



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. Advanced AMSOIL synthetic base stocks, premium additives and a 5W-40 viscosity rating make AMSOIL European Car Formula 5W-40 Synthetic Motor Oil highly versatile. Its Mid-SAPS (sulfated ash, phosphorus and sulfur) 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 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

AMSOIL European Car Formula Synthetic Motor Oil delivers excellent oxidation stability, heat resistance and detergency to 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 is designed to protect newer vehicle emissions control systems. It meets current industry and vehicle manufacturer requirements for long-life protection of catalytic converters and diesel particulate filters (DPF).

All-Season Performance

The broad 5W-40 viscosity rating, low volatility (burn-off) and wax-free formulation make AMSOIL European Car Formula Synthetic Motor Oil excellent for extreme hot and cold temperatures. It helps control oil thickening for easier starts and maximum startup protection, while resisting elevated heat for long-lasting performance.



Manufacturer Approvals:*

- BMW Longlife-04
- MB-Approval 229.51
- Porsche A40

Recommended For:*

- ACEA C3
- API SN/SM/CF...
- Chrysler MS-10850 (supersedes MS-10896)
- Ford WSS-M2C917-A
- GM dexos2 (supersedes LL-A-025 and LL-B-025)
- Renault RN0700/RN0710
- Volkswagen 502.00/505.01



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TYPICAL TECHNICAL PROPERTIES

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

| | |
|---|------------|
| Kinematic Viscosity @ 100°C, cSt (ASTM D445) | 14.3 |
| Kinematic Viscosity @ 40°C, cSt (ASTM D445) | 88.5 |
| Viscosity Index (ASTM D2270) | 168 |
| Viscosity CCS, cP @ °C (ASTM D5293) | 5855 (-30) |
| Flash Point, °C (°F) (ASTM D92) | 224 (435) |
| Fire Point, °C (°F) (ASTM D92) | 240 (464) |
| Pour Point, °C (°F) (ASTM D97) | -40 (-40) |
| NOACK Volatility, % weight loss (g/100g) (ASTM D5800) | 10.0 |
| Four-Ball Wear Test (ASTM D4172B @ 40 kg, 75°C, 1200 rpm, 1hr), Scar, mm | 0.44 |
| Total Base Number | 8.0 |
| HT/HS (cP) (ASTM D5481) | 3.8 |

APPLICATIONS

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

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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.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete 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 Safety Data Sheet (SDS). An SDS 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.

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The First in Synthetics®

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