



15W-60 and 20W-40 Synthetic V-Twin Motorcycle Oil

Developed by AMSOIL for use in Victory* and Indian* motorcycles.

AMSOIL Synthetic V-Twin Motorcycle Oil is a premium oil designed for those who demand the absolute best lubrication for their motorcycles. It is the result of extensive research and is specially formulated to excel in all areas unique to motorcycles, including the high temperatures of air-cooled engines, wet-clutch lubrication, extreme-pressure regions of gears and chains, and rust protection.

AMSOIL 15W-60 and 20W-40 Synthetic V-Twin Motorcycle Oil provides Indian and Victory riders the confidence and security that comes with receiving maximum protection and performance for their bikes. It presents a premium alternative to higher-priced manufacturer-branded oils.

Reduces Friction, Heat and Wear

AMSOIL Synthetic V-Twin Motorcycle Oil is engineered to protect critical components in high-heat conditions. It exceeds the standard for high-temperature film strength to deliver excellent wear protection (see graph) and contains a heavy treatment of anti-wear additives to reduce wear regardless of operating conditions. AMSOIL Synthetic V-Twin Motorcycle Oil is thermally (heat) stable and contains maximum levels of oxidation-inhibitor additives. It is extremely resistant to breakdown and is engineered to prevent damaging sludge and carbon deposits for superior engine cleanliness.

Provides Anti-Wear Protection for Gears and Chains

AMSOIL Synthetic V-Twin Motorcycle Oil is shear stable and resists thinning from mechanical activity. It performs like a gear lube without the negative effects of extreme-pressure additives, such as poor wet-clutch performance.

Delivers Superior Rust Protection

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

Catalytic-Converter Compatible

AMSOIL Synthetic V-Twin Motorcycle Oil meets the requirements for emission-system protection and is designed for use in motorcycles with catalytic converters.

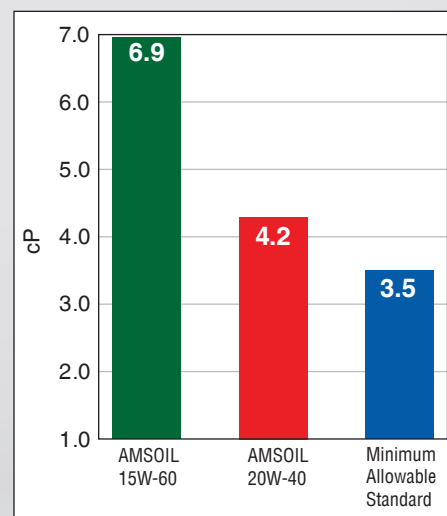
Provides Excellent Wet-Clutch Performance

AMSOIL Synthetic V-Twin Motorcycle Oil delivers the confidence of quiet, smooth shifting and positive clutch engagement. It controls heat and helps prevent slippage and glazing.



MAXIMUM WEAR PROTECTION

*Higher values reflect better protection.
May 2017 Test Results*



The High-Temperature/High-Shear Viscosity Test (ASTM D5481) measures a lubricant's viscosity under severe high-temperature and shear conditions, similar to severe operating conditions experienced by motorcycles. Higher values indicate improved wear protection.

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TYPICAL TECHNICAL PROPERTIES

AMSOIL 15W-60 Synthetic V-Twin Motorcycle Oil (MSV)

AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil (MVI)

	15W-60 (MSV)	20W-40 (MVI)
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	23.1	14.0
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	164	105
Viscosity Index (ASTM D2270)	169	135
Flash Point, °C (°F) (ASTM D92)	238 (460)	232 (450)
Fire Point, °C (°F) (ASTM D92)	254 (489)	258 (496)
Pour Point, °C (°F) (ASTM D97)	-38 (-36)	-41 (-42)
High-Temperature/High-Shear Viscosity (ASTM D5481 @ 150°C, 1.0 X 10 ⁶ s ⁻¹), cP	6.9	4.2
Four-Ball Wear Test (ASTM D4172 @ 40kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.39	0.41
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	5.2	2.7
Foam (ASTM D892, Sequence I, II & III)	0/30/0	0/10/0
Total Base Number	11.6	11.6

APPLICATIONS

Use **AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil** in motorcycles that require 20W-40 motorcycle oil and any of the specifications listed below, including those made by Victory* and Indian*. Use **AMSOIL 15W-60 Synthetic V-Twin Motorcycle Oil** in motorcycles that require 15W-60 motorcycle oil and any of the specifications listed below, including those made by Victory and Indian.

- JASO MA
- API SM
- ILSAC GF-4

COMPATIBILITY

AMSOIL Synthetic V-Twin Motorcycle Oil is compatible with other synthetic and conventional motor oils. Adding other oils, however, will shorten the life expectancy of AMSOIL motor oils and reduce their 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 V-Twin Motorcycle Oil.

SERVICE LIFE

For on-road use in engines and transmissions: When paired with an AMSOIL Ea® Motorcycle Oil Filter, AMSOIL 15W-60 and 20W-40 Synthetic V-Twin Motorcycle Oil are capable of providing premium protection for up to 2X the motorcycle manufacturer-recommended change interval or one year, whichever comes first. Change other brand oil filters at standard intervals.

