



High Performance Motor Oil EUROPEAN FORMULATION

Royal Purple® High Performance Motor Oil European Formulation SAE 0W-40 and SAE 5W-40 are formulated exclusively with premium synthetic base stocks and advanced additive technology to deliver trusted engine protection and peak vehicle performance. Royal Purple European Formulation motor oils provide excellent resistance to sludge and varnish deposits during stop-and-go driving and other severe operating conditions. Recommended for use in European passenger car gasoline/petrol engines, and light duty diesel engines including turbocharged and direct injection diesel engines with a diesel particulate filter (DPF) and selective catalysts. Premium synthetic formulation delivers excellent oxidation stability and low volatility properties, resulting in reduced oil consumption between services.

PERFORMANCE ADVANTAGES

- BETTER WEAR PROTECTION - Protects engine components from wear beyond the requirements of API SP and ACEA A3/B4
- INCREASED FUEL EFFICIENCY - A low coefficient of friction results in optimized fuel efficiency
- SUPERIOR LOW-TEMPERATURE PERFORMANCE - Low-temperature flow ensures lubrication and protection for cold starts
- SUPERIOR CORROSION PROTECTION - No rust observed in standard industry testing
- EXCELLENT OXIDATION STABILITY –Long lubricant life; meets or exceeds the oil change intervals for most Euro passenger cars

OEM SPECIFICATIONS

- BMW LL-01
- MB 226.5, 229.3 & 229.5
- Porsche A40
- PSA B71 2296
- RN 0700/0710
- VW 502.00 & 505.00

Typical Physical Properties			
Property	Test Method	0W-40	5W-40
API Service		SP	SP
ACEA Service		A3/B4-21	A3/B4-21
Viscosity @ 40°C, cSt	ASTM D445	79.0	80.3
Viscosity @ 100°C, cSt	ASTM D445	14.0	13.4
Viscosity Index	ASTM D2270	183	170
Flash Point, °C (°F)	ASTM D92	232 (450)	234 (453)
Pour Point, °C (°F)	ASTM D97	-48 (-54)	-45 (-49)
Cold Crank Simulator, cP	ASTM D5293	5,997 @-35°C	5,887 @-30°C
TBN, mg KOH	ASTM D2896	12.3	12.3
HTHS, @150°C, cP	ASTM D5481	3.6	3.6

* Unlicensed motor oil; meets or exceeds all API SN performance requirements

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