



Quaker State

QUAKER STATE[®] ULTIMATE DURABILITY EUROPEAN 5W-40 MOTOR OIL

PRODUCT DESCRIPTION

QUAKER STATE[®] ULTIMATE DURABILITY EUROPEAN 5W-40 FULLY SYNTHETIC MOTOR OIL, is specially formulated to protect today's sophisticated European engines. These smaller modern high performance engines produce more horsepower, have tighter tolerances and produce more heat than ever before.

Increased heat can mean increased friction and oxidation, which could ultimately rob your engine of performance. QUAKER STATE[®] ULTIMATE DURABILITY EUROPEAN 5W-40 FULLY SYNTHETIC MOTOR OIL contains **Heat Activated Additives** – a unique formulation specifically designed to maintain wear protection and viscosity in high revving and extreme high heat conditions, including stop and go city driving. As your engine temperature increases, a heat-activated friction modifier, and anti-wear system kick in to maintain the oil's wear protect. This advanced protective layer helps reduce metal to metal friction. Special anti-oxidants also resists oxidation and thermal breakdown of the oil. In addition, the unique viscosity modifier system resists shearing to help maintain the proper viscosity.

APPLICATION

The unique properties of QUAKER STATE[®] ULTIMATE DURABILITY EUROPEAN 5W-40 FULLY SYNTHETIC MOTOR OIL are especially apparent in the following applications:

- European vehicles
- Technologically advanced engines
- High performance engines
- Vehicles that are driven in very hot or cold weather

FEATURES

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- Special formulation to resist wear and viscosity loss in severe driving conditions.
- Meets or exceeds API SM and prior Service Classifications
- Meets or exceeds the requirements for BMW LL-01.
- Meets or exceeds MB approval 229.5/229.3.
- Meets or exceeds VW 502 00, 503 01, 505 00.
- Meets or exceeds Porsche A40.
- Meets or exceeds Chrysler MS-10725
- Meets or exceeds the European ACEA A3/B3/B4.

Benefits.

Wear Protection.

Superior wear protection*.

Oxidation Control.

High resistance to oxidation, keeping the oil fresher for longer.

Oil Flow.

Superior lubrication flow and pumpability at high and low temperature **.

Engine Cleanliness.

Excellent protection against formation of sludge and other harmful deposits***.



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*Sequence IVA wear test on 5W-40 engine oil.

** Comparison against Quaker State Advanced Durability Motor Oil

***Sequence IIIIG & VG tests on 5W-40 engine oil

HEALTH & SAFETY

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Pennzoil representative.

PROTECT THE ENVIRONMENT

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

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

QUAKER STATE[®] ULTIMATE DURABILITY EUROPEAN 5W-40 FULLY SYNTHETIC MOTOR OIL.

TEST	METHOD	TYPICAL RESULTS
Viscosity Grade.		5W-30
API Service		SM/CF



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ACEA		A3/B3/B4
Gravity, °API	ASTM D-287	34.8
Specific Gravity @ 60°F(15.6°C)	ASTM D-287	0.851
Viscosity		
@ 40°C, cSt	ASTM D-445	74.4
@ 100°C, cSt	ASTM D-445	13.10
Viscosity Index	ASTM D-2270	162
Flash Point, °F	ASTM D-93	440
Pour Point, °C	ASTM D-97	-39
CCS Viscosity, cP (°C)	ASTM D-5293	6,280 (-30)
MRV Viscosity, cP (°C)	ASTM D-4684	12,800 (-35)
HT/HS Viscosity, cP (°C)	ASTM D-4683	3.5
Noack Volatility, %	ASTM D-5800	12.0

* Meets engine protection requirements

These characteristics are typical. While future production will conform to Quaker State® specifications, variations in these characteristics may occur. The information contained herein is subject to change without notification.