For off-road use in engines and transmissions: Change AMSOIL 15W-60 and 20W-40 Synthetic V-Twin Motorcycle Oil at the standard motorcycle manufacturer-recommended change interval.

For racing or in engines modified from the original factory design: No change interval recommendation is made; oil changes are at the owner's discretion.

WARRANTY SECURE®

AMSOIL Synthetic V-Twin Motorcycle Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL 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 application 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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20W-50 Synthetic V-Twin Motorcycle Oil

High-Performance Lubricant for Engines, Transmissions and Primary Chaincases

AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil is a premium oil designed for those who demand the absolute best lubrication for their motorcycles. It is the result of extensive research and is specially formulated to excel in all areas unique to motorcycles, including the high temperatures of air-cooled engines such as Harley-Davidson® V-twins, wet-clutch lubrication, extreme-pressure regions of gears and chains and rust common to short trips and storage. AMSOIL Synthetic Motorcycle Oil is multi-functional and fulfills the requirements of both domestic and foreign motorcycles.

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 Wear and Deposits

AMSOIL Synthetic V-Twin Motorcycle Oil contains a heavy treatment of anti-wear additives to reduce wear regardless of the operating conditions. It is thermally (heat) stable and contains maximum levels of oxidation inhibitor additives. After 250 hours (13,647 miles) on an engine dyno, AMSOIL Synthetic V-Twin Motorcycle Oil eliminated piston scuffing and wear for long engine life and maximum power (see image).

Withstands Extreme Heat

Big, powerful V-twin engines run extremely hot, especially in summer during stop-and-go rally or parade traffic. High heat breaks down oil formulated for standard service, inviting wear and performance-robbing deposits. AMSOIL Synthetic V-Twin Motorcycle Oil is formulated with naturally heat-resistant synthetic base oils that resist oxidation in extreme heat. Its unique additive system helps keep engines clean and running efficiently in the toughest riding conditions.

Extreme-Pressure Protection for Gears and Chains

AMSOIL Synthetic V-Twin Motorcycle Oil delivers exceptional protection in transmissions and primary chaincases. It is absolutely shear stable and will not thin out from mechanical activity. AMSOIL 20W-50 V-Twin Motorcycle Oil performs like a gear lube without the negative effects of extreme-pressure additives. In the FZG gear test, AMSOIL achieved a perfect score with a "zero" wear rating.

Delivers 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 motor oils. Unlike many motorcycle oils, AMSOIL Synthetic Motorcycle Oil contains special anti-rust agents. It passes the ASTM D1748 humidity cabinet rust test, demonstrating superior rust protection to help your engine achieve maximum performance and long life.



- **Resists** extreme heat
- **Retains** viscosity for excellent wear protection
- **Convenience** of one lubricant for all three sumps

Helps Prevent Wear



After 250 hours (13,647 miles) of dyno testing, AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil protected against piston scuffing and wear for long engine life.

TYPICAL TECHNICAL PROPERTIES

AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil (MCV)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	18.5
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	132.8
Viscosity Index (ASTM D2270)	156
Pour Point °C (°F) (ASTM D97)	-41 (-42)
Flash Point °C (°F) (ASTM D92)	228 (442)
High-Temperature/High-Shear Viscosity (ASTM D5481 @ 150°C, 1.0 X 10 ⁶ s ⁻¹), cP	5.6
Four-Ball Wear Test (ASTM D4172 @ 40 kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.4
FZG (ASTM D5182), Load Stage Pass (Wear in mm)	12+ (0 mm)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	4.2
Foam (ASTM D892, Sequence I, II & III)	0/0, 20/0, 0/0
Shear Stability Kurt Orbahn (ASTM D6278), % viscosity change 120 cycles	0.25
Rust Test - Humidity Cabinet (ASTM D1748)	No Rust, Pass
Total Base Number	11.6

Provides Excellent Wet-Clutch Performance

AMSOIL 20W-50 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 the acids that can degrade clutch material.

APPLICATIONS

Use in motorcycles that require 15W-50 or 20W-50 motorcycle oil and any of the specifications listed below, including those made by Harley-Davidson*, Buell*, Ducati*, Aprilia*, BMW* and Triumph*.

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

Do not use where an API GL-4 or GL-5 gear oil is required.

COMPATIBILITY

AMSOIL 20W-50 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 Oils.

SERVICE LIFE

Recommended for use up to twice the motorcycle manufacturer change interval (miles/hours) or one year, whichever comes first, in engines, transmissions and primary chaincases. 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 AMSOIL Ea®, change the filter at standard intervals.

For off-road use, change AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil at motorcycle 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 20W-50 Synthetic V-Twin Motorcycle Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL 20W-50 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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Chain Lube

Outstanding Protection for On- and Off-Road Motorcycle Chains

AMSOIL Chain Lube (ACLSC) is a dedicated aerosol chain lubricant that provides outstanding wear and corrosion protection for all types of chains and sprockets. It penetrates deep into the pins and bushings of chains and leaves a protective coating that will not fling off or attract dirt, dust, sand or grit.

