



*"The First in Synthetics"®*

**Formulated For Superior  
Automotive Engine Lubrication**

## **100% SYNTHETIC 5W-30 MOTOR OIL**

- API SH-SJ-SL-CF
- Chrysler MS 6395 H
- Ford WSS M2C-153G
  - GM 4718-M
- VW 500.00, 501.01 and 505.00
  - Energy Conserving II
  - ILSAC GF-2, GF-3
- Mercedes-Benz AG 226.1

### **PRODUCT DESCRIPTION**

AMSOIL 100% Synthetic 5W-30 Motor Oil exceeds the lubrication requirements of all modern automobile engines, providing tough lubricating protection in the most demanding operating conditions. It resists high temperature degradation and flows freely in cold conditions for substantial reduction in engine wear. AMSOIL 5W-30 provides excellent engine protection, maximum power, improved fuel efficiency and extended oil drain intervals.

#### **Resists High Temperature Vaporization**

AMSOIL Synthetic 5W-30 Motor Oil resists vaporizing in the high temperatures that vaporize petroleum motor oils. High vaporization loss leaves a thicker, higher viscosity oil than is recommended. The NOACK Volatility Test, which measures the weight loss of an oil due to evaporation, shows that most 5W-30 petroleum motor oils fail to pass the 13 percent ACEA pass/fail limit. In fact some oils lose as much as 25 percent of their weight to volatility. AMSOIL 5W-30 Motor Oil loses only 6.9 percent of its weight. AMSOIL 5W-30 remains a 5W-30. It provides consistent high temperature protection and reduces oil consumption and harmful emissions.

#### **Resists Oxidation and Thermal Breakdown**

AMSOIL Synthetic 5W-30 Motor Oil resists the damaging effects of heat, blowby chemicals and oxidation up to 10 times longer than petroleum motor oils. AMSOIL 5W-30 resists forming varnish deposits and sludge. It doesn't thicken like petroleum oils, but continues to cool and lubricate, providing peak engine performance and extended drain intervals. In addition, the advanced heat transfer capabilities and high lubricity of AMSOIL 5W-30 reduce excessive operating temperatures of engines, transmissions and gear boxes, so they run cooler, cleaner and longer.

#### **Provides High Shear Stability**

AMSOIL 5W-30 surpasses the North American SAE and European ACEA oil specifications for high temperature/high shear (HTHS) viscosity. It doesn't shear back to a lower viscosity oil in the high temperature/high shear conditions of today's smaller, high RPM automobile engines. AMSOIL 5W-30 maintains an extremely protective viscosity of 3.5 cP at 302°F (150°C) in the ASTM D-4683 High Temperature/High Shear Test, far exceeding test limits of 2.9 cP.

#### **Provides Low Temperature Protection**

AMSOIL 5W-30 remains fluid at temperatures as frigid as -60°F (-51°C). It permits easy engine cranking for fast starts and in sub-zero temperatures flows to all engine parts much faster than petroleum motor oils. The exceptional cold temperature properties of AMSOIL 5W-30 provide immediate cold start lubrication, greatly reducing engine wear and prolonging engine life.

#### **Resists Deposit Formation**

Because AMSOIL 5W-30's synthetic formulation resists oxidation so well, it runs naturally cleaner than petroleum motor oils. AMSOIL 5W-30 also contains special detergent/dispersant additives that, when tested after tens of thousands of miles of use in the crankcase, still exhibit outstanding deposit control. This combination of natural detergency and advanced additive package keeps AMSOIL 5W-30 effective for up to 25,000 miles or one year in non-turbocharged gasoline-fueled cars.

#### **Prevents Rust and Corrosion**

AMSOIL Synthetic 5W-30 contains special rust and corrosion inhibitors to protect iron parts, as well as copper, lead and aluminum bearing materials.

## TYPICAL TECHNICAL PROPERTIES

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

Kinematic Viscosity @ 100°C, cSt (ASTM D-445) ...	11.7	Flash Point, °C (°F) (ASTM D-92) .....	230 (446)
Kinematic Viscosity @ 40°C, cSt (ASTM D-445) ...	63.4	Four Ball Wear Test (ASTM D-4172B: 40kgf, 75°C, 1,200 rpm, 1hr) Scar, mm .....	0.35
Viscosity Index (ASTM D-2270) .....	182	Noack Volatility, % weight loss (g/100g) (ASTM D-5800) .....	6.9
CCS Viscosity @ -25°C, cP (ASTM D-2602) .....	2555	High Temperature/High Shear Viscosity cP, 150°C, 1.0 x 10 <sup>6</sup> s. <sup>-1</sup> (ASTM D-4683) ...	Minimum 3.5
Borderline Pumping Temperature °C (F°) .....	<-40 (-40) (ASTM D-3829)	Total Base Number .....	>11.0
Pour Point, °C (°F) (ASTM D-97) .....	-51 (-60)		

### APPLICATION

AMSOIL 100% 5W-30 Motor Oil is designed to provide maximum benefits in gasoline-fueled engines and is recommended in applications specifying the following:

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### MIXING AMSOIL

AMSOIL 100% Synthetic 5W-30 Motor Oil is compatible with conventional petroleum oils; however, mixing AMSOIL 5W-30 with a conventional oil will shorten the drain period of AMSOIL 5W-30. Engine oil additives or after-market products are not recommended for use with AMSOIL 5W-30.

### SERVICE LIFE

In personal cars and light-duty trucks with non-turbocharged gasoline engines: drain oil at 25,000 miles or one-year intervals, whichever comes first.

In turbocharged gasoline engines, motorcycles, ATVs, marine craft and occasionally used gasoline engines: drain oil at intervals up to three times as long as the intervals recommended by the engine manufacturer or one year, whichever comes first.

In high performance and racing engines: drain oil according to the findings of used oil analysis.

In light-duty and non-turbocharged diesel engines: drain oil at intervals up to twice as long as those recommended by the engine manufacturer or one year, whichever comes first.

In fleet and industrial engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer if the findings of a used oil analysis program support the extended drain intervals.

If the vehicle is equipped with an AMSOIL Oil Filter, the filter should be changed at 12,500-mile or six-month intervals (whichever comes first) in gasoline engines and 7,000-mile or six-month intervals (whichever comes first) in diesel engines. Non-AMSOIL oil filters should be changed at the engine manufacturer's recommended filter change intervals.

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

