



## XL Synthetic Motor Oil

### Extended-Drain Boost Technology

AMSOIL XL Extended Life Synthetic Motor Oil is designed to provide better wear control, improved high- and low-temperature protection and increased fuel economy compared to conventional oils. AMSOIL XL Synthetic Motor Oil is formulated with extended-drain boost technology. It provides superior performance for up to 10,000-miles/six months, or longer when recommended in owners' manuals or indicated by electronic oil life monitoring 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.*

#### Extended-Drain Boost Technology

During normal engine operation, the combustion process creates acidic by-products that can lead to internal component corrosion and a reduction in the life expectancy of the engine oil and engine itself. AMSOIL XL Synthetic Motor Oil is formulated with extended-drain boost technology. It employs high-quality synthetic base stocks and a unique additive chemistry to neutralize acids for extended periods. The extra additive package effectively raises the total base number (TBN), a measure of an oil's useful service life, and provides superior protection and performance throughout the entire drain interval.

#### Lowers Maintenance Costs

Cost-conscious motorists, business owners and fleet managers benefit from the extended drain intervals and wear protection of AMSOIL XL Synthetic Motor Oil. Frequent oil changes are expensive, time-consuming and inconvenient, while longer drain intervals reduce costs and environmental impact. Increased wear control can further reduce maintenance costs. With AMSOIL XL Synthetic Motor Oil, motorists realize the convenience and cost savings of extended drain intervals with excellent engine protection.

#### Improves Fuel Economy

XL Synthetic Motor Oil is formulated with friction modifiers to reduce friction-related energy loss. It excels in fuel-economy testing, earning the "Resource Conserving" designation from the API.



#### Maintains Low Emissions

AMSOIL XL Synthetic Motor Oil is friendly toward modern emissions control systems, promoting proper operation of catalytic converters for optimum service life and low exhaust emissions.

#### Protects in All Temperatures

AMSOIL XL is a multi-viscosity formulation. It resists the effects of thermal breakdown, including evaporation and viscosity loss, while remaining fluid in cold temperatures for easy cold starts and fast startup circulation.

#### Keeps Engines Clean

AMSOIL XL Synthetic Motor Oil is fortified with detergent and dispersant additives. It is engineered to resist sludge and carbon deposits better than conventional oils. It promotes clean operation for long-lasting, smooth-running engines.

#### Bid Appropriate

AMSOIL XL Synthetic Motor Oil fulfills the requirements of most public and private purchasing bids. It is cost-effective, making it ideal where synthetic motor oil is specified.

## TYPICAL TECHNICAL PROPERTIES

### AMSOIL XL Synthetic Motor Oil

	0W-20 (XLZ)	5W-20 (XLM)	5W-30 (XLF)	10W-30 (XLT)	10W-40 (XLO)
Kinematic Viscosity @ 100°C, cSt (ASTM D445) . . . . .	8.3	8.8	10.9	10.9	15.2
Kinematic Viscosity @ 40°C, cSt (ASTM D445) . . . . .	44.2	51.3	64.8	70.4	102.7
Viscosity Index (ASTM D2270) . . . . .	167	151	160	145	156
CCS Viscosity, cP @ (°C) (ASTM D5293) . . . . .	5790 (-35)	5357 (-30)	5524 (-30)	5854 (-25)	6288 (-25)
Flash Point °C (°F) (ASTM D92) . . . . .	226 (439)	226 (439)	226 (439)	232 (450)	236 (457)
Fire Point °C (°F) (ASTM D92) . . . . .	238 (460)	242 (467)	240 (464)	250 (482)	250 (482)
Pour Point °C (°F) (ASTM D97) . . . . .	-48 (-54)	-43 (-45)	-43 (-45)	-40 (-40)	-38 (-36)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800) . . . . .	12.5	9.9	10.5	5.7	7.0
High-Temperature/High-Shear Viscosity @ 150°C, 1.0 X 10 <sup>6</sup> s. <sup>-1</sup> , cP (ASTM D5481) . . . . .	2.7	2.8	3.3	3.3	4.2
Four-Ball Wear Test @ 40 kgf, 75°C, 1200 rpm, 1 hr, scar diameter, mm (ASTM D4172) . . . . .	0.46	0.44	0.44	0.44	0.44
Total Base Number (ASTM D2896) . . . . .	9.0	9.0	9.0	9.0	9.0

## APPLICATIONS

AMSOIL XL Synthetic Motor Oil is excellent for use in gasoline-fueled vehicles. It is recommended for all domestic and foreign vehicles requiring any of the following specifications:

**0W-20 (XLZ):** API SN (Resource Conserving), SM...; ILSAC GF-5, GF-4...; ACEA A1/B1; Chrysler MS-6395; Ford WSS-M2C947-A; GM dexos1™ (supersedes 6094M) *Fortified with detergents that exceed dexos1™ sulfated ash specifications.*

**5W-20 (XLM):** API SN (Resource Conserving), SM...; ILSAC GF-5, GF-4...; ACEA A1/B1; Ford WSS-M2C945-A, WSS-M2C930-A; Chrysler MS-6395; GM dexos1™ (supersedes 6094M) *Fortified with detergents that exceed dexos1™ sulfated ash specifications.*

**5W-30 (XLF):** API SN (Resource Conserving), SM...; ILSAC GF-5, GF-4...; ACEA A1/B1; Ford WSS-M2C946-A, WSS-M2C929-A, Chrysler MS-6395; GM dexos1™ (supersedes LL-A-025, 6094M and 4718M) *Fortified with detergents that exceed dexos1™ sulfated ash specifications.*

**10W-30 (XLT):** API SN (Resource Conserving), SM...; ILSAC GF-5, GF-4...; ACEA A1/B1; GM 6094M, 4718M; Chrysler MS-6395

**10W-40 (XLO):** API SN, SM

## COMPATIBILITY

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

Aftermarket oil additives are **not recommended** for use with AMSOIL XL Synthetic Motor Oil.

## SERVICE LIFE

In gasoline-fueled vehicles, AMSOIL XL Synthetic Motor Oil is recommended for up to 10,000-mile/six-month oil change intervals or longer when recommended in owner's manuals or indicated by electronic oil life monitoring systems. Change aftermarket, original equipment manufacturer or AMSOIL Ea® Oil Filter at every oil change.

## AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete 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 bottle.



**The First in Synthetics®**

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

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