Performance Features

- Outstanding protection against wear and corrosion
- Helps extend chain life
- Does not attract dirt
- Does not fling off
- Easy application
- Fast-drying
- Sprays from any position

APPLICATIONS

AMSOIL Chain Lube is suitable for all types of chains, including O, X and Z roller chains found in street, off-road and racing motorcycles. It is also excellent for bicycle, agricultural and industrial applications.

Directions

Shake well. Clean chain prior to application. Apply a steady stream along the full length of the chain. Allow to dry for 15 minutes.

AMSOIL PRODUCT AVAILABILITY

AMSOIL Chain Lube is available in 11-oz. spray cans.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.



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The First in Synthetics



DATA BULLETIN

Superior Filtration for Motorcycles and Powersports Equipment

Motorcycle and powersports enthusiasts want their equipment to run at peak performance and deliver years of satisfaction. Many have invested thousands of dollars and untold hours into acquiring and taking care of their machines. Dirt and other particles, however, can infiltrate the engine and cause wear. Over time, the engine can become less efficient, lose power and fail to deliver the "like-new" feeling enthusiasts desire when riding. AMSOIL Ea® Motorcycle Oil Filters (EaOM) incorporate the same synthetic media found in AMSOIL Ea Oil Filters (EaO/Ea15K) for auto/light-truck filters. Their excellent filtering efficiency maximizes wear protection, helping equipment run at peak efficiency and last longer.

Maximum Protection Against Wear

AMSOIL Ea Motorcycle Oil Filters (EaOM) are designed to provide maximum protection against wear by filtering out dirt and debris that can cause engine wear. The synthetic media used in EaOM filters is designed to capture and hold contaminants, preventing them from circulating through the engine. This helps to maintain engine efficiency and prolongs the life of the engine.

Durable Construction

AMSOIL Ea Motorcycle Oil Filters (EaOM) are constructed with a durable, high-strength metal canister. The canister is designed to withstand the high temperatures and pressures of the engine. The filter media is also designed to be durable and resistant to degradation. This ensures that the filter will provide maximum protection against wear for the life of the engine.

Multiple Applications

AMSOIL Ea Motorcycle Oil Filters (EaOM) are designed for use in a wide variety of motorcycle and powersports applications. They are suitable for use in both two-stroke and four-stroke engines. They are also suitable for use in a wide range of engine sizes, from small displacement engines to large displacement engines.



- Guards against engine wear
- Helps maintain engine efficiency
- Helps maintain engine power
- Filtration efficiency

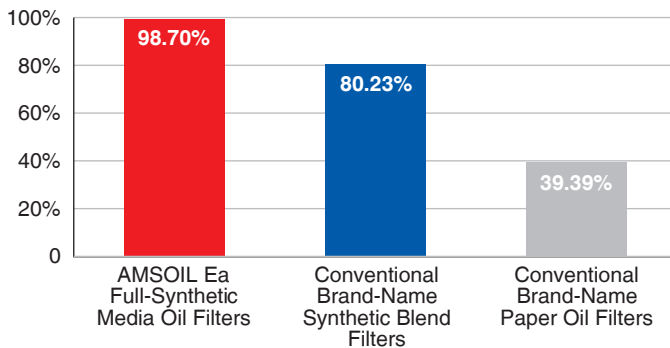
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Ea Motorcycle Oil Filter Service Life

For maximum engine protection, AMSOIL recommends changing Ea Motorcycle Oil Filters at every oil change.

Filter Efficiency @ 20 Microns per ISO 4548-12



AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.

RECOMMENDED ACCESSORIES

Filter wrenches with a 3/8" square drive offered by AMSOIL are designed to install and remove AMSOIL Ea Oil Filters and Ea Motorcycle Oil Filters in hard-to-reach locations.

Filter Wrench (64 mm) (GA265) Recommended for AMSOIL Ea Oil Filters and Ea Motorcycle Oil Filters EA15K09, EA15K10, EA15K12, EA15K13, EAO14, EAOM103, EAOM103C, EAOM109.

Filter Wrench (74 mm) (GA258) Recommended for AMSOIL Ea Motorcycle Oil Filters EAOM122C, EAOM132, EAOM132C, EAOM133, EAOM133C, EAOM137C.

Filter Wrench (76 mm) (GA251) Recommended for AMSOIL Ea Oil Filters and Ea Motorcycle Oil Filters EAO17, EAO18, EAO23, EA15K29, EA15K32, EAO34, EAO37, EAO38, EA15K50, EA15K51, EAO64, EAOM122, EAOM134, EAOM134C, EAOM135, EAOM135C, EAOM136C, EAOM138.



