



The First in Synthetics®

# 100% Synthetic 5W-30 Motor Oil

## Formulated for Superior Automotive Engine Lubrication

### PRODUCT DESCRIPTION

AMSOIL 100% Synthetic 5W-30 Motor Oil (ASL) delivers extraordinary lubrication in all types of automotive gasoline engines. By combining the industry premier synthetic technology with AMSOIL premium additives, AMSOIL ASL exceeds the higher performance demands of modern engines. It withstands the stress of higher horsepower, higher heat and complicated emission control systems. AMSOIL Synthetic 5W-30 Motor Oil consistently outperforms competitive conventional and synthetic motor oils. It delivers long-lasting performance and protection.

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.

### Extends Drain Intervals

AMSOIL Synthetic 5W-30 Motor Oil can extend drain intervals far beyond those recommended for conventional oils. Its unique synthetic formulation and long drain additive system are very stable, resisting oxidation and neutralizing acids. AMSOIL ASL delivers the best possible engine protection, cleanliness and performance over extended drain intervals, reducing vehicle maintenance and waste oil disposal costs.

### Maximizes Fuel Economy

AMSOIL Synthetic 5W-30 Motor Oil is designed to maximize energy efficiency for improved fuel economy. Unlike conventional oils, its uniform molecular structure helps it flow more freely and reduce friction between metal surfaces. Anti-friction additives are included to further improve energy efficiency.



### Reduces Engine Wear

AMSOIL Synthetic 5W-30 Motor Oil provides outstanding anti-wear protection. It has excellent viscosity film strength to separate metal surfaces and robust anti-wear additives to further reduce wear in metal-to-metal contact regions for improved engine life.

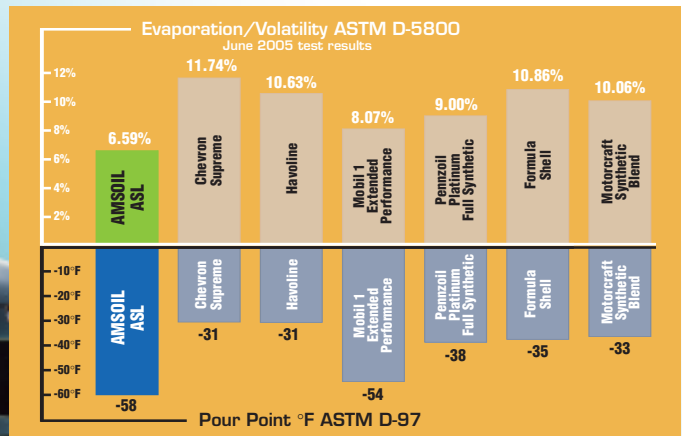
### Reduces Oil Consumption and Emissions

Volatility (burn-off) occurs when oil gets hot, causing high oil consumption and emissions. AMSOIL Synthetic 5W-30 Motor Oil has the lowest volatility rate of the oils tested, making it the best at controlling volatility-related oil consumption and emissions (see chart).

### Excels in Extreme Temperatures

AMSOIL Synthetic 5W-30 Motor Oil resists thermal (heat) breakdown better than conventional oils. It is heavily fortified with detergent and dispersant additives to prevent sludge deposits and keep engines clean. And unlike conventional oils, AMSOIL ASL contains no wax. It stays fluid down to -58°F for improved cold temperature oil flow, reduced bearing wear and easier starting (see chart).

### Less High-Temperature Evaporation With AMSOIL



### Lower Cold-Temperature Flow Properties With AMSOIL



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL 100% Synthetic 5W-30 Motor Oil (ASL)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.6
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	55.8
Viscosity Index (ASTM D-2270)	185
CCS Viscosity @ -30°C, cP (ASTM D-5293)	5106
Pour Point °C (°F) (ASTM D-97)	-50 (-58)
Flash Point °C (°F) (ASTM D-92)	228 (442)
Four-Ball Wear Test (ASTM D-4172B @ 40 kgf, 75°C, 1200 rpm, 1 hr), Scar, mm	0.35
Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	7.1
High-Temperature/High-Shear Viscosity (ASTM D-4683 @ 150°C, 1.0 X 10 <sup>6</sup> s. <sup>-1</sup> ), cP	3.2
Total Base Number	12.2

### APPLICATIONS

AMSOIL Synthetic 5W-30 Motor Oil is recommended for gasoline engines, diesel engines (API CF, ACEA B5) and other applications requiring any of the following worldwide specifications:

API SM/CF, SL, SJ ...  
ILSAC GF-4, 3 ...  
ACEA A5/B5-04  
JASO VTW  
GM 4718M, 6094M  
Ford WSS-M2C929-A  
Daimler Chrysler MS-6395N  
VW 503.00

### MIXING AMSOIL

AMSOIL ASL is compatible with conventional and synthetic motor oils. Mixing AMSOIL motor oils with other oils, however, will shorten the oil 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 motor oils.

### SERVICE LIFE

AMSOIL Synthetic 5W-30 Motor Oil is recommended for extended drain intervals in unmodified<sup>(1)</sup>, mechanically sound<sup>(2)</sup> gasoline fueled vehicles as follows:

- *Normal Service*<sup>(3)</sup> – Up to 25,000 miles or one year, whichever comes first.
- *Severe Service*<sup>(4)</sup> – Up to 15,000 miles or one year, whichever comes first.
- Replace AMSOIL Ea oil filter at the time of oil change up to 25,000 miles or one year, whichever comes first (other brands at standard OEM\* intervals).

- In all non-gasoline fueled vehicle applications, extend the oil change interval according to oil analysis or follow the OEM\* drain interval.

\*OEM – Original Equipment Manufacturer

- (1) Engines operating under modified conditions are excluded from extended drain recommendations. Examples include the use of performance computer chips; non-OEM approved exhaust, fuel or air induction systems; and the use of fuels other than those recommended for normal operation by the manufacturer.
- (2) Mechanically sound engines are in good working condition and do not, for example, leak oil or consume excessive amounts, are not worn out, do not overheat, do not leak anti-freeze and have properly working emission control systems. AMSOIL recommends repairing malfunctioning engines prior to the installation of AMSOIL synthetic oils.
- (3) Personal vehicles frequently traveling greater than 10 miles (16 km) at a time and not operating under severe service.
- (4) Turbo/supercharged vehicles, commercial or fleet vehicles, excessive engine idling, first and subsequent use of AMSOIL in vehicles with over 100,000 miles, daily short trip driving less than 10 miles (16 km), frequent towing, plowing, hauling or dusty condition driving.

AMSOIL Ea full-flow oil filters are designed for extended drain intervals. They stop smaller particles, flow more oil and last longer than regular filters. For best performance, use AMSOIL Ea full-flow oil filters.

### 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 upon request at 715-392-7101 or via the Internet at [www.AMSOIL.com](http://www.AMSOIL.com).

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

