



*The First in Synthetics*®

# MOTORCYCLE PRODUCTS



***AMSOIL synthetic motorcycle oils deliver maximum protection, power and performance for all makes of motorcycles.***

# AMSOIL Synthetic 20W-50 and 10W-40 Motorcycle Oils

## Superior Wear Protection for Motorcycles.

AMSOIL Synthetic Motorcycle Oils are formulated with premium synthetic base stocks and high performance additive technology that provide superior multi-functional benefits for the special requirements of motorcycle applications. These independent and exclusive AMSOIL formulations provide second-to-none viscosity protection for hot-running American and foreign motorcycle engines, transmissions and primary chaincases.

AMSOIL 20W-50 Synthetic Motorcycle Oil (MCV) is recommended for Harley-Davidson, Buell, Victory, Ducati, BMW, Aprilia and Triumph motorcycles calling for a 15W-50 or 20W-50 viscosity, providing superior protection in engines, transmissions and primary chaincases.

AMSOIL 10W-40 Synthetic Motorcycle Oil (MCF) is recommended for Honda, Kawasaki, Yamaha, Suzuki, BMW, Husqvarna and KTM motorcycles calling for a 10W-40 or 20W-40 viscosity, providing superior protection in engines and transmissions.

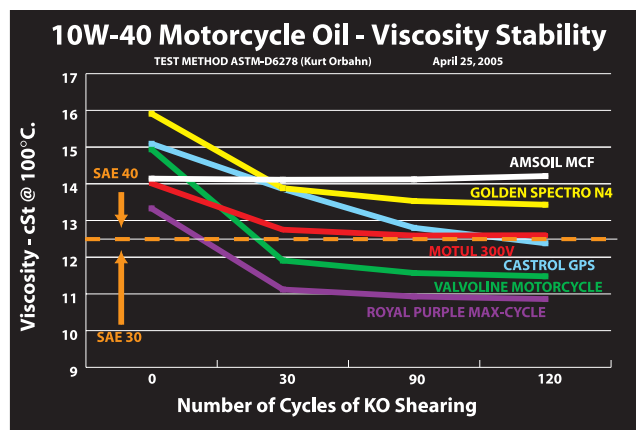
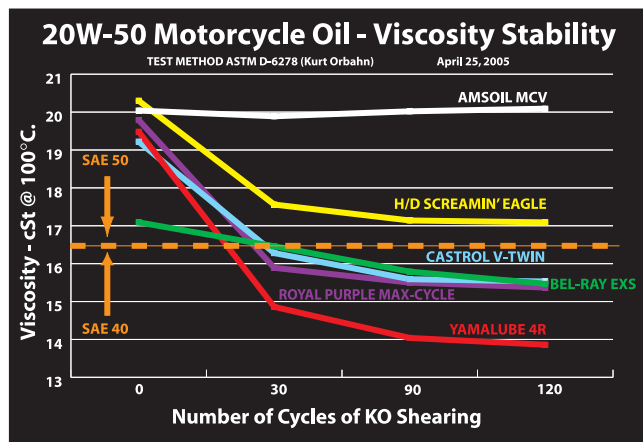
AMSOIL 10W-40 Synthetic Motorcycle Oil (MCF) is also an exceptional product for any two-cycle motorcycle transmissions requiring a 10W-40 lubricant.

### MAXIMUM TRANSMISSION PROTECTION

AMSOIL Synthetic Motorcycle Oils not only provide superior protection for motorcycle engines, they also provide superior gear protection, meeting API GL-1 and SAE 80W/90 (MCF) and SAE 90 (MCV) gear lube requirements.