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The First in Synthetics

DATA BULLETIN

Motorcycle Octane Boost

Maximizes Power and Efficiency

AMSOIL Motorcycle Octane Boost (MOB) increases octane for maximum power and efficiency. It is designed to improve startup performance and eliminate engine ping or knock for increased power at low-rpm operation. Motorcycle Octane Boost contains detergents that help combustion chambers and fuel delivery systems maintain cleanliness for optimum performance. At the recommended treat rate, it does not harm catalytic converters or oxygen sensors and is compatible with all other AMSOIL fuel additives.

Maximizes Power & Performance

Improves Low-rpm Performance

Cleans Harmful Deposits



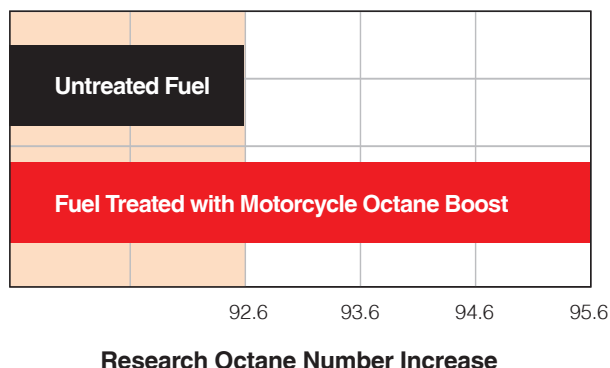
What is engine knock and why does it matter?

The tendency of a hydrocarbon fuel, such as gasoline, to knock is measured by its octane number. Lower numbers denote a greater knock tendency; higher numbers denote greater knock control. "Engine knock" is a reference to the sound made from an uncontrolled and early ignition of fuel in the combustion chamber. It causes a knocking or pinging sound, robs the engine of power and can cause catastrophic engine damage. Knock may be eliminated by increasing the fuel's octane.

What is Research Octane Number?

Research Octane Number (RON), Motor Octane Number (MON) and Anti-Knock Index (AKI) are the three most common octane ratings. AKI, the rating with which most North American motorists are familiar, is typically displayed on gas pumps as the average of the fuel's RON and MON $[(R+M)/2]$. RON, however, is the most common industry rating. Therefore, AMSOIL uses the RON rating when conducting performance tests and product validation. Gasoline's RON generally is a few numbers higher than the AKI posted on the gas pump (e.g. 87 octane fuel, or regular pump gas, has a RON of about 91-92).

AMSOIL Motorcycle Octane Boost Increases Research Octane up to 3 Numbers



When marketing their products, some additive manufacturers have adopted a points system where 10 points equals one octane number. A claim that an additive increases octane 30 points translates into an increase of three octane numbers. This approach is often used only to artificially strengthen marketing claims and is not endorsed by AMSOIL.

Treat Rate

One 4-oz. bottle of AMSOIL Motorcycle Octane Boost treats four to six gallons of gasoline.

APPLICATIONS

Motorcycle Octane Boost is primarily recommended for use in four-stroke air- or liquid-cooled motorcycles manufactured by Harley-Davidson*, Yamaha*, Honda*, Ducati*, BMW*, Triumph* and all other four-stroke motorcycles. It may be used in off-road applications, including ATVs, UTVs and snowmobiles, as an alternative to AMSOIL DOMINATOR® Octane Boost.

Note: Clean spills immediately using a clean towel. If left standing, Motorcycle Octane Boost can stain painted or metal surfaces. If cleaned immediately, there is no need for concern.

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 or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Don't pollute.

For AMSOIL warranty information, visit www.amsoil.com/warranty.aspx.

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The First in Synthetics

DATA BULLETIN

AMSOIL Synthetic 2-Stroke Injector Oil

Strenuous conditions define the normal operating environments of snowmobiles and boats. Without the right lubrication, two-stroke snowmobile engines and outboard motors run hotter, accumulate deposits and suffer a reduction in performance. AMSOIL Synthetic 2-Stroke Injector Oil offers the convenience of one formula for the tough conditions of all two-stroke recreational equipment. It is tested and proven to minimize wear and deposits that can damage internal components. AMSOIL Synthetic 2-Stroke Injector Oil provides quality and affordability for cost-conscious enthusiasts who want the benefits of synthetic two-stroke oil.



Wear Protection

Engine Cleanliness

Cold-Temperature Performance

• Reduces engine wear and deposits

• Provides superior cold-weather performance

• Controls carbon buildup

• 100% Pure Synthetic

Typical Technical Properties – AMSOIL Synthetic 2-Stroke Injector Oil (AIO)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	6.9
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	35.3
Viscosity Index (ASTM D2270)	161
Pour Point, °C (°F) (ASTM D97)	< -53 (-63)
Flash Point, °C (°F) (ASTM D92)	88 (191)
Fire Point, °C (°F) (ASTM D92)	88 (191)
SAE J1536 Fluidity/Miscibility Grade 4 Arctic Climate (17,000 cP max @ -40°C)	Pass

APPLICATIONS

Use in two-stroke outboard motors and snowmobiles that require API TC or TC-W3 two-stroke oil, including those made by BRP*/Evinrude*/Johnson*/Ski-Doo*, Polaris*, Mercury*, Arctic Cat*, Yamaha*, Suzuki*, Kawasaki*, Mariner* and Force*.

