



The First in Synthetics®

Custom-Blended For Outstanding Performance In Today's Engines

PRODUCT DESCRIPTION

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil combines the superior lubricity and performance capabilities of a premium synthetic lubricant with special rust and corrosion inhibitors. AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil is recommended for engines used in marine applications, as well as diesel engines used in trucks, fleets, mining, earth moving, construction and farm equipment. Other applications include taxi and local delivery fleets with gasoline or diesel engines. With its extended drain intervals, AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil reduces maintenance costs, downtime and the cost of waste oil disposal.

Provides High Shear Stability

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil surpasses the European ACEA and North American SAE oil specifications for high temperature/high shear (HTHS) viscosity. It is significantly more shear stable than conventional motor oils, retaining its viscosity at temperatures and loads that break down conventional oils. AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil maintains an extremely protective viscosity of greater than 4.1 cP at 302°F (150°C) in the ASTM D-4683 High Temperature/High Shear Test, exceeding the test limits.

Prevents Rust and Corrosion

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil contains special rust and corrosion-inhibiting additives to prevent the rusting or corrosion of iron, copper, lead and aluminum materials.

Improves Fuel Economy

The premium quality synthetic base stocks in AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil provide a tough lubricating film on all engine parts, reducing friction and fuel consumption. Reduced fuel consumption reduces exhaust emissions of carbon dioxide, water and particulates.

SYNTHETIC HEAVY-DUTY DIESEL AND MARINE MOTOR OIL SAE 15W-40

- API Engine Service CH-4, CG-4, CF-2, CF, SH, SJ
- MIL-PRF-2104G, • MIL-L-21260D* • Allison C-3, C-4
 - Mack EO-L, EO-L+, EO-M, EO-M+ • M.A.N. 271
 - Mercedes-Benz AG 227.1, 228.1, 228.3
 - Scania Long Drain • Volvo VDS, VDS-2
- VW 505.00 • Cummins CES 20071, 20072, 20076
 - MTU • EMA LRG1

**Rust Protection and Acid Neutralization Test*

Resists Oxidation - Reduces Engine Wear

Conventional oils oxidize at high temperatures, causing sludge and deposit build-up that decrease fuel efficiency and contribute to corrosion and increased engine wear. AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil, with a flash point of 234°C (453°F), resists oxidation and thermal breakdown far better than conventional oils. It continues to provide maximum protection at temperatures that oxidize conventional oils. Also, the advanced heat transfer capabilities and high lubricity of AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil helps engines run cooler and reduces wear.

Extended Drain Intervals

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil is formulated for extended drain intervals. Its unique synthetic formulation, improved detergent/dispersant capabilities, and long drain additive package ensure maximum engine protection, cleanliness and performance over extended drain periods. Its advanced 12 TBN formulation keeps engines in superb condition even when the oil is used for extended drain intervals.

Provides Low Temperature Protection

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil remains fluid at temperatures as low as -47°F (-44°C). It circulates rapidly to provide vital lubrication and prevent engine wear caused by lack of oil flow. AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil allows quicker, easier cold temperature starting with less engine wear.

Reduces Oil Consumption and Emissions

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil far exceeds the NOACK Volatility Test. Many conventional lubricants cannot pass this requirement. Low volatility means less oil vapor passing into the combustion chamber. A reduction of oil vapor means lower oil consumption and lower exhaust emissions. The high detergent alkalinity of AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil also helps reduce oil consumption.

TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic SAE 15W-40 Heavy-Duty Diesel and Marine Motor Oil (AME)

Kinematic Viscosity @ 100°C, cST15.5 (ASTM D-445)	Flash Point °C (°F) (ASTM D-92)234 (453)
Kinematic Viscosity @ 40°C, cST100.2 (ASTM D-445)	Four Ball Wear Test (ASTM D-4172B: 40 kg, 75°C, 1200 rpm 1hr) Scar, mm0.35
Viscosity Index (ASTM D-2270).....164	Noack Volatility, % weight loss (g/100g)6.7 (ASTM D-5800)
CCS Viscosity @ -20°C, cP (ASTM D-2602)3600	High Temperature/High Shear Viscosity>4.1 cP, 150°C, 1.0 x 10 ⁶ s. ⁻¹ (ASTM D-4683)
Pour Point °C (°F) (ASTM D-97)-44 (-47)	Total Base Number>12

APPLICATION

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil is recommended for applications specifying the following:

- API Engine Service CH-4, CG-4, CF-2, CF, SH, SJ
- MIL-L-21260D*, MIL-PRF-2104G
- Allison C-3, C-4
- Mack EO-L, EO-L+, EO-M, EO-M+
- M.A.N. 271
- Mercedes-Benz AG 227.1, 228.1, 228.3
- Scania Long Drain
- Volvo VDS, VDS-2
- VW 505.00
- Cummins CES 20071, 20072, 20076
- MTU
- EMA LRG-1

*Rust Protection and Acid Neutralization Tests

MIXING AMSOIL

AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil is compatible with conventional petroleum oils and other synthetic oils; however, mixing AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil with a conventional oil will shorten the extended drain period of AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil. Engine oil additives or after-market products are not recommended for use with AMSOIL Synthetic Heavy-Duty Diesel and Marine Motor Oil.

SERVICE LIFE

Personal passenger vehicles with gasoline engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer or at one-year intervals, whichever comes first.

Turbocharged gasoline engines: drain oil at intervals up to twice as long as those recommended by the engine manufacturer or at six-month intervals, whichever comes first.

High performance and racing engines: drain oil at engine manufacturer's recommended drain intervals.

Light-duty and nonturbocharged diesel engines: drain oil at intervals up to twice as long as engine manufacturer's recommended drain intervals when used oil analysis supports these longer drain intervals or at six-month intervals.

Heavy-duty and turbocharged diesel engines: drain oil at intervals up to twice as long as engine manufacturer's recommended drain intervals when used oil analysis supports these longer drain intervals or at six-month intervals.

Motorcycles, ATVs, etc.: use engine manufacturer's recommended drain interval.

Marine craft and occasionally used gasoline engines: drain oil at intervals up to three times as long as those recommended by the engine manufacturer or at one-year intervals, whichever comes first.

Gasoline fleet vehicles and industrial engines: drain oil at intervals up to three times the engine manufacturer's recommended drain intervals or at six-month intervals, whichever comes first.

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

