

# QUAKER STATE® 5W-20 SYNTHETIC BLEND MOTOR OIL

## TECHNICAL DATA SHEET



Whether driving your vehicle in stop-and-go traffic or pulling heavy loads, hard-working vehicles experience stress that can break down oil and lead to friction-related wear. Quaker State® synthetic blend is specially formulated to resist breakdown and deliver more performance<sup>1</sup>. It is also dexos 1™ Gen 2 approved for use in all GM vehicles with gasoline engines. Protects modern turbocharged engines – API SN PLUS, API SN-Resource Conserving and all previous categories.

1 Compared to Quaker State® Conventional

### PERFORMANCE, FEATURES & BENEFITS

- Better protection against friction-related wear,<sup>2</sup> especially as temperatures increase.
- Improved resistance to engine stress at high RPM's, short trips and under heavy loads.
- Enhanced resistance to thermal and viscosity breakdown.
- Better protection in low and high temperatures.
- Low-Speed Pre-Ignition (LSPI) protection for modern turbocharged engines.

2 Compared to Quaker State® Conventional.

### MAIN APPLICATIONS

Quaker State® Synthetic Blend is recommended for use in all vehicles requiring the use of SAE 5W-20 viscosity grade engine oils under all driving conditions. SAE 5W-20 viscosity grade oils are commonly recommended for use in many new vehicles with modern engine technology for maximum fuel economy and performance.

It is also suitable for use in modern direct injection turbocharged gasoline engines where it provides protection against damaging low-speed pre-ignition (LSPI).

Quaker State® Synthetic Blend can be mixed with other synthetic and mineral oils and is recommended for use in all vehicle applications under all driving conditions. SAE 5W-20 may not be suitable for use in older engines, so always consult your owner's manual for the correct viscosity grade and performance recommendation required for your vehicle.

### SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

- Chrysler MS 6395
- Ford WSS-M2C945-A, M2C945-B1
- General Motors dexos1™ Gen 2 (license D10077GE014)

Exceeds the requirements of the following industry specifications:

- API SN-Resource Conserving and all previous Categories
- API SN PLUS
- ILSAC GF-5

For a full listing of equipment approvals and recommendations, please consult your local Technical Helpdesk.

To find the right Quaker State® product for your vehicles and equipment, please consult [www.quakerstate.com](http://www.quakerstate.com) to look-up the right motor oil recommendation using our oil selector.

# QUAKER STATE® 5W-20 SYNTHETIC BLEND MOTOR OIL

## TYPICAL PHYSICAL CHARACTERISTICS

Properties		Method	Quaker State® Synthetic Blend Motor Oil
SAE Viscosity			5W-20
API Service Category			SN PLUS, SN-Resource Conserving
ILSAC			GF-5
GM			dexos 1™ Gen 2
ACEA			N/A
Density	kg/m <sup>3</sup>	ASTM D4052	835
Flash Point	°C	ASTM D93	235
Pour Point	°C	ASTM D97	-48
Kinematic Viscosity	@ 40°C mm <sup>2</sup> /s	ASTM D445	46.65
Kinematic Viscosity	@ 100°C mm <sup>2</sup> /s	ASTM D445	8.40
Viscosity Index		ASTM D2270	158
CCS Viscosity	@-30°C cP	ASTM D5293	3 670
MRV Viscosity	@-35°C cP	ASTM D4684	8 200

These characteristics are typical of current production. While future production will conform to Quaker State's® specification, variations in these characteristics may occur.

## HEALTH, SAFETY & ENVIRONMENT

### Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <http://www.epc.shell.com>

### Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## ADDITIONAL INFORMATION

### Advice

Advice on applications not covered here may be obtained from your Quaker State® Lubricants distributor representatives or technical helpdesks.