

# ROYAL PURPLE<sup>®</sup> SYNTHETIC OIL

*Motorcycle Products*



*the  
performance  
oil that  
outperforms<sup>®</sup>*

To locate a dealer near you, visit [royalpurple.com](http://royalpurple.com).

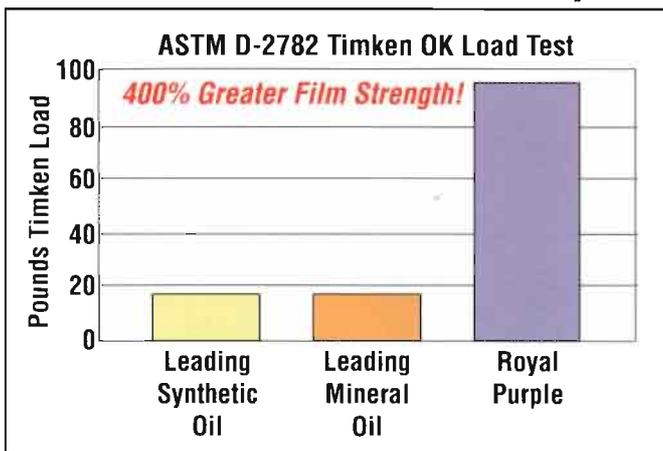
# Why Use Royal Purple?

## Superior Technology

Royal Purple® contains a cutting-edge lubricant additive technology called Synerlec®, which enables its products to significantly outperform conventional synthetic- and mineral-based oils. Synerlec® strengthens the synthetic base oil to provide unmatched performance and protection, and it is the cornerstone of Royal Purple's complete line of motorcycle products.

## Reduces Friction

The inability to separate metal parts results in friction, which reduces the efficiency at which parts operate. This diminishes the overall performance of the equipment. Thanks to Synerlec®, Royal Purple's oils are up to 400 percent stronger than other lubricants, enabling them to drastically reduce friction by completely separating metal components.



## Beyond Synthetic™

Royal Purple® micro-polishes microscopic asperities to further reduce friction and increase the performance of equipment far

beyond original expectations. Take a look at the following photos:

A new bearing surface appears smooth until magnified 1500X.



The same surface has been galled after a conventional lubricant was used.



The bearing surface after being "micro-polished" by Royal Purple®. Notice the surface is smoother than original condition.



## The Performance Oil that Outperforms®

Royal Purple's ability to drastically reduce friction creates dyno-proven horsepower increases. Performance gains will vary depending on the type of your equipment, the condition of your equipment and the way your equipment is operated. Additionally, Royal Purple® not only provides superior performance but outstanding protection as well. It constantly adheres to metal surfaces — even after shutdown — to provide instant protection at start-up and reduced engine wear.

Royal Purple® offers a complete line of automotive lubricants. The automotive line includes lubricants that will help you get maximum performance out of your tow vehicle. For more information, visit [royalpurple.com](http://royalpurple.com) for details.

