

# QUARTZ INEO MC3 5W-40



**Synthetic technology and Low SAPS oil developed for BMW, Volkswagen and Mercedes-Benz and Porsche engines.**

## USES

- TOTAL QUARTZ INEO MC3 5W-40 complies with the latest international ACEA and API standards and satisfies the most demanding car manufacturers' requirements.
- This 5W-40 multigrade lubricant suits arduous conditions (urban use, sporting and motorway)
- Recommended for all recent engines equipped with multivalves, turbocharges and direct injection engines.
- Specifically formulated for engines operating anti-pollution devices such as Diesel particulate filters and three-way catalyst.
- Its Low SAPS technology (Low Sulfated ashes, Phosphorus and Sulfur) ensures the highest level of performance for after-treatment components.

## PERFORMANCES

<b>International Specifications</b>	<b>ACEA 2008 :</b>	C3
	<b>API :</b>	SM/CF
<b>Car manufacturers*</b>	<b>MERCEDES-BENZ:</b>	229.51 and 229.31
	<b>BMW :</b>	LL-04
	<b>VOLKSWAGEN:</b>	502.00 / 505.00 / 505.01
	<b>PORSCHE :</b>	A 40
	<b>FORD :</b>	Satisfies latest requirements for FORD WSS-M2C 917-A
	<b>FIAT :</b>	Satisfies latest requirements for FIAT 9.55535-S2

**Reduce environmental impact**

- Its Low SAPS technology (Sulfated Ashes, Phosphorus and Sulfur) reinforces the action of Diesel Particulate Filters and three way catalysts, reducing Nox, CO and CO2 emissions in compliance with EURO V standards and car manufacturer's constraints.

**Protection and efficiency**

- Increases the after-treatment devices' lifespan by avoiding early filling.
- Guaranties engine parts protection and great engine efficiency.

**Long drain intervals**

- Ensures an exceptional engine durability and satisfies the maintenance plans of the most demanding manufacturers by allowing extra long drain intervals (20'000 to 40'000 kms), thanks to exceptional oxidation resistance

## CHARACTERISTICS

TOTAL QUARTZ INEO MC3	Method	Unit	Grade 5W-40
Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	83,9
Viscosity at 100°C	ASTM 445	mm <sup>2</sup> /s	13,9
Viscosity index	ASTM D2270	-	170
Pour point	ASTM D97	°C	- 42
Flash Point	ASTM D92	°C	240
B.N.	ASTM D2896	mgKOH/g	7,5

*The values of the characteristics appearing in this table are typical values given as an indication  
\*Please refer to the car's maintenance manual*

**TOTAL LUBRIFIANTS**  
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**QUARTZ INEO MC3**  
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This lubricant used according to our recommendations and for the application for which it is planned does not present a particular risk. A card of data of safety in conformity with the legislation in force in the E.C. is available near your commercial adviser.