



## European Car Formula 5W-30 Synthetic Motor Oil

### Low-SAPS, Low-Viscosity European Oil for European Gasoline and Diesel Engines

AMSOIL European Car Formula 5W-30 Low-SAPS Synthetic Motor Oil provides exceptional performance and protection for high-performance European vehicles. Its low-viscosity formulation maximizes fuel efficiency without compromising engine protection, while meeting strict European performance requirements for gasoline and direct-injection diesel engines calling for a 5W-30 oil. Formulated with low sulfated ash, phosphorus and sulfur (SAPS), AMSOIL European Car Formula 5W-30 Synthetic Motor Oil complies with modern emissions systems to provide optimum life and performance.

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.



**VW 504.00/507.00**  
**Mercedes-Benz 229.51**  
**BMW LL-04**  
**Porsche C30**

#### Stay-in-Grade Performance

Sophisticated European engines subject oil to severe operational conditions. Oils must demonstrate excellent high-temperature/high-shear (HT/HS) performance to maintain viscosity and provide adequate engine protection. AMSOIL European Car Formula 5W-30 Synthetic Motor Oil is engineered to stay in grade despite rigorous operation throughout the extended drain intervals European automakers recommend. Formulated with a select additive package and shear-stable synthetic base oils, it meets strict ACEA and VW HT/HS requirements to provide outstanding wear protection throughout the entire drain interval.

#### Low-SAPS Formulation

Excessive sulfated ash, phosphorus and sulfur (SAPS) in motor oil can harm modern exhaust treatment devices. Diesel particulate filters (DPFs), for example, require low-SAPS motor oil to resist filter plugging. AMSOIL European Car Formula 5W-30 Synthetic Motor Oil's lower-SAPS formulation promotes optimum emissions system performance and life, allowing reduced maintenance costs.

#### Maximum Fuel Economy

AMSOIL European Car Formula is engineered with a lighter 5W-30 viscosity and friction modifiers to reduce friction for increased energy through-put. It minimizes internal engine drag, providing an alternative for motorists currently using heavier-grade oils, but who desire maximum fuel efficiency.

#### Enhanced Turbocharger Protection

Turbocharged Direct Injection (TDI) engines commonly used in European vehicles require thermally stable oils that resist deposit formation and provide turbocharger cooling. Thermally stable oils help keep oil passages clean and promote fluid circulation so turbo bearings stay cool and lubricated.

AMSOIL European Car Formula 5W-30 Synthetic Motor Oil provides protection and performance for TDI systems in all temperature extremes. Its low pour point protects turbochargers against oil starvation and ensures rapid oil pressure in sub-zero conditions, while its thermal stability withstands high-temperature/high-RPM breakdown to resist deposit formations that can starve TDI systems of lubrication.



## TYPICAL TECHNICAL PROPERTIES

### European Car Formula Synthetic 5W-30 Low-SAPS Motor Oil (AEL)

Kinematic Viscosity @ 100°C, cSt (ASTM D 445)	12.2
Kinematic Viscosity @ 40°C, cSt (ASTM D 445)	75.4
Viscosity Index (ASTM D 2270)	158
Viscosity CCS, cP @ °C (ASTM D 5293)	5884 (-30)
Flash Point °C (°F) (ASTM D 92)	240 (464)
Fire Point °C (°F) (ASTM D 92)	260 (500)
Pour Point, °C (°F) (ASTM D 97)	-44 (-47)
NOACK Volatility, % weight loss (g/100g) (ASTM D 5800)	10.0
Four-Ball Wear Test (ASTM D 4172B @ 40 kg, 75°C, 1200 rpm, 1hr), Scar, mm.	0.45
Total Base Number	5.8
HT/HS (cP) (ASTM D 5481)	3.6

## APPLICATIONS

AMSOIL European Car Formula 5W-30 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:

- VW 504.00/507.00
- Mercedes-Benz 229.51
- BMW LL-04
- Porsche C30

## 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](http://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 Safety Data Sheet (SDS). An SDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and filter.



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