

### GRAND TOURING 5W-40

### PRODUCT DESCRIPTION



Grand Touring 5W-40 is a 100% synthetic engine oil for use in modern low emission four cycle diesel and gasoline engines, which require application of "Low SAPS" oils with limited levels of sulfur, phosphorus and ash.

The product is manufactured using the unique antifriction technology ZFM  $^{\text{TM}}$  from synthetic base stocks (including PAO), with excellent stability and a high viscosity index. The product possesses outstanding protective characteristics, reduces wear of engine parts in highly loaded operating conditions.

Grand Touring 5W-40 maintains optimal engine cleanliness, effectively prevents formation of varnish, burnout and low-temperature deposits. The product is fully compatible with three way catalytic converters (TWCs).

### APPLICATION

- Grand Touring 5W-40 is recommended for highly effective protection of engines of passenger cars and commercial vehicles in severe duty operation with extremely high loads when oil has no sufficient time to cool.
- Grand Touring 5W-40 perfectly suits for older engines, which require engine oils with previous Service Categories API SM/SL.

### **CUSTOMER BENEFITS**

- The use of antifriction technology ZFM™ effectively reduces wear of parts, operating under boundary lubrication, and contributes to extending engine durability.
- The balanced formulation of Grand Touring 5W-40 has high stability and excellent anti-oxidizing properties that allows to operation with extended service intervals.
- The product meets requirements of "Low SAPS" oils in terms of sulfur, phosphorous and sulfated ash limits, which are essential for long life of three way catalytic converters (TWCs).



 The product contributes to minimizing emission and fully meets the latest stringent environmental standards.

## MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- API SN/CF;
- ACEA A3/B4;
- Mercedes-Benz 229.31 / 299.51;
- Porsche A40 2014 (approval No 1142).

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

### TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	ASTM
SAE Grade		5W-40	
Kinematic viscosity at:			
40 °C	cSt	98.19	ASTM 445
100°C	cSt	15.85	ASTM 445
Flash point	۰C	226	ASTM D92
Pour point	۰C	-42	ASTM D97
Density at 30 °C	Kg/l	0.8480	ASTM D4052
Dynamic viscosity at -30°C, CCS	cPs	5962	ASTM D5293
Total Base Number, TBN	mgKOH/g	7.76	ASTM D2896
Viscosity index		172	ASTM D2270
Color		L3.0	ASTM D1500

### STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Cans, packed in cardboard boxes, must be stored in dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.

# HEALTH, SAFETY AND ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

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