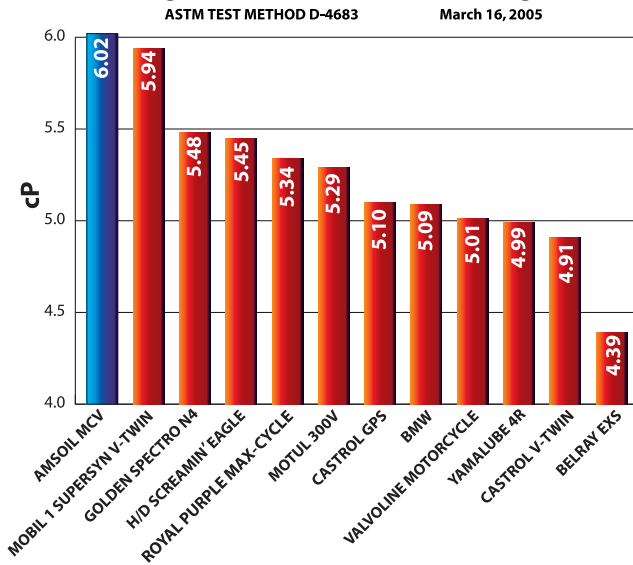


Viscosity is the most important characteristic of a lubricant. Motorcycle gears create a shearing effect that causes permanent oil viscosity loss. This thinning effect reduces the oil's ability to prevent metal-to-metal contact and wear. AMSOIL Synthetic Motorcycle Oils exhibit absolute shear stability as measured by the industry recognized Kurt Orbahn shear stability test (ASTM D-6278). They provide superior protection compared to competitive oils and eliminate the need for separate gearbox or chaincase oils.



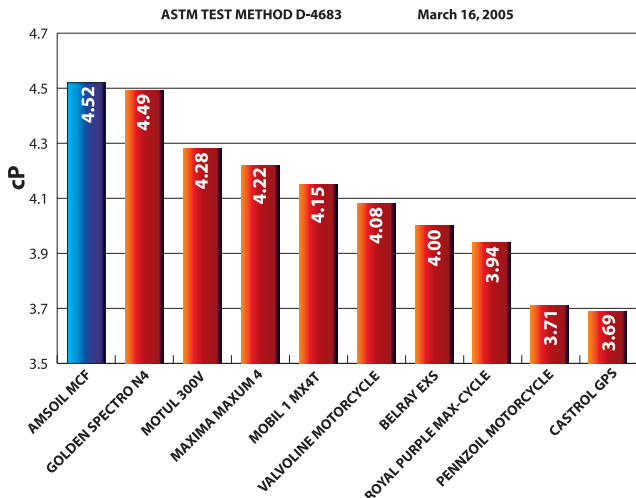
## 20W-50 Motorcycle Oil - High Temperature Viscosity Protection

Higher values reflect better film strength.



## 10W-40 Motorcycle Oil - High Temperature Viscosity Protection

Higher values reflect better film strength.



The high temperatures and tight tolerances common to motorcycle applications also affect viscosity. The High Temperature/High Shear (HTHS) Test (ASTM D-4683) measures a lubricant's viscosity under severe high temperature and shear conditions. The more resistant an oil is to high temperature viscosity loss, the better it protects, and even a HTHS difference of 0.1 cP makes a significant difference.

AMSOIL Synthetic Motorcycle Oils exhibit the highest HTHS viscosities of competing synthetic and conventional motorcycle oils. They provide the best high temperature viscosity protection, giving motorcycle owners peace-of-mind during extensive idle times or when riding in hot weather conditions.

## EXCELLENT WET CLUTCH PERFORMANCE

Many motorcycles utilize a clutch that is immersed in the motor oil. The friction modifiers present in many automotive motor oils and the extreme pressure addi-

tives present in EP gear lubricants produce a low coefficient of friction between the clutch discs and plates, resulting in clutch slippage and glazing. Slippage leads to increased operating temperatures and reduced clutch life. AMSOIL Synthetic Motorcycle Oils are formulated without friction modifiers, providing positive clutch engagement, longer equipment life and reduced temperatures. AMSOIL Synthetic Motorcycle Oils meet the clutch compatibility requirements mandated by JASO MA.

## EXCELLENT CORROSION PROTECTION

Most motorcycles spend the majority of their lives either parked or in storage, but most motorcycle oils fail to address corrosion problems. Corrosion protection during storage and in humid conditions is essential to extending equipment life. AMSOIL Synthetic Motorcycle Oils are formulated with specialized additive technology that not only protect against corrosion and acids during operation, but also provide exceptional protection during storage. The ASTM D-1748 Rust Test measures a lubricant's ability to protect against rust and corrosion. A standard metal reference coupon is immersed in the test oil before being placed in a humidity cabinet for 24 hours at 120 degrees F. As seen in the photos, the reference coupon treated with AMSOIL 20W-50 Synthetic Motorcycle Oil showed no signs of rust and corrosion, while the competitor failed the test.

