



*The First in Synthetics*®

## **SAE 5W-40 100% Synthetic Premium API CJ-4 Diesel Oil**

**For Ultra Low Emission Diesel Engines**



### ***PRODUCT DESCRIPTION***

AMSOIL Synthetic 5W-40 (DEO) is the premium choice for API CJ-4 emission quality diesel oil required by model year 2007 and newer diesel engines. It delivers extraordinary lubrication in diesel engines found in commercial, fleet and personal vehicles. Built with the latest additive and synthetic base oil technology, AMSOIL Synthetic 5W-40 Diesel Oil exceeds the higher performance demands of modern engines. It withstands the stress of heat, soot and acids to help prevent deposits, corrosion and wear. AMSOIL Synthetic 5W-40, with its broad viscosity range, is ideal for winter and summer use. It resists breakdown and can extend drain intervals when monitored by oil analysis.

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.

### ***Exceeds Emission System Requirements***

AMSOIL Synthetic 5W-40 Diesel Oil is a low sulfated ash formulation that exceeds the modern requirements for low emission quality diesel oil. It is compatible with all exhaust treatment devices and is designed to extend the service life of particulate filters.

### ***Controls Soot Thickening and Wear***

The advanced synthetic base oils in AMSOIL 5W-40 Diesel Oil are naturally resistant to soot contamination. That, along with a heavy fortification of detergent/dispersant additives, keeps soot particles suspended independently, helping prevent the formation of larger wear causing particles. Viscosity increase is minimized and soot related wear is controlled.

### ***Maximizes Fuel Economy and Reduces Oil Consumption***

AMSOIL Synthetic 5W-40 Premium Diesel Oil has a very low high temperature volatility rate (burn off). Because less oil vapor passes into the combustion chamber, oil consumption and emissions are reduced. Additionally, lower volatility helps AMSOIL Synthetic 5W-40 retain its viscosity after high temperature service for continued dependable protection and excellent fuel economy.

### ***Excels in Extreme Temperatures***

AMSOIL Synthetic 5W-40 Premium Diesel Oil resists thermal (heat) breakdown, oxidation and sludge formation better than conventional petroleum oils. And unlike conventional oils, AMSOIL 5W-40 contains no wax. It stays fluid in cold temperatures for improved oil flow, reduced bearing wear and easier starting.



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL Synthetic 5W-40 Premium Diesel Oil (DEO)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	15.3
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	92.6
Viscosity Index (ASTM D-2270)	176
CCS Viscosity @ -30°C, cP (ASTM D-2602)	5852
Flash Point °C (°F) (ASTM D-92)	226 (439)
Fire Point °C (°F) (ASTM D-92)	242 (468)
Pour Point °C (°F) (ASTM D-97)	-44 (-47)
Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	8.9
Four-Ball Wear Test (ASTM D-4172B @ 40 kg, 75°C, 1200 rpm, 1 hr), Scar, mm	0.44
Total Base Number	8.00
High-Temperature/High-Shear Viscosity, cP (ASTM D-4683)	4.2
Sulfated Ash Content, wt. %	0.97

## APPLICATIONS

AMSOIL Synthetic 5W-40 Premium Diesel Oil replaces 5W-40, 10W-40 and 15W-40 viscosity oils. It is “backwards compatible” and recommended for newer and older diesel engines, gasoline engines and other applications requiring the following worldwide specifications:

- SAE 5W-40, 10W-40, & 15W-40
- API CJ-4, CI-4+, CH-4, CF
- API SM, SL, SJ...
- ACEA E7
- Mack EO-O Premium Plus
- DDC Power Guard 93K218
- Caterpillar ECF-3, ECF-1
- Cummins CES 20081
- Volvo VDS-4
- MB 228.3
- MTU Type II

AMSOIL Synthetic 5W-40 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-40 Premium Diesel Oil is recommended for use according to the longest service interval established by the engine, vehicle or equipment manufacturer. Drain intervals may be extended when monitored by oil analysis.

AMSOIL Ea™ and Donaldson Endurance™ full flow oil filters are designed for extended drain intervals. They stop smaller particles, have less restriction and last longer than regular filters. For best performance use AMSOIL Ea™ or Donaldson Endurance™ 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). **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

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

