



## European Car Formula 5W-40 Synthetic Motor Oil

### Superior Protection and Performance for Gasoline and Diesel European Vehicles

AMSOIL European Car Formula 5W-40 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 the preferred oil for virtually all European automobiles, especially turbocharged models. AMSOIL European Car Formula is highly versatile for multiple applications.

*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

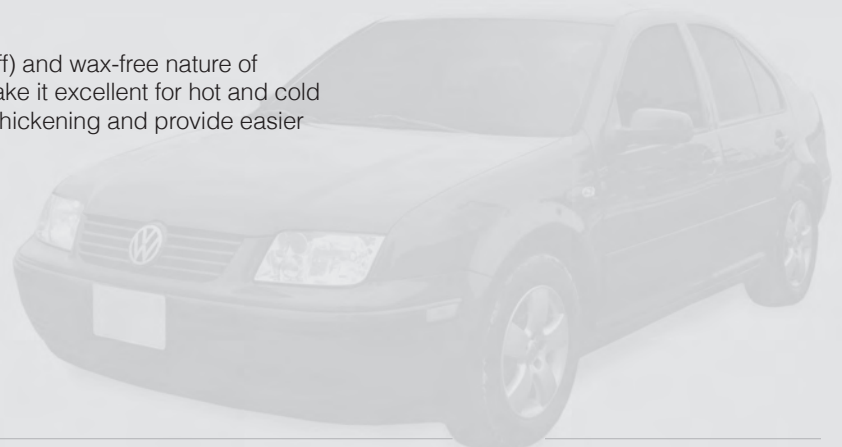
AMSOIL European Car Formula is designed for newer vehicle emission control systems. It meets current industry and vehicle manufacturer requirements for long-life protection of gasoline vehicle catalytic converters and diesel particulate filters (DPF).

#### 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.



**VW 505.01  
Mercedes-Benz 229.51  
BMW LL-04  
API SM/CF**



## TYPICAL TECHNICAL PROPERTIES

### European Car Formula 5W-40 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<br>(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 surpass the most demanding European specifications. It is recommended for European and North American gasoline or diesel vehicles requiring any of the following worldwide specifications:

- API SM/CF
- ACEA C3
- ACEA A3/B3
- ACEA A3/B4
- BMW LL-04
- Mercedes Benz 229.31, 229.51
- Porsche A40
- Saab
- Volvo
- Volkswagen 502.00, 505.00, 505.01
- Chrysler MS-10725

## SERVICE LIFE

Recommended for the extended drain intervals established by the vehicle manufacturer or extend based on oil analysis. Change oil filter at time of oil change.

## COMPATIBILITY

AMSOIL European Car Formula Synthetic Motor Oil is compatible with conventional and synthetic motor oils. Mixing AMSOIL motor oils with other oils, however, will shorten the oil's life expectancy and reduce its performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

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).



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