AMSOIL 20W-50 (MCV)



Castrol GPS 20W-50



TEST DATE: APRIL 20, 2005

## OUTSTANDING HEAT RESISTANCE

Motorcycles operate in demanding, high heat conditions that require robust high temperature deposit control additives. While many conventional oils break down and oxidize when faced with high temperatures, causing formation of carbon and sludge deposits, AMSOIL Synthetic Motorcycle Oils effectively withstand oil breakdown and oxidation, keeping equipment running cooler and minimizing oil consumption, thickening and emissions. Air-cooled engines get especially hot while idling in traffic, commonly reaching temperatures of 270 degrees Fahrenheit or higher. The extra margin of protection provided by AMSOIL Synthetic Motorcycle Oils is especially important for hot-running air-cooled motorcycle engines.

## FOAM CONTROL

High engine speeds and transmission gears in motorcycles churn the oil, suspending air and causing foam. When this oil and air mixture is drawn into a loaded area, the air compresses and decreases the thickness of the oil film, compromising wear protection. In addition, suspended air promotes oil oxidation, reducing its service life. AMSOIL Synthetic Motorcycle Oils provide outstanding foam control and are formulated with anti-foam agents that allow for quick air release. They provide long term lubricating protection in high speed, high RPM conditions.

## UNSURPASSED WEAR PROTECTION

The Four Ball Wear Test (ASTM D-4172) determines the wear protection properties of a lubricant. The smaller the average wear scar, the better the wear protection provided by the lubricant. AMSOIL Synthetic Motorcycle Oils produce significantly smaller wear scars than competing motorcycle oils, providing unsurpassed protection against engine wear, reducing maintenance costs and extending equipment life.

### AMSOIL SYNTHETIC MOTORCYCLE OILS

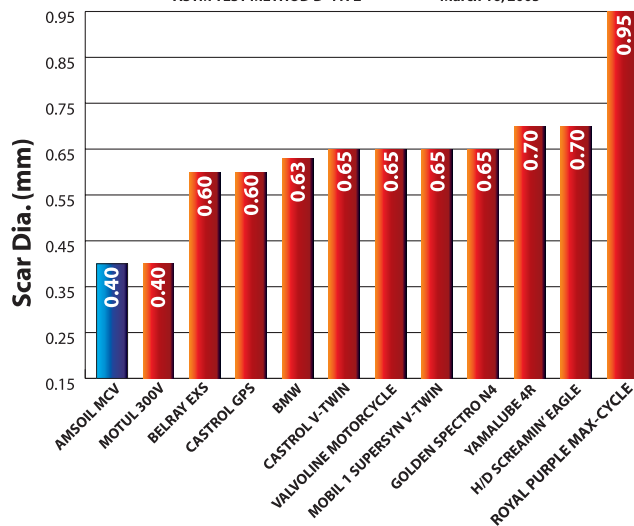
- *Excellent for roller bearings and does not cause "skate" or "float" in V-Twin Engines*
- *Prevents foaming in high-RPM engines*
- *Eliminates the need for multiple lubricants*
- *Absolute shear stability maintains protective viscosity in high heat, high shear conditions*
- *Better performance and price than competitive motorcycle oils*
- *Recommended for twice the manufacturer's recommended drain interval for on-road motorcycles*
- *Provide exceptional protection against rust and corrosion during storage*
- *Robust anti-wear additive packages provide superior wear protection and longer equipment life*

## 20W-50 Motorcycle Oil - Wear Comparison

The smaller the wear scar, the better the protection.

