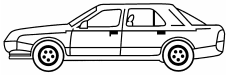


QUARTZ 9000 ENERGY 5W-40



Very high performance lubricant using TOTAL synthetics technology, intended for Gasoline and Diesel car engines.

APPLICATIONS

- TOTAL QUARTZ 9000 ENERGY 5W-40 has been developed for for all **Gasoline** engines (multivalve, turbocharged, with or without catalytic converter) and all **Diesel** engines – **with or without turbocharging** – in **cars** and **light vans**, which are non equipped with a **Diesel particulate filter**.
- TOTAL QUARTZ 9000 ENERGY 5W-40 is suitable for **all journeys** (in town, on highways and motorways) and particularly in **severe conditions**.
- TOTAL QUARTZ 9000 ENERGY 5W-40 fully adapted for **all driving styles**, particularly “vigorous” and high speeds in particular for “**Vigorous**” driving
- TOTAL QUARTZ 9000 ENERGY 5W-40 is specially designed to meet the needs of the motor manufacturers regarding **extended oil change intervals**.

PERFORMANCES

International specifications

ACEA
API

ACEA : A3/B4
SL/CF

OEMs approvals

MERCEDES- BENZ
VOLKSWAGEN
BMW
GENERAL MOTORS
PORSCHE

MB page 229.3
VW 502.00/VW 505.00
BMW Longlife 98
GM-LL-B025

CUSTOMER BENEFITS

Optimal performance

- Excellent engine protection, particularly against timing system wear

Excellent engine cleanliness and protection

- Ensures maximum engine cleanliness

Facilitates cold starts

- Outstanding thermal stability, oxidation resistance eliminating any degradation even in very severe use

Lengthens engine life

- Immediate lubrication of engine parts during cold starts, leading to longer engine life

Extended oil change intervals

- Meets the requirements of the manufacturers as regards extended oil change intervals.

CHARACTERISTICS

TOTAL QUARTZ 9000 ENERGY 5W-40	Méthod	Units	SAE Grade 5W-40
Density at 15°C	ASTM D1298	kg/m ³	853
Viscosity at 40°C	ASTM D445	mm ² /s	85.1
Viscosity at 100°C	ASTM 445	mm ² /s	14,05
Pour Point	ASTM D97	°C	-39
Flash Point	ASTM D92	°C	228
B.N.	ASTM D2896	mgKOH/g	10,1

The typical characteristics mentioned represent mean values

TOTAL LUBRIFIANTS
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92800 PUTEAUX
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QUARTZ 9000 ENERGY 5W-40
Février 2007
MPC /02/07



This lubricant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant.