

# Heavy-Duty Synthetic Diesel Oil

# Formulated for Exceptional Diesel Engine Protection

AMSOIL Heavy-Duty Synthetic Diesel Oil is formulated for hard-working equipment. It is engineered to provide 4X better wear protection,<sup>1</sup> giving you the edge to keep trucks and equipment operating at peak performance. AMSOIL Heavy-Duty Synthetic Diesel Oil offers outstanding value and provides excellent protection for customers seeking an upgrade over conventional, synthetic-blend or competing synthetic diesel oils.



### **Heavy-Duty Engine Protection**

Wear on rings and cylinder liners leads to increased oil consumption and loss of compression, resulting in reduced horsepower and fuel economy. Third-party testing shows AMSOIL Heavy-Duty Synthetic Diesel Oil delivers 4X more wear protection¹ to help maximize equipment life and reduce maintenance costs and downtime.

#### **Viscosity Control**

Formulated with advanced synthetic base oils and detergent/dispersant additives, AMSOIL Heavy-Duty Synthetic Diesel Oil minimizes viscosity change while keeping soot particles suspended independently, helping prevent the formation of larger, wear-causing particles. Lower volatility also helps AMSOIL Heavy-Duty Synthetic Diesel Oil retain its viscosity after high-temperature service for added engine protection and increased fuel economy.

## **Excels in Extreme Temperatures**

AMSOIL Heavy-Duty Synthetic Diesel Oil is formulated to deliver improved heat and oxidation resistance compared to conventional diesel oils. It provides clean engine operation and helps maintain power and fuel efficiency for superior engine performance. AMSOIL Heavy-Duty Synthetic Diesel Oil also flows dependably in cold temperatures for easier startup and improved engine protection.

## **Minimizes Oil Consumption**

AMSOIL Heavy-Duty Synthetic Diesel Oil has a low rate of volatility (burn-off), reducing oil consumption during operation and passing less oil vapor into the combustion chamber. It provides up to 66 percent less oil consumption than required by the API CK-4 standard in the Caterpillar-1N oil consumption test.

0.5

0.4

0.3

0.2

0.17

AMSOIL Heavy-Duty Synthetic Diesel Oil provides up to 66 percent less oil consumption than required by the API CK-4 standard in the Caterpillar-1N oil consumption test.

AMSOIL

CK -4 Limit

<sup>1</sup>Based on third-party testing in the Detroit Diesel DD13 Scuffing Test for specification DFS 93K222 using 10W-30 as worst-case representation.

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Detroit Diesel DD13 Scuffing Test for Specification DFS 93K222

**Oil Consumption** 

0.6

## **TYPICAL TECHNICAL PROPERTIES**

### AMSOIL Heavy-Duty Synthetic Diesel Oil

	10VV-30 (ADN)	5W-40 (ADO)	15W-40 (ADP)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	12.0	15.2	15.5
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	79.3	90.2	112.7
Viscosity Index (ASTM D2270)	147	178	144
CCS Viscosity @ °C, cP (ASTM D5293)	5591 (-25)	5581 (-30)	4932 (-20)
Pour Point, °C (°F) (ASTM D97)	-38 (-36)	-42 (-44)	-38 (-36)
Four-Ball Wear Test (ASTM D4172), Scar, mm	0.46	0.47	0.46
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	4.5	9.2	3.6
Total Base Number (ASTM D2896)	10.2	10.2	10.2
High-Temperature/High-Shear Viscosity, cP (ASTM D5481)	3.6	4.2	4.7
Sulfated Ash Content, wt. %	1.0	1.0	1.0

10M 20 (ADN)

#### **APPLICATIONS**

Use in diesel engines and, where appropriate, gasoline engines requiring any of the following specifications:

	10W-30 (ADN)	5W-40 (ADO)	15W-40 (ADP)
API CK-4, CJ-4, CI-4+, CF	Χ	Χ	Χ
API CF-2		Χ	X
Volvo VDS4.5, VDS4, VDS3	Χ	Χ	X
Mack EOS-4.5, EO-O	Χ	Χ	X
Renault RLD-4, RLD-3	X	Χ	X
Cummins CES20086, CES20081	Χ	Χ	X
Caterpillar ECF-2, ECF-3, ECF-1-	a X	Χ	X
DDC 93K218, 93K215, 93K214	Χ	Χ	X
DFS 93K222	X	Χ	X
ACEA E9, E7	Χ	Χ	X
MB 228.31	Χ	Χ	X
MAN 3575	X	Χ	X
MTU Type 2.1, II, I	Χ	Χ	X
JASO DH-2	Χ	Χ	X
Deutz DQC III-10LA	Χ	Χ	Χ
Chrysler MS 10902	Χ	Χ	Χ
Ford WSS-M2C171-F1	Χ	Χ	X
Allison TES439		Χ	X

All viscosities capable of gasoline service API SN; consult owner's manual for proper viscosity recommendation.









#### **COMPATIBILITY**

AMSOIL Heavy-Duty Synthetic Diesel Oil is compatible with other conventional and synthetic oils. Mixing AMSOIL diesel oil with other oils, however, will reduce its performance benefits.

Aftermarket oil additives are **not recommended** for use with AMSOIL synthetic diesel oils.

EW 40 (ADO)

15W\_40 (ADD)

#### **SERVICE LIFE**

AMSOIL Heavy-Duty Synthetic Diesel Oil is recommended for the drain intervals stated by the original equipment manufacturer (OEM). Refer to the owner's manual for the specific oil change interval. Intervals may be extended beyond the OEM-recommended interval with oil analysis. Provides lasting protection for multiple events during competition. Use oil analysis to determine appropriate drain interval for competition use or when extending drain intervals beyond the OEM recommendation.

### **TECHNICAL SERVICES**

For immediate answers to your technical questions call (715) 399-TECH (8324) between 8 a.m. and 5 p.m. Central time or email tech@AMSOIL.com.

#### **PRODUCT WARRANTY**

Using AMSOIL synthetic lubricants or practicing extended drain intervals does not void your new vehicle or equipment manufacturer's warranty. All AMSOIL lubricants and filters are covered by the AMSOIL Limited Warranty. For complete information visit 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 online at AMSOIL.com or upon request at (715) 392-7101. **Keep Out of Reach of Children**. Recycle used oil and bottle.















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



Jeff Fisher 866-292-4700 www.SyntheticOils.us