



The First in Synthetics®

European Car Formula 5W-40 Synthetic Motor Oil

Mid-SAPS European Oil for European Gasoline and Diesel Engines

AMSOIL European Car Formula 5W-40 Mid-SAPS Synthetic Motor Oil is specially formulated for the lubrication needs of modern European gasoline and diesel cars and light trucks. Formulated with advanced AMSOIL synthetic base stocks, premium additives and a 5W-40 viscosity rating, AMSOIL European Car Formula 5W-40 Synthetic Motor Oil is highly versatile for multiple applications. Its mid sulfated ash, phosphorus and sulfur (SAPS) formulation provides excellent protection for emissions systems.

AMSOIL, the leader in automotive synthetic lubrication, produced the world's first API-qualified synthetic motor oil in 1972. Trust the extensive experience of AMSOIL, The First in Synthetics®, to do the best job protecting your engine.

Maximum Engine Protection

AMSOIL European Car Formula Synthetic Motor Oil contains high-quality anti-wear additives and surpasses the tough ACEA oil specifications for high-temperature/high-shear viscosity. It provides outstanding protection in high-rpm, hot-running engines and delivers dependable long-term performance for the extended drain intervals set by European automakers.

Superior Engine Cleanliness

The excellent oxidation stability, heat resistance and detergency properties of AMSOIL European Car Formula Synthetic Motor Oil help keep engines clean. It is specially designed to prevent sludge and varnish deposits for reduced oil consumption, extended engine life and maximum overall performance.

Minimizes Exhaust Emissions

The mid-SAPS formulation of AMSOIL European Car Formula is designed to protect newer vehicle emissions control systems. It meets current industry and vehicle manufacturer requirements for long-life protection of gasoline vehicle catalytic converters and diesel particulate filters (DPF).

All-Season Performance

The broad 5W-40 viscosity rating, low volatility (burn-off) and wax-free nature of AMSOIL European Car Formula Synthetic Motor Oil make it excellent for hot and cold temperatures. It helps reduce engine wear, control oil thickening and provide easier cold starts.



API SN/SM...
ACEA C3
BMW LL-04
GM dexos2™
Mercedes-Benz 229.51/229.31
Porsche A40
Volkswagen 502.00/505.01



TYPICAL TECHNICAL PROPERTIES

European Car Formula 5W-40 Mid-SAPS Synthetic Motor Oil (AFL)

Kinematic Viscosity @ 100°C, cSt (ASTM D 445)	13.7
Kinematic Viscosity @ 40°C, cSt (ASTM D 445)	82.9
Viscosity Index (ASTM D 2270)	171
Viscosity CCS, cP @ °C (ASTM D 5293)	5314 (-30)
Flash Point °C (°F) (ASTM D 92)	228 (442)
Fire Point °C (°F) (ASTM D 92)	244 (471)
Pour Point, °C (°F) (ASTM D 97)	-43 (-45)
NOACK Volatility, % weight loss (g/100g) (ASTM D 5800)	7.4
Four-Ball Wear Test (ASTM D 4172B @ 40 kg, 75°C, 1200 rpm, 1hr), Scar, mm	0.44
Total Base Number	8.0
HT/HS (cP) (ASTM D 5481)	3.8

APPLICATIONS

AMSOIL European Car Formula Synthetic Motor Oil is formulated to meet or exceed the most demanding European specifications. It is recommended for European gasoline or diesel vehicles requiring any of the following performance specifications:

- API SN/SM...
- ACEA C3
- BMW LL-04
- GM dexos2
- Mercedes-Benz 229.51/229.31
- Porsche A40
- Volkswagen 502.00/505.01

SERVICE LIFE

Recommended for the extended drain intervals established by the vehicle manufacturer. Change oil filter at time of oil change.

COMPATIBILITY

AMSOIL European Car Formula is compatible with conventional and synthetic motor oils. Mixing AMSOIL motor oils with other oils, however, will reduce the performance benefits.

Aftermarket oil additives are **not recommended** for use with AMSOIL motor oils.

For AMSOIL warranty information, visit www.amsoil.com/warranty.aspx.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available via the Internet at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.



AMSOIL products and Dealership information are available from your local AMSOIL Dealer