Use as injection oil or 50:1 pre-mix (2.6 oz. per U.S. gallon of gas).

For Evinrude factory-lean setting, use AMSOIL HP Marine™ Synthetic 2-Stroke Oil.

COMPATIBILITY

AMSOIL Synthetic 2-Stroke Injector Oil is compatible with most conventional and synthetic two-stroke oils; however, for best performance, mixing oils should be minimized.

WARRANTY SECURE®

AMSOIL Synthetic 2-Stroke Injector Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL Injector Oil is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty (G1363). For details, visit www.amsoil.com/warrantysecure.



HEALTH AND SAFETY

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TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Dirt Bike Oil

	DB40	DB50	DB60
Kinematic Viscosity @ 100°C, cSt (ASTM D445).....	14.2	18.1	23.5
Kinematic Viscosity @ 40°C, cSt (ASTM D445).....	93.5	121.9	160.1
Viscosity Index (ASTM D2270).....	156	165	177
Flash Point, °C (°F) (ASTM D92).....	246 (475)	240 (464)	240 (464)
Fire Point, °C (°F) (ASTM D92).....	254 (489)	258 (496)	258 (496)
Pour Point, °C (°F) (ASTM D97).....	-44 (-47)	-38 (-36)	-38 (-36)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800).....	4.0	5.5	4.5
High-Temperature/High-Shear Viscosity @150°C, 1.4 x 10 ⁶ s ⁻¹ , cP (ASTM D5481).....	4.1	4.9	5.8
Four-Ball Wear Test (ASTM D4192 @ 40 kgf, 150°C, 1800 rpm, 1 hr) scar, mm.....	0.39	0.39	0.39
Foam (ASTM D5182, Sequence I, II & III).....	0/0, 20/0, 0/0	0/0, 20/0, 0/0	0/0, 20/0, 0/0
Total Base Number.....	6.62	6.62	6.62

RACING IS RESEARCH™

AMSOIL Synthetic Dirt Bike Oil underwent extensive on-track testing in the bikes of AMSOIL-sponsored professional riders on the GEICO/AMSOIL/Honda Factory Connection and Team Babbitt's racing teams. A combination of racer feedback and lab testing allowed AMSOIL to fine-tune AMSOIL Synthetic Dirt Bike Oil for outstanding wear protection and consistent clutch feel – benefits riders demand.

APPLICATIONS

Use **10W-40 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-40 motorcycle oil, including those made by Honda*, Yamaha*, Kawasaki*, Suzuki* and Husqvarna. Recommended for separate-sump applications, including the Honda CRF, and many two-stroke dirt bikes. JASO MA; API SG, SJ, SH, SL.

Use **10W-50 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-50 motorcycle oil, including those made by KTM*, Kawasaki, Yamaha, Suzuki and Husqvarna. JASO MA; API SG, SJ, SH, SL.

Use **10W-60 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-60 motorcycle oil, including those made by KTM and Husqvarna. JASO MA; API SG, SJ, SH, SL.

SERVICE LIFE

AMSOIL Synthetic Dirt Bike Oil should be changed according to the vehicle manufacturer's recommendations.

COMPATIBILITY

AMSOIL Synthetic Dirt Bike Oil is compatible with other synthetic and conventional motor oils. Adding other oils, however, will shorten the life expectancy of AMSOIL motor oils and reduce their 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 Dirt Bike Oil.

WARRANTY SECURE

AMSOIL Synthetic Dirt Bike Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL Synthetic Dirt Bike 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

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The First in Synthetics

DATA BULLETIN

Synthetic Dirt Bike Transmission Fluid

Designed to Improve the Performance of Bike and Rider

Grabbing the holeshot in a race or maneuvering around obstacles on the trail requires a transmission fluid that doesn't slip or grab. AMSOIL Synthetic Dirt Bike Transmission Fluid is specifically formulated to provide consistent clutch feel, delivering riders confidence their clutch will respond the way they want. It also guards against gear and clutch wear so enthusiasts can spend more time riding and less performing maintenance. AMSOIL Synthetic Dirt Bike Transmission Fluid is a cost-effective, high-performance alternative to original equipment manufacturer (OEM) fluids.

AMSOIL INC., the premier manufacturer of synthetic motorcycle lubricants, focuses on improving lubricant performance so riders can focus on improving their performance on the trail or the track. That's why AMSOIL is the Official Oil of Monster Energy Supercross, AMSOIL Arenacross, AMSOIL GNCC and the AMA Amateur Nationals.



Confidence in Clutch Feel

AMSOIL Synthetic Dirt Bike Transmission Fluid is specifically formulated to provide consistent clutch feel, delivering riders confidence their clutch will respond the way they want. It also guards against gear and clutch wear so enthusiasts can spend more time riding and less performing maintenance.

