



## Premium 15W-40 Synthetic Diesel Oil

### Superior Shear Stability and Extended Drain Intervals in Ultra-Low Emission Diesel Engines

AMSOIL 15W-40 Synthetic Diesel Oil is the premium choice for API CJ-4 emission-quality diesel oil required by model-year 2007 and newer diesel engines, as well as older diesel applications (including those equipped with turbochargers). It delivers extraordinary lubrication in diesel engines found in commercial, fleet and personal vehicles. Formulated with the latest additive and synthetic base oil technology, AMSOIL Premium 15W-40 Synthetic 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, 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*<sup>®</sup>, to do the best job protecting your engine.



#### Meets Emission System Requirements

AMSOIL 15W-40 Synthetic Diesel Oil is a low-sulfated ash formulation that meets the requirements for low-emission quality diesel oil and protects under the most severe conditions found in modern diesel engines. It is compatible with all exhaust treatment devices and is designed for engines equipped with diesel particulate filters (DPF).

#### Extended Drain Performance

AMSOIL Premium 15W-40 Synthetic Diesel Oil can extend drain intervals far beyond those recommended for conventional petroleum oils. Its unique synthetic formulation and long-drain additive system (10.4 TBN) deliver superior engine protection, cleanliness and performance over extended drain intervals. AMSOIL 15W-40 Synthetic Diesel Oil provides maximum protection for up to 3X the OEM-recommended drain interval, even further with oil analysis.

#### Controls Soot-Thickening and Wear

The advanced synthetic base oils in AMSOIL 15W-40 Synthetic Diesel Oil are naturally resistant to soot contamination and oxidative thickening. 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.

#### Superior Shear Stability, Reduced Oil Consumption

AMSOIL 15W-40 Synthetic Diesel Oil has lower volatility (burn-off) than conventional petroleum oils, resulting in less oil vapor passing into the combustion chamber, lowering oil consumption and emissions. Lower volatility helps AMSOIL Premium Synthetic Diesel Oil retain its viscosity after high-temperature service for continued dependable protection.



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL Premium 15W-40 Synthetic Diesel Oil (DME)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	14.6
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	103.2
Viscosity Index (ASTM D2270)	146
CCS Viscosity @ -20°C, cP (ASTM D5293)	5184
Flash Point °C (°F) (ASTM D92)	238 (460)
Fire Point °C (°F) (ASTM D92)	254 (489)
Pour Point °C (°F) (ASTM D97)	-40 (-40)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	6.8
Four-Ball Wear Test, Scar, mm (ASTM D4172)	0.51
Total Base Number	10.4
High-Temperature/High-Shear Viscosity, cP (ASTM D5481)	4.2
Sulfated Ash Content, wt. %	1.0

### Ideal for Fleets

AMSOIL Premium 15W-40 Diesel Oil reduces operating costs through extended drain intervals. It is engineered for a wide range of applications, allowing fleet operators to consolidate engine oil inventories in mixed fleets. In addition, it reduces downtime through extended drain intervals and improved equipment protection.

#### AMSOIL 15W-40 Diesel Oil costs less per mile than conventional oil.

Fleet Savings vs. Conventional 15W-40	Total Lubricant Used	Cost Per Gallon	Total Lubricant Cost x1 Truck	Total Lubricant Cost x50 Trucks
Conventional 15W-40	8 gal X12=96 gal	\$17.09	\$1,641	\$82,032
AMSOIL Synthetic 15W-40	8 gal X4=32gal	\$38.70	\$1,238	\$61,920
<b>TOTAL SAVINGS WITH AMSOIL</b>			<b>\$403</b>	<b>\$20,112</b>

Based on 120,000 miles per year with an OEM-recommended drain interval of 10,000 miles. Does not include labor, filter or used oil disposal costs, making AMSOIL even more cost-effective. Pricing samples are average suggested retail, October/November 2014.

### APPLICATIONS

AMSOIL Premium 15W-40 Synthetic Diesel Oil is recommended for diesel engines and, where appropriate, gasoline engines requiring any of the following specifications:

- SAE 15W-40
- API CJ-4, CI-4+, CF, SM, SN
- ACEA E7, E9
- Mack EO-O
- DDC 93K218
- Caterpillar ECF-3, ECF-2, ECF-1a
- Cummins CES 20081
- Volvo VDS-4, VDS-3
- MB 228.31
- MS-10902
- MTU Type I, II & 2.1
- MAN 3275, 3575
- JASO DH-2
- Global DHD-1
- Renault RLD-3

### COMPATIBILITY

AMSOIL 15W-40 Synthetic Diesel Oil 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 Premium 15W-40 Synthetic Diesel Oil is recommended for extended drain intervals in engines that are unmodified and in good operating condition.

#### Diesel Engine Service

- Three times (3X) OEM\* recommendation, not to exceed 50,000 miles/600 hours or one year, whichever comes first. Drain intervals may be extended further with oil analysis.
- 2007-2009 Caterpillar C13 and C15 on-highway engines must follow OEM-recommended drain interval.
- 2007-Present Dodge, Ford and GM LMM light-duty diesel pickups must follow OEM-recommended drain interval. Drain intervals may be extended with oil analysis.

#### Gasoline Engine Service

- Two times (2X) OEM\* recommendation, not to exceed 15,000 miles or one year, whichever comes first.

\*Operating conditions and drain intervals for severe and normal service are defined by the OEM. Refer to your owner's manual.

**Note:** Extended drain intervals are not recommended when using biofuels containing >10% ethanol or 10% biodiesel (B10). Follow OEM drain intervals or extend drain intervals with oil analysis.

### 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.** Don't pollute. Return used oil to collection centers.

### 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).



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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.