TOTAL QUARTZ 9000 FUTURE GF5 5W-20

Engine oil

KEY DATA

LIGHT VEHICLE RANGE

GASOLINE ENGINE OIL
SAE 5W-20
ADVANCED SYNTHETIC TECHNOLOGY
FUEL ECONOMY

INTERNATIONAL STANDARDS

- API SN & ILSAC GF-5
- Backward compatible for API SM, SL & ILSAC GF-4, GF-5

MANUFACTURER APPROVALS[1]

- Meets the technical requirements of many American and Asian manufacturers in particular.

[1]Please refer to car owner's manual

TECHNOLOGY

Age-Resistance technology

The next gen oil for outstanding protection.

Age-Resistance technology provides expert protection, to fight everyday challenges in the long term.

Age-Resistance technology offers unbeatable engine protection. It's unique combination of hyperactive molecules creates a strong thick oil film on all concerned engine parts. Engines are absolutely protected against a variety of challenges, from wear to oil oxidation even at extreme temperatures.

APPLICATIONS

Synthetic technology engine oils that provide the best protection against wear and deposits. The post-treatment systems for petrol engines, which are sensitive to the lubricants used and expensive to maintain, are also protected over the long-term thanks to the product's low phosphorus content.

These fluid engine oils reduce internal friction within the engine as much as possible so that it can deliver full power, while at the same time generating fuel savings.

Using these engine oils can help generate fuel savings without the need to change driving style. These are also suitable for the most demanding driving conditions (door-to-door, sporty driving styles, repeated start-ups, city and motorway driving).

TOTAL QUARTZ 9000 FUTURE GF5 are particularly well-suited for use with the latest "Downsized" engines equipped with Stop & Start technologies and hybrid engines which require very fluid synthetic engine oils. These oils are able to service a wide scope of engines thanks to the fully backward compatibility of API and ISLAC sequences.

CUSTOMERS BENEFITS

- Reduced environmental impact: 3.1% reduction in fuel consumption, as measured by the official ILSAC test: sequence VI D. It meets all of the performance levels claimed by brands such as HONDA, TOYOTA and MITSUBISHI in relation to environmental standards.
- Protection for pollution-control systems: With its low phosphorus content, this lubricant also optimises the way in which three-way catalytic converters operate, preventing them from getting damaged through poisoning. This reduces NOx, HC and CO in particular.
- Engine protection and cleanliness: This oil offers the best possible protection in its category against wear and deposits as soon as the engine has started up.
- Easier cold starts: The 0W- grades, together with special additives, makes cold engine starts easier, even at very low temperatures.
- Oil change intervals: To be modified based on the usage, please always refer to the car owner's manual.

CHARACTERISTICS[2]

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	5W-20
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	45.93
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	8.22
Density at 15°C	kg/m^3	ASTM D1298	850.4
Viscosity index	-	ASTM D2270	154
Pour point	°C	ASTM D97	-40
OC Flash point	°C	ASTM D92	244

[2] The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at http://sdstotalms.total.com.

This product should not be used for any purposes other than the ones for which it is intended.

TOTAL LUBRIFIANTS – Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex
France

Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at www.lubricants.total.com.