Protects Against Gear & Clutch Wear

AMSOIL Synthetic Dirt Bike Transmission Fluid is specifically formulated to provide consistent clutch feel, delivering riders confidence their clutch will respond the way they want. It also guards against gear and clutch wear so enthusiasts can spend more time riding and less performing maintenance.

TYPICAL TECHNICAL PROPERTIES
AMSOIL Synthetic Dirt Bike Transmission Fluid (DBTF)

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	10.3
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	66.5
Viscosity Index (ASTM D2270)	142
Pour Point, °C (°F) (ASTM D97)	-44 (-47)
Flash Point, °C (°F) (ASTM D92)	248 (478)
Fire Point, °C (°F) (ASTM D92)	266 (511)
Four-Ball Wear Test (ASTM D4172)	
Para 1 (75°C, 1200 rpm, 40 kg, 1 hr)	0.35
Para 3 (150°C, 1800 rpm, 40 kg, 1 hr)	0.41

APPLICATIONS

Use in two- and four-stroke dirt bikes that use a separate sump, including those made by Honda*, Yamaha*, Kawasaki*, Suzuki*, Husqvarna* and KTM*.

RECOMMENDATIONS

Change AMSOIL Synthetic Dirt Bike Transmission Fluid according to the vehicle manufacturer's recommendations.

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 or upon request at (715) 392-7101. Keep Out of Reach of Children. Recycle used oil and bottle.

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The First in Synthetics

DATA BULLETIN

V-Twin Synthetic Primary Fluid

AMSOIL V-Twin Synthetic Primary Fluid is purpose-built for bikers who prefer a dedicated primary chaincase lubricant. Its balanced formulation delivers consistent clutch feel for confident starts, helping riders avoid killing the engine. It also protects components against wear to help riders get the most out of their bikes. V-Twin Synthetic Primary Fluid is Warranty Secure™ and will not void your motorcycle's warranty. It is a cost-effective, high-performance alternative to original equipment manufacturer (OEM) fluids.

Delivers Consistent Clutch Feel & Smooth Acceleration



Protects Against Chain, Gear & Bearing Wear

Helps Reduce Operating Temperatures

AMSOIL V-Twin Synthetic Primary Fluid is formulated with advanced synthetic base oils and additives to help reduce operating temperatures. This helps protect components against wear and tear, extending the life of your motorcycle.

Maximizes Energy Efficiency

AMSOIL V-Twin Synthetic Primary Fluid is formulated with advanced synthetic base oils and additives to help maximize energy efficiency. This helps reduce energy lost to drag in the primary chaincase, resulting in smoother acceleration at startup and

- Delivers consistent clutch feel
- Helps prevent slip
- Eases shifts to neutral
- Provides consistent clutch feel
- Helps prevent slip
- Eases shifts to neutral
- Protects against wear

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TYPICAL TECHNICAL PROPERTIES
AMSOIL V-Twin Synthetic Primary Fluid (MVP)

Table with 2 columns: Property and Value. Rows include Kinematic Viscosity @ 100°C, Kinematic Viscosity @ 40°C, Viscosity Index, Pour Point, Flash Point, Fire Point, Four-Ball Wear Test, and JASO T 904 Friction Test.

APPLICATIONS

Harley Davidson*, Triumph* and pre-2013 INDIAN* bikes.

RECOMMENDATIONS

V-Twin Synthetic Primary Fluid is recommended for up to 10,000 miles or one year, whichever comes first.

WARRANTY SECURE™

AMSOIL V-Twin Synthetic Primary Fluid is Warranty Secure, keeping your factory warranty intact. AMSOIL V-Twin Synthetic Primary Fluid is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty (G1363). For details, visit www.amsoil.com/warrantysecure.



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 or upon request at (715) 392-7101. Keep Out of Reach of Children. Don't pollute. Return used oil to collection centers.

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The First in Synthetics

DATA BULLETIN

Synthetic V-Twin Transmission Fluid

AMSOIL Synthetic V-Twin Transmission Fluid is specifically designed for bikers who prefer a dedicated transmission fluid over a multi-use lubricant. Its frictional properties deliver smooth shifts and it helps quiet transmission noise, letting riders focus on enjoying the ride. AMSOIL Synthetic V-Twin Transmission Fluid is Warranty Secure™ and will not void your motorcycle's warranty. It is a cost-effective, high-performance alternative to original equipment manufacturer (OEM) fluids.

Promotes Quiet Operation

Protects Against Gear and Bearing Wear

Delivers Smooth Shifts



- Promotes quiet operation
- Enables smooth shifts
- Delivers smooth shifts
- Holds its viscosity

TYPICAL TECHNICAL PROPERTIES
AMSOIL Synthetic V-Twin Transmission Fluid (MVT)

Table with 2 columns: Property and Value. Properties include Kinematic Viscosity @ 100°C, Kinematic Viscosity @ 40°C, Viscosity Index, Pour Point, Flash Point, Fire Point, Four-Ball Wear Test, NOACK Volatility, and Foam.

APPLICATIONS

Engineered for use in Harley-Davidson®, Triumph® and pre-2013 INDIAN® bikes.