ASTM TEST METHOD D-4172

March 16, 2005

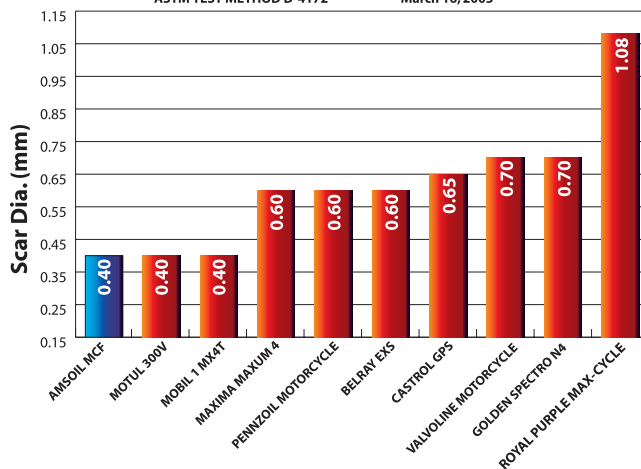


## 10W-40 Motorcycle Oil - Wear Comparison

The smaller the wear scar, the better the protection.

ASTM TEST METHOD D-4172

March 16, 2005



## COST EFFECTIVE

AMSOIL Synthetic Motorcycle Oils provide excellent cost effectiveness and are cost competitive with competing high end motorcycle oils. The unmatched protection and performance provided by AMSOIL Synthetic Motorcycle Oils is excellent insurance for today's expensive motorcycles and custom bikes.

AMSOIL Synthetic Motorcycle Oils are recommended for twice the manufacturer's recommended drain interval for on-road motorcycles.

# AMSOIL 2-Cycle Oils

Today's high-stress, high-revving, two-cycle motorcycle engines demand superior lubrication for optimal performance. Two-cycle engines in motorcycles are frequently pushed to severe operating conditions and abuse which results in high engine temperatures and dirty operating conditions.

AMSOIL Synthetic 2-Cycle Oils provide maximum protection and performance in two-cycle gasoline engines. AMSOIL Synthetic 2-Cycle Oils control engine operating temperatures, increase power output and keep engines cleaner than petroleum oils. AMSOIL Synthetic 2-Cycle Oils also provide maximum oxidation protection, anticorrosive characteristics and improved operation in low temperatures.

## RESIST THERMAL BREAKDOWN FROM HEAT

AMSOIL Synthetic 2-Cycle Oils resist oil breakdown caused by heat to prevent the formation of varnish and carbon deposits. AMSOIL Synthetic 2-Cycle Oils also control engine temperatures to inhibit power-robbing thermal expansion in hard-driven engines. This protection reduces maintenance costs and helps engines last longer.

## RESIST HIGH-TEMPERATURE DEPOSITS

AMSOIL Synthetic 2-Cycle Oils promote clean burning. They inhibit the formation of varnish, carbon or deposit residues. Spark plug fouling and excessive carbon buildup on piston domes, exhaust ports and valving are virtually eliminated. Rings remain free for excellent compression and combustion.

## REDUCE WEAR THROUGHOUT THE ENGINE

AMSOIL Synthetic 2-Cycle Oils protect pistons and rings from wear caused by metal-to-metal contact under the hottest loaded conditions. The lubricity properties in AMSOIL Synthetic 2-Cycle Oils provide a durable film that reduces friction and protects moving parts against wear.

## REDUCE SMOKE, ODOR AND EMISSIONS

AMSOIL Synthetic 2-Cycle Oils burn clean, minimizing smoke, odor and emissions. The smokeless properties of Saber Professional are ideal for service professionals and homeowners.



AMSOIL 2-Cycle Oil	Snowmobile*, Motorcycle* & ATV*	Moped, Scooter & Go-Cart
INTERCEPTOR (AIT) API TC, JASO FC	Excellent	Good
DOMINATOR (TDR) API TC, JASO FC	Racing (1)	Very Good
Saber Professional 100:1 Pre-Mix (ATP) ISO-L-EGD, JASO FD, API TC	Very Good Pre-Mix Only	Excellent

Equipment manufacturers and motor builders have redesigned two-cycle motors to reduce emissions and increase fuel economy. These changes have increased operating temperatures, reduced oil consumption and incorporated direct fuel injection and exhaust power valves. AMSOIL 2-Cycle Oils are designed to maximize performance in all types of engine designs and are optimized for select applications.

