



## 20W-40 Synthetic V-Twin Motorcycle Oil

### High-Performance Lubricant for Engines and Transmissions

AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil (MVI) 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 20W-40 Synthetic V-Twin Motorcycle Oil is multi-functional and engineered for Victory® and model-year 2013 and newer Indian® motorcycles.

*AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil provides Indian and Victory riders with 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 semi-synthetic oils.*

#### Reduces Friction, Heat and Wear

AMSOIL 20W-40 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 20W-40 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 20W-40 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 20W-40 Synthetic V-Twin Motorcycle Oil contains special anti-rust agents, providing outstanding protection against rust and corrosion.

#### Catalytic-Converter Compatible

AMSOIL 20W-40 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

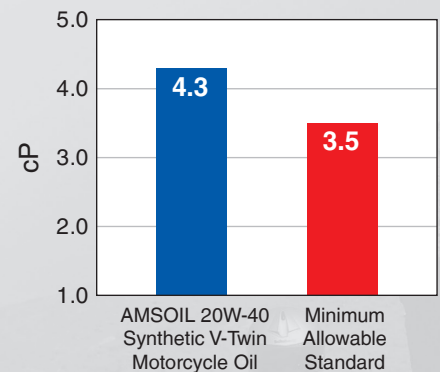
AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil delivers the confidence of quiet, smooth shifting and positive clutch engagement. It controls heat and helps prevent slippage and glazing, while its high TBN helps improve clutch life by resisting the acids that can degrade clutch material.



API SM  
JASO MA  
API GL-1

#### High-Temperature/High-Shear Viscosity Protection (ASTM D5481)

September 2014 Test Results



*The High-Temperature/High-Shear Viscosity Test measures a lubricant's viscosity under severe high-temperature and shear conditions, similar to severe operating conditions experienced by motorcycles.*

*Higher values reflect better film strength and better protection.*

## TYPICAL TECHNICAL PROPERTIES

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

Kinematic Viscosity @ 100°C, cSt (ASTM D445)	14.0
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	102.1
Viscosity Index (ASTM D2270)	139
Flash Point, °C (°F) (ASTM D92)	254 (489)
Fire Point, °C (°F) (ASTM D92)	272 (522)
Pour Point, °C (°F) (ASTM D97)	-39 (-38)
High-Temperature/High-Shear Viscosity (ASTM D5481 @ 150°C, 1.0 X 10 <sup>6</sup> s <sup>-1</sup> ), cP	4.3
Four-Ball Wear Test (ASTM D4172 @ 40kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.38
NOACK Volatility, % weight loss (g/100g) (ASTM D5800)	3.6
Foam (ASTM D892, Sequence I, II & III)	0/10/0
Total Base Number	7.9

## APPLICATIONS

AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil is recommended for air- or liquid-cooled Indian, Victory and other four-stroke motorcycles calling for a 20W-40 motor oil. It meets API SM, JASO MA and API GL-1 specifications, providing outstanding protection for engines and transmissions.

## COMPATIBILITY

AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil is compatible with other conventional and synthetic motor oils; however, mixing oils may 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 V-Twin Motorcycle Oil.

## SERVICE LIFE

**For on-road use in engines and transmissions,** AMSOIL 20W-40 Synthetic V-Twin Motorcycle Oil and AMSOIL Ea<sup>®</sup> Motorcycle Oil Filters 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 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 20W-40 Synthetic V-Twin Motorcycle Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL 20W-40 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](http://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](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.



Jeff Fisher

[www.SyntheticOils.us](http://www.SyntheticOils.us)

866-292-4700

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