RECOMMENDATIONS

AMSOIL Synthetic V-Twin Transmission Fluid is recommended for up to 20,000 miles or one year, whichever comes first.

WARRANTY SECURE™

AMSOIL Synthetic V-Twin Transmission Fluid is Warranty Secure, keeping your factory warranty intact. AMSOIL Synthetic V-Twin Transmission Fluid is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty (G1363). For details, visit www.amsoil.com/warrantysecure.



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 or upon request at (715) 392-7101. Keep Out of Reach of Children. Don't pollute. Return used oil to collection centers.

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

Official Oil

AMSOIL Synthetic Motorcycle Oil is the Official Oil of many of the largest and most influential motorcycle organizations and events in the world. Its quality is recognized universally by hardcore riders, casual enthusiasts and professionals worldwide.



Contact your local full-service AMSOIL Dealer for more information on AMSOIL products or to place an order. You may also order direct by calling AMSOIL INC. at 1-800-956-5695 and providing the referral number listed here. ▼

Referral # _____

Metric Motorcycles



SYNTHETIC
MOTOR OILS



AMSOIL EA®
FILTERS



ACCESSORY
PRODUCTS



You can't beat the freedom of climbing aboard your bike and hitting the road. Every ride brings a rush of adrenaline and another opportunity for adventure. Nothing kills that feeling faster than unreliable clutch feel or an overheated bike. AMSOIL Synthetic Metric Motorcycle Oil is specifically engineered to meet the unique demands of metric bikes. Advanced synthetic technology protects your bike and your pursuit of freedom.



AMSOIL Synthetic Metric Motorcycle Oil

Excess friction and heat rob high-performance metric sport and cruiser engines of horsepower and longevity. Engine reliability is just as critical in touring bikes accumulating thousands of miles on the open road.

AMSOIL Synthetic Metric Motorcycle Oil is durable and long-lasting. Its superior wet-clutch properties ensure smooth, confident shifts while its robust formulation resists the harmful effects of extreme heat. It controls foam during high-rpm operation and guards against wear for superior engine reliability.

- **Premium** wear protection
- **Smooth, confident** shifts
- **Cool**, clean performance

Check your owner's manual or the Motorcycle Product Guide at amsoil.com for specific viscosity grade recommendations.

AMSOIL Ea® Motorcycle Filters

Made from full-synthetic media, AMSOIL Ea Motorcycle Filters trap and hold more contaminants than other filters. They last longer, stop smaller dirt particles and offer reduced restriction for maximum engine performance and protection.



AMSOIL Quickshot®

Degraded fuel presents major problems for motorcycle engines. It can form varnish, gum and insoluble debris that clog carburetors, fuel injectors and fuel filters. Carbon buildup can form on the tops of pistons, causing pre-ignition, rough idling and poor throttle response. AMSOIL Quickshot is formulated to thoroughly clean and restore peak performance in motorcycle fuel systems. Its revolutionary technology addresses problems associated with ethanol, water and dirty pump gas.

- **Fights** ethanol-related problems
- **Cleans** varnish, gum and insoluble debris
- **Stabilizes** fuel between uses & during short-term storage



Motorcycle Octane Boost

- **Maximizes** power and performance
- **Helps** eliminate engine knock
- **Cleans** harmful deposits



Shock Therapy® Suspension Fluid

- **Controls** friction and heat
- **Limits** shock fade and inconsistent dampening
- Light #5: **Quick rebounds** under extreme temperatures
- Medium #10: **More dampening** & slower rebounds



Chain Lube

- **Protects** against wear and corrosion
- **Helps** extend chain life
- **Does** not attract dirt



Miracle Wash®

- **Requires** no water
- **Holds** dirt in suspension while bike is wiped clean
- **Protects** against UV rays



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Accessory Products

AMSOIL offers a variety of accessory products, including fuel additives, suspension fluids, protectants and more. For details on all AMSOIL motorcycle products contact your local full-service AMSOIL Dealer.



Contact your local full-service AMSOIL Dealer for more information on AMSOIL products or to place an order. You may also order direct by calling AMSOIL INC. at 1-800-956-5695 and providing the referral number listed here. ▼

Referral # _____

V-Twin Motorcycles



There is nothing quite like jumping on a big V-twin and hearing that rumble. The fresh air and freedom to go anywhere you choose brings unmatched satisfaction. Nothing kills that feeling faster than a noisy transmission or an overheated bike. AMSOIL V-twin products are engineered to address the specific demands of V-twin motorcycles. Advanced synthetic technology protects your bike and the spirit of the American biker.



Check your owner’s manual or the Motorcycle Product Guide at amsoil.com for specific viscosity grade recommendations.

AMSOIL Synthetic Motorcycle Oil
Hot-running V-twins pose significant challenges to lubricants, especially in low-speed parades, in rally traffic or on long climbs on hot days. Motor oil plays a critical role in cooling these big air-cooled engines, and even more so in low-speed operation with limited wind generated to cool the bike. If the oil can’t withstand the heat, its ability to protect your bike is compromised.

