economy during start up and short journeys around town (compare to a 15W-40 reference oil).

**Environment friendly, this type of oil allows fuel consumption reduction and therefore minimises green house gases (CO<sub>2</sub>) emissions.**

Specially developed in order to meet the most recent technical requirements for FORD Gasoline and Diesel engines when a lubricant satisfying FORD WSS M2C 913 C is required. The new FORD WSS M2C 913 C standard allows fully backward compatibility over previous FORD WSS M2C 913 A and 913 B specifications.

Combined to ACEA A5/B5 performance for lubricant, MOTUL 8100 Eco-nergy 5W-30 provides real energy conserving performance (0.5% additional fuel economy compare to 913 B) in order to meet FORD commitment for CO<sub>2</sub> reduction.

The 913C specification requires also an extra high oil film resistance for the lubricant to guarantee the viscosity capability over the whole oil drain interval. This characteristic is even more important in the current sustainability context and use of bio fuels such as biodiesel. MOTUL 8100 Eco-nergy 5W-30 guarantees outstanding lubricating properties such as wear resistance when using biodiesel at a mix ratio of 7% (Biodiesel - B7).

Specification FORD WSS M2C 913C also include higher soot handling capacity (up to +40%) compare to 913B. With its unique dispersant formulation MOTUL 8100 Eco-nergy 5W-30 avoids black sludge and viscosity increase that soot, coming from combustion residues, may create. Therefore, high temperature resistance and high oxidation resistance are ensured during the whole duration of the oil drain interval and your engine is fully protected.

RENAULT has developed RN0700 standard 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.

## **RECOMENDATIONS**

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

MOTUL 8100 Eco-nergy 5W-30 can be mixed with synthetic or mineral oils.

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

## **PROPERTIES**

Viscosity grade	SAE J 300	<b>5W-30</b>
Density at 20°C (68°F)	ASTM D1298	0.848
Viscosity at 40°C (104°F)	ASTM D445	57 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	10 mm <sup>2</sup> /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.4 mPa.s
Viscosity index	ASTM D2270	163
Pour point	ASTM D97	-36°C / -33°F
Flash point	ASTM D92	226°C / 439°F
Sulfated ash	ASTM D874	0.98% weight
TBN	ASTM D2896	10.3 mg KOH/g