**Synerlec® additive technology makes the difference!**

# Introducing . . . Max-Cycle™

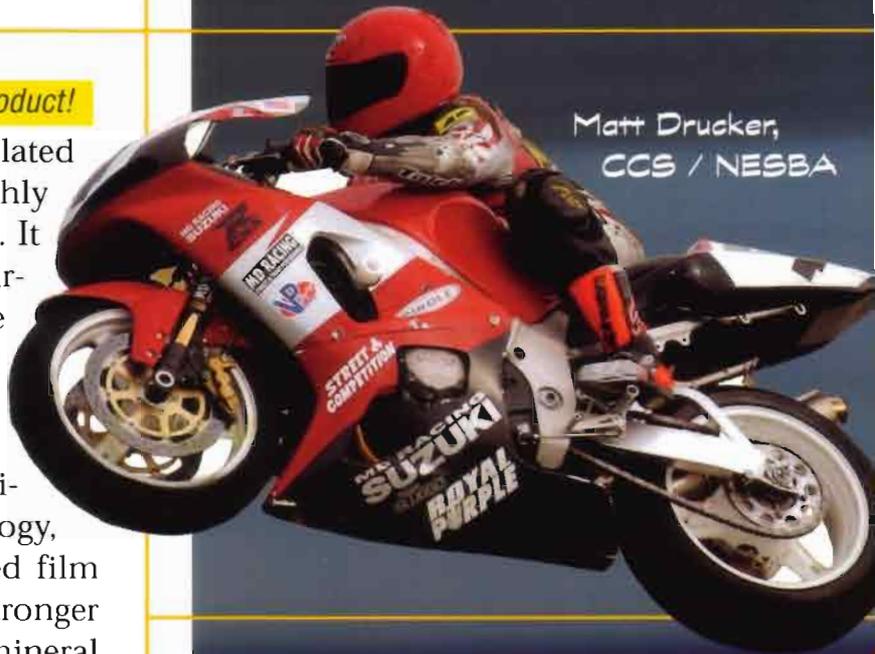
## Max-Cycle™ Engine Oil *New Product!*

Max-Cycle™ is specifically formulated to exceed the demands of highly stressed engines and transmissions. It is recommended for use in both air-cooled and liquid-cooled 4-cycle engines and is compatible with wet-clutch transmissions.

Formulated with select synthetic base oils and Royal Purple's proprietary Synerlec® additive technology, Max-Cycle™ provides an unparalleled film strength that is up to 400 percent stronger than the leading synthetic and mineral oil. Its shear stability and oxidation resistance promote greater performance and protection.

Synerlec® greatly reduces engine wear — including ring, cylinder and bearing wear — and continuously adheres to metal surfaces — even after shutdown — to provide instant protection at startup until a full fluid film can be established.

Max-Cycle™ exceeds API / JASO new warranty requirements and is compatible with other mineral and synthetic motor oils. No flushing is necessary prior to use.



Matt Drucker,  
CCS / NESBA

“Royal Purple provides the most horsepower in our racing engines while providing unparalleled protection. We haven't had the problems with bucket, wrist pin or piston scuffing that we had with the other engine oils.”

— Greg Cope, Cope Racing Engines  
Engine Builder for Karen Stoffer/ Jonco  
Motorsports NHRA Pro Stock Suzuki

**MAX-CYCLE™ is available in 10W30, 10W40 and 20W50**  
**Meets API / JASO new warranty requirements!**

# High Performance Motorcycle Lubricants

## 2-Cycle TCW III Engine Oil

2-Cycle TCW III is a high film strength lubricant recommended for use in both pre-mix and oil injected gasoline 2-cycle engines. It provides excellent anti-wear performance, and its low ash formulation burns clean for maximum engine efficiency. 2-cycle TCW III is an excellent choice for applications operating above 32°F, including outboard motors, motorcycles, jet skis, chain saws, PWCs, scooters and lawn equipment. Contains Synerlec®.

## 2-Cycle TCW III Racing Engine Oil

2-Cycle TCW III Racing is a low ash, high performance 2-cycle gasoline engine oil that reduces wear and improves performance. It burns extremely clean to keep exhaust ports and spark plugs clean for maximum efficiency. Follow manufacturer's recommendations for oil / fuel ratio. Contains Synerlec®.

## Synchromax® Manual Transmission Fluid

Synchromax® is a high film strength transmission fluid that has exceptional load carrying capabilities for reduced "notching" of the clutch hub and basket for consistent operation and longer life. Its low viscosity reduces parasitic power loss while providing outstanding anti-wear per-

formance. A top choice for 2-cycle Supercross, Motocross and Enduro racing transmissions. Contains Synerlec®.

