

## Passenger cars and light commercial vehicles engine oils

### LOTOS QUAZAR SAE 5W-40

Newest generation, synthetic motor oil. The Hi-Tec protection formula ensures full and continuous protection against wear and tear of modern engines in all operational conditions. Designed especially to fulfil the ACEA C3 quality specification requirements.

#### Characteristics:

- Designed for petrol and diesel engines equipped with particle filters if use of ACEA C3 grade oil is approved by the manufacturer.
- May be used for cars produced before 2009 where the use of ACEA A3/B4 quality oils is required
- May be used in engines equipped with pump-injection units.
- Due to high-tech formula the oil may be applied for standard and prolonged change intervals depending on manufacturer's recommendations (maximum drains recommended by manufacturers)
- Guarantees optimal work of engines where the use of oils of such quality and viscosity grades is recommended
- Is composed of optimal combination of multi-task improvement additives featuring reduced level of phosphorus, sulphur and sulfated ashes (reduced SAPS level).

No.	Requirements	Research methods by	Unit	Value
1.	Kinematic viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	13,5-16,3
2.	Flow temperature, max	ASTM D 97	°C	-36
3.	Flash point, min	ASTM D 92	°C	210
4.	Viscosity index, min	ASTM D 2270		160
5.	HTHS viscosity at 150°C, min	ASTM D 4683	mPa*s	3,5
6.	Basic number, min	ASTM D 2896	mgKOH/g	6,0
7.	CCS viscosity at - 30 °C, max	ASTM D 5293	mPa*s	6600

The above data consists of values typical for a production batch, which are not included in technical specifications, and are subject to change due to continual product research and development.

#### Specifications, classifications:

SAE 5W-40; API SN/CF; ACEA C3

#### Approved by:

VW 502.00/505.00/505.01

MB-Approval 229.51, MB-Approval 229.31

Porsche A40

Ford WSS-M2C-917A

**Meets the requirements of:**

BMW Longlife-04

Renault RN 0710/RN 0700

**Packaging:**

1l, 4l, 50kg, 180kg

**Storage:**

All packages should be stored under a roof. If they are stored in the open air where they can be exposed to atmospheric conditions - rain, they should be placed in a horizontal position, so as to prevent ingress of water and prevent the destruction of marking, it is best to use canvas.

The product can not be stored at a temperature higher than 60 ° C, can not be exposed to direct sunlight or temperatures below 0 ° C. The expiry date for use under the conditions of storage is 3 years.

**Health, Occupational Health and Safety, Environment:**

Safety information is included in the Materials Safety Data Sheet (MSDS Safety Data Sheet). It contains detailed information on the potential hazards, precautions and First Aid measures, together with information on the impact on the environment and the disposal of used products.

LOTOS Oil Sp. z o. o. and cooperating companies do not take responsibility for the consequences of improper product use or non-use of the precautions. Before using the product for purposes other than those listed, please consult your local LOTOS Oil Sp. z o. o. office.

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