Even though AMSOIL 2-Cycle Oils have been optimized for specific applications, they are multi-functional and recommended for use in many areas. The chart rates each oil's performance abilities per application as follows:

**Excellent:** The primary recommendation for the oil. The oil is specifically designed for the operating conditions of the motors in these markets. There is only one "Excellent" recommendation per category.

**Very Good:** A main recommendation for the oil. Identifies an oil that is very good for the operating conditions of these motors.

**Good:** A secondary recommendation for an oil. The oil was not specifically designed for these applications. However, the chemistry in the oil is suited to the operating conditions of these motors.

\*Recommended for all direct fuel injected (DFI), electronic fuel injected (EFI) and carbureted motors.

**Racing:** (1) Excellent for racing or modified motors. Very good for recreational use.

## AMSOIL MOTORCYCLE OIL WHITE PAPER

AMSOIL has released the most comprehensive study of motorcycle oils ever produced.

See how 26 of the top-selling motorcycle oils compare in the most critical areas of motorcycle oil performance. This no-frills study is designed to help consumers make informed decisions when selecting motorcycle oils. There is no hype, no sales pitch, just facts. Never before has so much information on motorcycle oils been delivered in one easy-to-understand source.



See for yourself how the full range of the most popular motorcycle oils stand up to the hot running, hard pounding, high RPM conditions of motorcycle applications. This complete battery of tests includes wear protection, rust protection, oxidation stability and more ...

### G-2156 MOTORCYCLE OIL STUDY

Stock #	U.S. Price	Can. Price
G-2156	2.00	2.60

# AMSOIL DOMINATOR 2-Cycle Racing Oil

## Reduces Heat, Friction and Wear...

AMSOIL DOMINATOR Synthetic 2-Cycle Racing Oil provides the ultimate protection for the hardest working, hottest running two-cycle engines and is performance proven on the track. When two-cycle engines run hot, pistons expand and the piston to cylinder wall clearance is reduced. This increases friction and the likelihood of piston scuffing, reduced power and ultimately engine seizure. AMSOIL DOMINATOR 2-Cycle Oil reduces friction and thermal runaway. Constructed with AMSOIL heavy synthetic base oils, DOMINATOR handles high heat better than mineral oils and provides improved film strength and lubricity for "on the edge" operation. AMSOIL DOMINATOR 2-Cycle Oil virtually eliminates piston scuffing and ensures peak performance in two-cycle



engines. DOMINATOR provides an extra level of protection in hot, high rpm engines, and it delivers superior anti-friction, anti-scuff properties that maximize power output.

### BURNS CLEAN...

Because two-cycle motors burn oil, it is important the oil burn clean to prevent carbon buildup. Carbon buildup in the ring areas causes ring sticking, and on the spark plug causes plug fouling.

AMSOIL DOMINATOR 2-Cycle Racing Oil is specially formulated to burn clean, ensuring optimal engine performance. AMSOIL's synthetic base oils are combined with specialized detergents to keep two-cycle components clean.

## Power Sports Air Filters

AMSOIL Power Sports Air Filters are used exclusively by racing stars Mike LaRocco and Kevin Windham, offering second-to-none protection and performance in hard driven dirt bikes and ATVs, providing superior efficiency, capacity and air flow. Two layers of oil-wetted polyurethane foam provide a network of interlocking cells that effectively trap and hold wear-causing particles throughout the foam's thickness, while allowing a constant flow of clean intake air. AMSOIL Power Sports Air Filters may be cleaned, re-oiled and reused for miles of trouble-free use. Frequent cleaning and oiling is necessary to achieve peak performance and maximum protection against engine wear.



- **Extended equipment life** • **Superior contaminant-removing efficiency** • **Greater contaminant holding capacity** • **Maximum air flow** • **Improved fuel efficiency** • **Lower exhaust emissions** • **Washable and reusable**

### FOAM AIR FILTER CLEANER

AMSOIL Foam Air Filter Cleaner (FFC) is a specially formulated high quality biodegradable detergent offering quick, efficient and easy cleaning and preservation of AMSOIL Power Sports Air Filters. Its spray application offers maximum convenience, speed of application and even coverage.