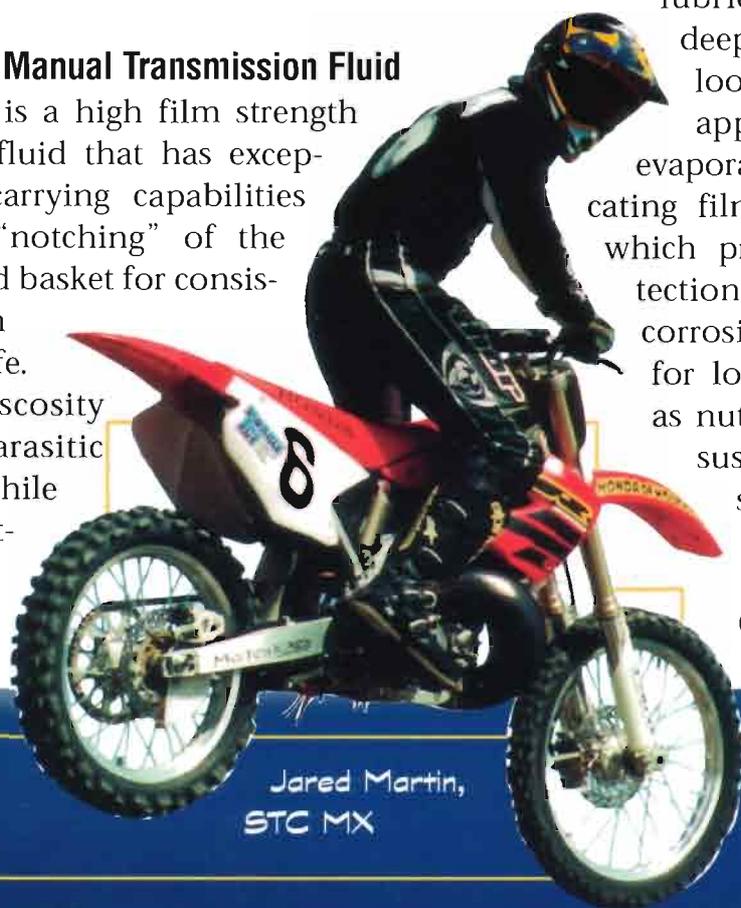
## Max-Chain® Chain Lubricant

Max-Chain® is an advanced, high performance lubricant that provides excellent protection to chains, to open gears and to exposed metal surfaces subjected to severe conditions — including wet or dusty environments. Applied by spraying, it leaves a non-tacky, wax-like film for optimum protection against abrasive dust, rust and corrosion to greatly reduce wear and extend equipment life.

*Note: Do not apply to open flames or hot surfaces. Consult manufacturer for high temperature applications.*

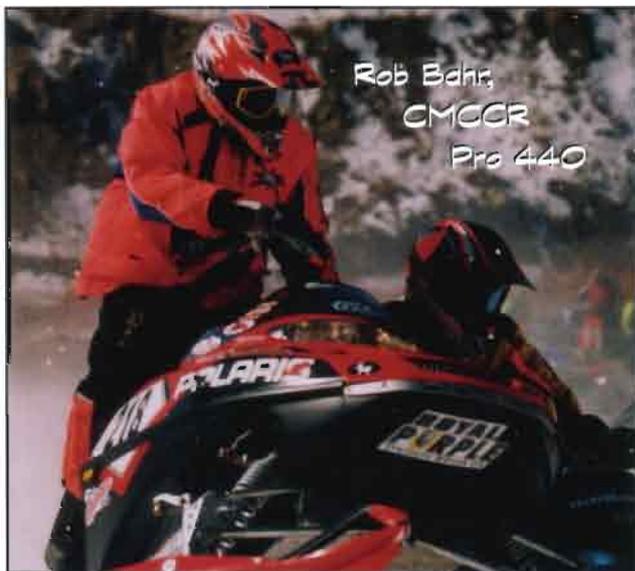
## Maxfilm® Penetrating Lubricant

Maxfilm® is a multi-purpose synthetic lubricant / penetrant that deeply penetrates, cleans, and loosens rusted parts. Once applied, its solvent carrier evaporates leaving a tough lubricating film on all metal surfaces, which provides long-lasting protection against wear, rust and corrosion. It is recommended for loosening stuck parts such as nuts and hinges; lubricating suspension linkage, cables, spokes, power tools, etc.; and preserving and protecting parts in storage. Contains Synerlec®.



Jared Martin,  
STC MX

# More High Performance Lubricants



## **Snow 2-C™** Snowmobile Engine Oil

Snow 2-C™ is a high performance engine oil that reduces wear and improves performance in both standard and high performance 2-cycle gasoline engines. It is ideally suited for cold weather service due to its low temperature fluidity and pumpability (-65°F pour point) and its ability to protect in the most severe conditions. Its low ash formulation minimizes deposits, and its synthetic solvency maintains engine cleanliness for maximum efficiency. Contains Synerlec®.



