



The First in Synthetics®

Synthetic 20W-50 Motorcycle Oil

API SG, SL/CF • JASO MA/MA2 • API GL-1

High Performance Lubricant for Engines, Transmissions and Primary Chaincases



PRODUCT DESCRIPTION

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

AMSOIL MCV is multi-functional and fulfills the requirements of both domestic and foreign motorcycles. It 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 Synthetic Motorcycle Oil. It has the best high temperature film strength (see High Temperature Viscosity Protection graph below) of all oils tested and contains a heavy treatment of anti-wear additives to reduce wear regardless of the operating conditions (see Wear Comparison graph on reverse). AMSOIL MCV 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.

Provides Extreme Pressure Quality Protection for Gears and Chains

With AMSOIL MCV, there is no need for separate transmission or primary chaincase lubricants. It is absolutely shear stable and will not thin out from mechanical activity. AMSOIL MCV performs like a gear lube without the negative effects of extreme pressure additives. In the FZG gear test, AMSOIL MCV achieved a perfect score with a "zero" wear rating (see photo below).

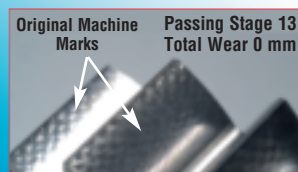
Delivers Superior Rust Protection

Motorcycles are prone to rust from storage, humidity and short drives. Rust can cause major damage such as roller bearing failure, uncontrolled 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 MCV contains special anti-rust agents. It passes the ASTM D-1748 humidity cabinet rust test and clearly demonstrates superior rust protection (see photo on reverse).

Provides Excellent Wet Clutch Performance

AMSOIL MCV contains no friction modifiers and promotes smooth shifting and positive clutch engagement. AMSOIL MCV controls heat and prevents slippage and glazing, and its high TBN resists acids that can degrade clutch material, helping improve clutch life.

FZG Gear Test (ASTM D-5182)

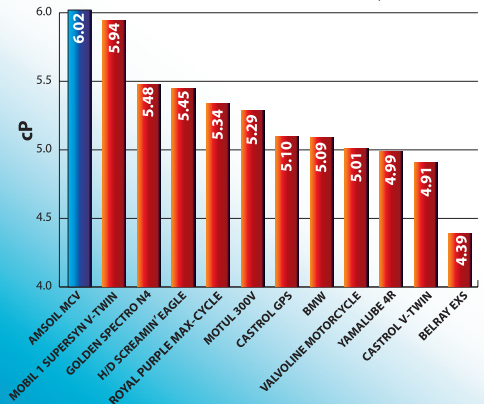


AMSOIL 20W-50 (MCV)



Motul 300V 15W-50

20W-50 Motorcycle Oil - High Temperature Viscosity Protection
Higher values reflect better film strength.
ASTM TEST METHOD D-4683 March 16, 2005



TYPICAL TECHNICAL PROPERTIES

AMSOIL High Performance Synthetic 20W-50 Motorcycle Oil (MCV)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	20.1
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	151.98
Viscosity Index (ASTM D-2270)	153
Pour Point °C (°F) (ASTM D-97)	-39 (-38)
Flash Point °C (°F) (ASTM D-92)	240 (464)
High-Temperature/High-Shear Viscosity (ASTM D-4683 @ 150°C, 1.0 X 10 ⁶ s-1), cP	6.02
Four-Ball Wear Test (ASTM D-4172 @ 40 kgf, 150°C, 1800 rpm, 1 hr), Scar, mm	0.40
FZG (ASTM D-5182), Load Stage Pass (Wear in mm)	13 (0 mm)
Noack Volatility, % weight loss (g/100g) (ASTM D-5800)	3.89
Foam (ASTM D-892, Sequence I, II & III)	0/0/0
Shear Stability Kurt Orbahn (ASTM D-6278), % viscosity change 120 cycles	0.25
Rust Test - Humidity Cabinet (ASTM D-1748)	No Rust, PASS
Total Base Number	11

APPLICATIONS

AMSOIL Synthetic 20W-50 Motorcycle Oil is recommended for air or liquid cooled 4-stroke engines. It meets SAE 90, API GL-1 gear oil requirements and is recommended for transmissions and primary chaincases. AMSOIL MCV is recommended for Harley Davidson®, Buell®, KTM, Ducati®, Aprilia®, BMW®, Triumph® and other motorcycles where 15W-50 or 20W-50 engine oils or SAE 90, GL-1 gear oils are used. Not recommended where an API GL-4 or GL-5 gear oil is required.

MIXING AMSOIL

AMSOIL Synthetic 20W-50 Motorcycle Oil is compatible with conventional and synthetic motor oils; however, mixing oils may shorten the oil life expectancy and reduce the performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are not recommended for use with AMSOIL motorcycle oil.

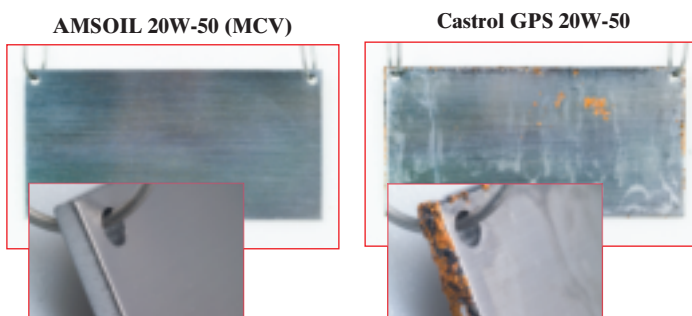
SERVICE LIFE

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.

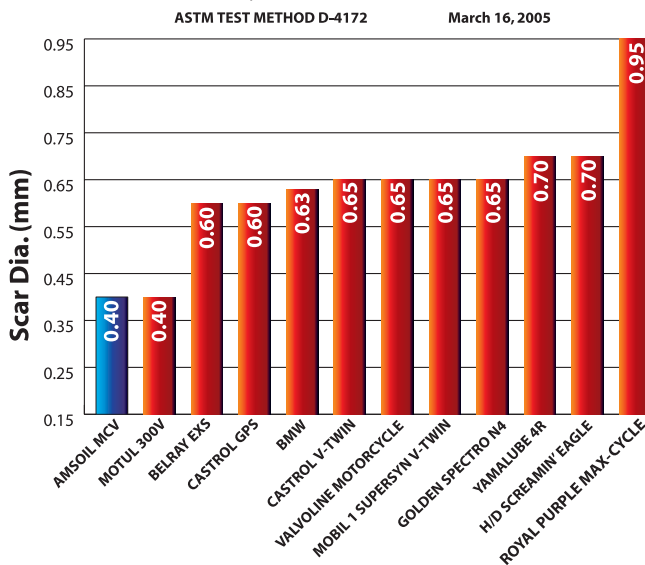
For "off-road" use, change AMSOIL MCV at motorcycle manufacturer intervals.

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

Rust Test (ASTM D-1748)



20W-50 Motorcycle Oil - Wear Comparison



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

