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DATA BULLETIN

SAE 60 Synthetic V-Twin Motorcycle Oil

High-Performance Lubricant for Motorcycle Engines and Transmissions



- **Outstanding** wet-clutch performance
- **Exceptional** wear protection
- **Promotes** cooler operation

AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil is a premium oil designed for those who demand the absolute best lubrication for their motorcycles. AMSOIL Synthetic Motorcycle Oil is the result of extensive research, and it is specially formulated to excel in all areas unique to motorcycles, including high engine rpm, wet-clutch lubrication, extreme-pressure regions of gears and rust common to short drives and storage. SAE 60 Synthetic V-Twin Motorcycle Oil features superior heat resistance and wear protection. It is shear-stable and helps maintain proper oil pressure in elevated temperatures. It stops viscosity breakdown (loss), protects gears and chains, and meets SAE 140, API GL-1 gear oil requirements. It is multi-functional and fulfills the requirements of both domestic and foreign motorcycles. SAE 60 Synthetic V-Twin Motorcycle Oil outperforms other conventional and synthetic motorcycle oils.

AMSOIL, the leader in 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 motorcycle.*

Reduces Friction, Heat and Wear

In high-heat conditions, engine protection is not sacrificed with AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil. It has exceptional high-temperature film strength and contains a heavy treatment of anti-wear additives to reduce wear regardless of operating conditions. Synthetic V-Twin Motorcycle Oil is thermally (heat) stable and contains maximum levels of oxidation-inhibitor additives. It is extremely resistant to breakdown and engineered to prevent damaging sludge and carbon deposits for superior engine cleanliness.

Extreme-Pressure Protection for Gears

With AMSOIL Synthetic V-Twin Motorcycle Oil, there is no need for a separate transmission lubricant. It is shear-stable and will not thin out from mechanical activity. SAE 60 Synthetic V-Twin Motorcycle Oil performs like a gear lube without the negative effects of extreme-pressure additives.

Superior Rust Protection

Motorcycles are prone to rust from storage, humidity and short drives. Rust can cause major damage such as roller-bearing failure, wear, compression loss and blow-by. Good rust protection, however, comes by design and is not natural to engine oils. Unlike many motorcycle oils, AMSOIL Synthetic V-Twin Motorcycle Oil contains special anti-rust agents.

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TYPICAL TECHNICAL PROPERTIES

AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil (MCS)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	24.9
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	203.7
Viscosity Index (ASTM D2270)	153
Pour Point °C (°F) (ASTM D97)	-38 (-36)
Flash Point °C (°F) (ASTM D92)	226 (439)
High-Temperature/High-Shear Viscosity (ASTM D5481 @ 150°C, 1.0 X 10^6 s^{-1}), cP	7.6
Four-Ball Wear Test (ASTM D4172 @ 40 kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.37
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	3.7

Excellent Wet-Clutch Performance

AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil contains no friction modifiers and promotes smooth shifting and positive clutch engagement. It controls heat and helps prevent slippage and glazing, while its high TBN helps improve clutch life by resisting acids that can degrade clutch material.

APPLICATIONS

Use in big-bore motorcycles that require SAE 60 motorcycle oil and any of the specifications listed below, including early model Harley-Davidsons* equipped with Knucklehead, Panhead* or Shovelhead engines. Use where SAE 90, API GL-1 gear oil is required.

JASO MA/MA-2 • API SL, SG/CF/CG-4 • ISO-L-EMA2

COMPATIBILITY

AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil is compatible with other synthetic and conventional motor oils. Mixing AMSOIL oils with other oils, however, will shorten the oil's life expectancy and reduce its performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are **not recommended** for use with AMSOIL Synthetic Motorcycle Oil.

SERVICE LIFE

Recommended for use up to twice the motorcycle's manufacturer-recommended change interval (miles/hours) or one year, whichever comes first, in engines and transmissions. For Big Twin* Harley-Davidson transmissions only, follow the Harley-Davidson recommended drain interval for synthetic oil of up to 20,000 miles or one year, whichever comes first. When using an engine filter other than an AMSOIL Ea® Motorcycle Oil Filter, change the filter at standard intervals.

For off-road use, change AMSOIL Synthetic Motorcycle Oil at the motorcycle's manufacturer-recommended intervals.

Racing or modified engines are excluded from extended drain interval recommendations. Oil changes are at the owner's discretion.

WARRANTY SECURE™

AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty. For details, visit www.amsoil.com/warrantysecure.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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