

**Select from the CamGuard
family of quality products
for specific applications**



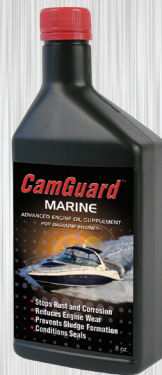
Aviation



HD/Diesel



Automotive



Marine



Small Engine



Rev 9/17/15

CamGuard™

AUTOMOTIVE

ADVANCED ENGINE OIL SUPPLEMENT



- **Reduces Engine Wear**
- **Increases Fuel Economy**
- **Stops Rust and Corrosion**
- **Prevents Varnish Deposits**
- **Conditions Seals**

CamGuard Automotive is a blend of high performance additives that fortify modern engine oils to provide the utmost in engine protection. Modern commercial engine oil formulations are at best a compromise due to government regulations and costs. These constraints lead to reduced additive concentrations and subsequently reduced performance.

CamGuard Automotive delivers uncompromised performance using the most advanced additive technology available to dramatically reduce friction and wear, decrease deposit formation and prevent corrosion when used in today's commercial automotive oils.

CamGuard Automotive contains advanced antiwear additives that provide a dramatic reduction in wear when compared to current ZDDP (zinc) containing oils. This improvement in wear performance is especially important in older engine designs, using flat tappet valve trains, when using today's mandated low zinc oils. An additional benefit of reduced wear is less iron in the oil, which promotes oxidation and deposit formation.

CamGuard Automotive utilizes the latest generation of friction modifiers that provide a measurable increase in fuel economy throughout the oil change interval.

CamGuard Automotive contains powerful multi-metal corrosion inhibitors that prevent rust and corrosion in seasonally or infrequently used engines.

CamGuard Automotive utilizes advanced antioxidants to prevent cylinder varnish and ring belt deposits. This is particularly important in the hot running environment of today's higher output engines.

CamGuard Automotive provides enhanced protection in the face of high levels of NOx and fuel dilution. It is excellent for Direct Injection (DI) engines, which are hard on lubricants.

CamGuard Automotive contains seal conditioners that nullify the effects of heat and time to keep seals supple, flexible, and performing like new.

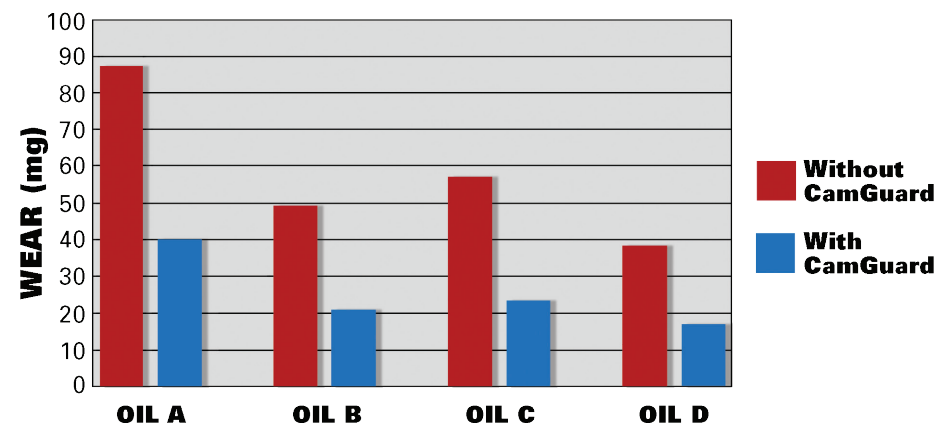
CamGuard Automotive is safe for use in all passenger car gasoline engines and will not affect modern emission systems.



Manufactured by Aircraft Specialties Lubricants

aslcamguard.com

Reduced Wear with CamGuard Automotive



We tested four of the top selling oils, two conventional and two synthetic, utilizing a FALEX PIN and Vee-block tribometer at an independent analytical laboratory. The Phillips Petroleum designed procedure used is a derivative of ASTM D-2670 and is described in the Scientific Journal "WEAR". The procedure correlates very well with camshaft wear in engines using gasoline and diesel engine oils. The often-cited 4-Ball wear test does not correlate to engine wear.

In the graph above, the red bars show the wear for each of the untreated oils. The blue bars are the corresponding oils with addition of 5% CamGuard Automotive and reflect the remarkable reduction in wear and demonstrate a true advancement in anti-wear technology when compared to the standard "zinc" anti-wear chemistry.



The CamGuard Story begins with **CamGuard Aviation which was developed as an ultra-high performance aviation product.**

The two photos at the left are pistons out of Lycoming IO-540 aircraft engines. The top piston is from our FAA certification engine using CamGuard for 500 hours. The certification test was in an aerobatic aircraft that utilized very high power settings resulting in extremely high temperatures.

The bottom piston was taken from a normal use engine, without CamGuard, for 500 hours. The difference in deposits is striking.

CamGuard is the *only* lubricant product to undergo certification testing in the extremes of aerobatic use.