## **Exclusive Performance Advantages:**

**Greater Wear Protection**

**Greatly Extends Oil Drain Intervals**

**Increases Horsepower**

**Increases Torque**

**Superior Rust & Corrosion Protection**

**Saves Fuel**

**Reduces Exhaust Emissions**

**Keeps Engines Clean**

**Mates Engine Parts**

**Will Not Harm Seals**

**API / JASO Warranty Approved**

**Environmentally Responsible**

**For a complete listing of Royal Purple's high performance lubricants, visit [royalpurple.com](http://royalpurple.com).**

# Product Recommendations

This is a general outline. Always follow manufacturer's recommendations for oil viscosities or contact Royal Purple's Automotive Technical Support Dept. at 888-382-6300.

## 4-Cycle Street

### Liquid Cooled - Japanese

Engine	Max-Cycle™ 10W30 Max-Cycle™ 10W40
Final Drive - Chain	Max-Chain®

### Liquid Cooled - European

Engine	Max-Cycle™ 10W30 Max-Cycle™ 10W40
Final Drive - Chain	Max-Chain®

### Air / Oil Cooled Metric

Engine	Max-Cycle™ 20W50
Final Drive - Chain	Max-Chain®

### Air / Oil Cooled Domestic

Buell	
Engine	Max-Cycle™ 20W50
Transmission	Max-Cycle™ 10W30
H/D Sportster	
Engine	Max-Cycle™ 20W50
H/D Evo / TwinCam	
Engine	Max-Cycle™ 20W50
Transmission	Max-Cycle™ 20W50
Primary	Max-Cycle™ 10W30

## Off-Road / Dual Sport 2-Cycle & 4-Cycle

### 4-Cycle

Engine	Max-Cycle™ 10W30 Max-Cycle™ 10W40
Transmission	
- Separate Reservoir	Synchromax®

### 2-Cycle

Engine	2-C TCW III Racing
Transmission	Synchromax®
Chain Drive	Max-Chain®

## Off-Road ATV 2-Cycle & 4-Cycle

### 4-Cycle

Engine	Max-Cycle™ 10W30 Max-Cycle™ 10W40
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Transmission	
- Separate Reservoir	Synchromax®

### 2-Cycle

Pre-mix*	2-C TCW III Racing
Oil-injection	2-C TCW III
Transmission	Synchromax®
Chain Drive	Max-Chain®
Shaft Drive	Synchromax®

## Personal Water Craft

### 4-Cycle

Engine	Max-Cycle™ 10W30 Max-Cycle™ 10W40
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### 2-Cycle

Engine	
Pre-Mix*	2-C TCW III Racing
Oil-Injection	2-C TCW III
Transmission	Synchromax®
Chain Drive	Max-Chain®
Shaft Drive	Synchromax®

## 2-Cycle Snowmobile Engine

Pre-mix*	2-C TCW III Racing
Oil-injection	Snow 2-C™

## General Maintenance

Cables (clutch, brake)	Maxfilm®
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**\*Note: Follow manufacturer's recommendation for fuel / oil ratio in pre-mix engines.**

## Frequently Asked Questions

### **Will Royal Purple® cause my clutch to slip?**

No. Royal Purple® provides exceptional film strength for excellent metal-to-metal protection and is safe for use in wet-clutch applications.

### **How often do I change Royal Purple®?**

While under factory warranty Royal Purple® recommends following the manufacturer's recommended maintenance intervals. In bikes with clean engines in sound operating condition, Royal Purple® may be used up to 8,000 miles with a filter change every 3,000 to 4,000 miles (top-off as needed). In motorcycles with high mileage or dirty engines, allow two to three standard 3,000 mile oil and filter change intervals to give ample time for Royal Purple® to gradually remove existing deposits / contaminants without overloading the system (pump, pick-up, filter, etc.). Once these precautionary intervals have been performed, drain intervals may be extended as recommended for clean engines.

### **What viscosity do you recommend for motorcycles?**

Follow the manufacturer's recommendations regarding viscosity. Most manufacturers recommend a 10W40 for 4-cycle, liquid-cooled motorcycles. Air / oil cooled motorcycles typically specify a 20W50. Check your owner's manual or contact Royal Purple's Automotive Technical Support Dept. at 888-382-6300.

Where Can  
I Buy  
Royal Purple®?

Royal Purple® is available  
at high performance  
specialty shops.

To locate a dealer near you,  
visit [www.royalpurple.com](http://www.royalpurple.com).

For the complete list of FAQs, visit [royalpurple.com](http://royalpurple.com).



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