### HIGH TACK FOAM FILTER OIL

AMSOIL High Tack Foam Filter Oil (AFO) is a special blend of synthetic polymers that allows maximum air flow and increased particle-removing efficiency and capacity. High Tack Foam Filter Oil stays in place throughout service life, resists washout from carburetor fogging and will not plug foam filter cells, while its red color helps ensure even oil coverage across the entire filter. AMSOIL High Tack Foam Filter Oil is available in its traditional form and a convenient aerosol spray.



# AMSOIL Super Duty Motorcycle Oil Filters



- **Advanced composite filtration media**
- **Offers additional capacity**
- **Offers improved efficiency**
- **Built for rugged performance**
- **Heavy-duty steel case withstands extreme pressure surges and road shocks**
- **High temperature rubber compounds**

AMSOIL Super Duty Motorcycle Oil Filters (SMF) are manufactured to meet the unique demands of today's high stress motorcycle and ATV engines.

For an oil filter to be truly effective, it must offer balance among flow, efficiency and life. Flow is the filter's ability to allow an adequate supply of oil to engine parts, efficiency is the filter's ability to remove wear-causing contaminants from the oil flow and life is the filter's ability to remain in service for a predicted amount of time.

The greatest challenge of oil filters is overcoming the "flow versus efficiency compromise." While flow is best achieved through a filtration media that is open and free, efficiency is best achieved through a filtration media that is closed and difficult to penetrate. Enhancing a filter in one area usually sacrifices performance in the other.

Extensive testing shows a high performance cellulose, synthetic and glass blend media offers the best overall protection and performance. AMSOIL Super Duty Oil Filters are designed to provide the greatest possible balance of flow, efficiency and life, offering the ultimate in overall filtration performance.

Available in spin-on and cartridge types, AMSOIL SMF Oil Filters are designed for extended drain service. When using an AMSOIL SMF Oil Filter with AMSOIL Motor Oil, change the filter and oil at twice the manufacturer's recommendations or one year, whichever comes first. When using an AMSOIL SMF Oil Filter with a conventional motor oil, change the filter and oil according to the manufacturer's recommendations.



# Motorcycle Accessory Products

## SHOCK THERAPY SUSPENSION FLUID

Formulated for fade-free dampening and smooth rebounds in racing and recreational applications. Controls friction and heat, reduces wear, scuffing, frictional energy loss and heat buildup and prevents fade more effectively than conventional suspension fluids. Ideal for both front forks and shocks. Available in two viscosity grades.



## MP METAL PROTECTOR

Disperses water and protects metal surfaces from rust and corrosion. Penetrates existing rust buildup and dries wet electrical systems.

## SERIES 2000 OCTANE BOOST

Maximizes power, reduces engine knock and improves ignition and engine response. Helps fuel burn cleaner and removes carbon deposits.



## HEAVY DUTY METAL PROTECTOR

A heavy-duty spray lubricant fortified with special rust and corrosion inhibitors. It penetrates and adheres to metal surfaces, leaving a long-lasting protective coating. Ideal for motorcycle, bicycle and ATV chains.



## P.I. PERFORMANCE IMPROVER

Dissolves and removes fuel system deposits and other contaminants for improved power and overall performance in gasoline engines. Reduces exhaust emissions.

Improves engine idle, response and starting. Ideal for both fuel-injected and carbureted systems. One quarter ounce treats 2½ gallons.



## GASOLINE STABILIZER

Keeps fuel from deteriorating during storage. Reduces the oxidation process and prevents varnish and gum buildup. Recommended for all motorized vehicles and equipment.



## SERIES 2000 RACING GREASE

Ultimate protection for hard-driven, high-performance motorcycles. Dramatically reduces friction and wear for improved performance.



## POWER FOAM

Improves starting and performance. Cleans dirty intake systems and spark plugs, frees sticky valves. Also removes gum, varnish and carbon deposits from engine exterior surfaces.

## MIRACLE WASH WATERLESS WASH AND POLISH

A unique dry car wash and polish delivers outstanding performance with quick, easy and economical applications. No water required.

Incredibly easy to use: simply apply, use a clean terry cloth towel to spread Miracle Wash and wipe clean with a second terry cloth towel. No scratching, no scraping. It's a miracle.



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

