



## European Car Formula 0W-40 and 5W-40 Synthetic Motor Oil

### Full-SAPS European Oil for European Gasoline and Diesel Engines

AMSOIL European Car Formula Full-SAPS Synthetic Motor Oil is specially formulated for the lubrication needs of European gasoline and diesel cars and light trucks. Its full sulfated ash, phosphorus and sulfur (SAPS) formulation provides excellent protection and performance for a wide range of vehicles.

*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.*

#### Full-SAPS Formulation for Maximum Engine Protection

AMSOIL European Car Formula contains high-quality anti-wear additives and surpasses tough vehicle-manufacturer oil specifications. It provides outstanding protection in high-rpm, hot-running engines and delivers dependable long-term performance for the extended drain intervals recommended by European vehicle manufacturers.

#### Superior Engine Cleanliness

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

#### All-Season Performance

The broad 0W-40 and 5W-40 viscosity ratings, low volatility (burn-off) and wax-free nature of AMSOIL European Car Formula make it excellent for hot and cold temperatures. It helps reduce engine wear, control oil thickening and provide easier cold starts.

#### Excellent for Turbochargers

AMSOIL European Car Formula's robust formulation delivers outstanding protection against the extremely high temperatures produced by turbochargers.



API SN,SM...  
ACEA A3/B3, A3/B4  
BMW LL-01  
Mercedes-Benz 229.3, 229.5  
Porsche A40  
Renault 0710, 0700  
Volkswagen 502.00, 505.00



## TYPICAL TECHNICAL PROPERTIES

### European Car Formula Full-SAPS Synthetic Motor Oil

	0W-40 (EFO)	5W-40 (EFM)
Kinematic Viscosity @ 100°C, cSt (ASTM D 445).....	13.3	13.6
Kinematic Viscosity @ 40°C, cSt (ASTM D 445).....	74.7	83.3
Viscosity Index (ASTM D 2270) .....	182	168
CSS Viscosity cP (°C) (ASTM D 5293).....	5888 (-35)	5433 (-30)
Pour Point °C (°F) (ASTM D 97) .....	-51 (-60)	-39 (-38)
Flash Point °C (°F) (ASTM D 92).....	232 (450)	220 (428)
Fire Point °C (°F) (ASTM D 92).....	240 (464)	238 (460)
Noack Volatility, % weight loss (g/100g) (ASTM D 5800).....	9.9	8.7
Four-Ball Wear Test (ASTM D 4172B @ 40 kg, 75°C, 1200 rpm, 1 hr), Scar, mm.....	0.47	0.47
Total Base Number .....	10.1	10.1
High-Temperature/High-Shear Viscosity 150°C, 1.4 x 10 <sup>6</sup> s <sup>-1</sup> , cP (ASTM D 5481) .....	3.7	3.7

## 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 and diesel vehicles requiring any of the following performance specifications:

- API SN,SM...
- ACEA A3/B3, A3/B4
- BMW LL-01
- Mercedes-Benz 229.3, 229.5
- Porsche A40
- Renault 0710, 0700
- Volkswagen 502.00, 505.00

## 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 Material Safety Data Sheet (MSDS). An MSDS 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 bottle.



*The First in Synthetics*®

Jeff Fisher

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[www.SyntheticOils.us](http://www.SyntheticOils.us)

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.