AMSOIL Synthetic V-Twin Motorcycle Oil is durable and long-lasting. It resists extreme heat and viscosity loss due to shear, keeping your V-twin protected in the toughest riding conditions.

- **Resists** extreme heat
- **Retains** viscosity
- **Guards** against wear
- **Excellent** for transmissions & primary chaincases

Outstanding Transmission & Primary Chaincase Protection
AMSOIL Synthetic V-Twin Motorcycle Oil not only delivers superior engine protection, it provides outstanding protection and performance in motorcycle transmissions and primary chaincases. It is the primary recommendation for V-twin transmissions and primary chaincases.

- **Absolutely** shear-stable
- **Promotes** smooth shifts
- **Delivers** positive clutch engagement
- **Helps** prevent clutch slippage & glazing

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AMSOIL Synthetic V-Twin Transmission & Primary Fluids

Some bikers prefer using separate primary and transmission fluids rather than multi-functional oils designed to protect the primary, transmission and engine. AMSOIL Synthetic V-Twin Transmission Fluid and AMSOIL Synthetic V-Twin Primary Fluid are perfect for bikers who prefer a dedicated lubricant over a multi-use product.

AMSOIL Synthetic V-Twin Transmission Fluid's frictional properties deliver smooth shifts and help quiet transmission noise.

- **Protects** against gear & bearing wear
- **Delivers** smooth shifts
- **Helps** eliminate loud thunks and gear noise

AMSOIL Synthetic V-Twin Primary Fluid's balanced formulation delivers consistent clutch feel for confident starts, helping you avoid killing the engine. It also protects components against wear to help you get the most years out of your bike.

- **Delivers** consistent clutch feel for confident starts
- **Helps** prevent clutch slip
- **Helps** riders easily find neutral
- **Provides** smooth acceleration



AMSOIL Products for All Harley-Davidson* Applications

AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil provides superior protection and performance for recent models of Harley-Davidson bikes, but older Harley engines require a different oil. AMSOIL delivers products that perform in all Harleys, including AMSOIL SAE 60 Synthetic V-Twin Motorcycle Oil and AMSOIL Synthetic V-Twin Transmission Fluid for classic Harley models.

Harley-Davidson Models

MODEL	ENGINE	TRANSMISSION	PRIMARY CHAINCASE
Flathead*	AMSOIL SAE 60 V-Twin Motorcycle Oil	AMSOIL Synthetic V-Twin Transmission Fluid or SAE 60 V-Twin Motorcycle Oil	—
Knucklehead*	AMSOIL SAE 60 V-Twin Motorcycle Oil	AMSOIL Synthetic V-Twin Transmission Fluid or SAE 60 V-Twin Motorcycle Oil	—
Panhead*	AMSOIL SAE 60 V-Twin Motorcycle Oil	AMSOIL Synthetic V-Twin Transmission Fluid or SAE 60 V-Twin Motorcycle Oil	—
Shovelhead*	AMSOIL SAE 60 V-Twin Motorcycle Oil	AMSOIL Synthetic V-Twin Transmission Fluid or SAE 60 V-Twin Motorcycle Oil	—
Evolution* 1340 & all Twin Cam*	AMSOIL 20W-50 V-Twin Motorcycle Oil	AMSOIL 20W-50 V-Twin Motorcycle Oil**	AMSOIL 20W-50 V-Twin Motorcycle Oil**
Ironhead*, Evolution Sportster* & V-Rod*	AMSOIL 20W-50 V-Twin Motorcycle Oil	AMSOIL 20W-50 V-Twin Motorcycle Oil**	AMSOIL 20W-50 V-Twin Motorcycle Oil**

***While AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil delivers outstanding performance in motorcycle transmissions and primary chaincases, some bikers prefer dedicated lubricants over multi-use products. AMSOIL Synthetic V-Twin Transmission Fluid and AMSOIL Synthetic V-Twin Primary Fluid are secondary recommendations in these applications.*

How does AMSOIL Stand Up to Extreme Heat?

AMSOIL 20W-50 Synthetic V-Twin Motorcycle Oil was tested in a 2012 Harley-Davidson Street Bob* that was run on an engine dyno for 250 hours (13,647 miles). The test was designed to create a motorcycle oil's biggest enemy – heat. The computer-controlled engine dyno was programmed to hold the bike at a steady 55 mph, alternating between low-torque (25 ft. lbs.) and high-torque (57 ft. lbs.) conditions to simulate highway cruising punctuated by periods of hill climbing. To add severity, test administrators adjusted the auxiliary cooling fan to artificially elevate the oil temperature to an average of 260°F. **AMSOIL 20W-50 Synthetic Motorcycle Oil protected against piston scuffing and wear to promote long engine life.**

No piston scuffing for long engine life



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Sturgis
MOTORCYCLE RALLY

AMSOIL Synthetic Motorcycle Oil is the Official Oil of many of the largest and most influential motorcycle organizations and events in the world. Its quality is recognized universally by hardcore riders, casual enthusiasts and professionals worldwide.