

**Select the CamGuard product designed for your application**



Aviation

Automotive

Marine

Small Engine



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**ASL**  
**CamGuard™**

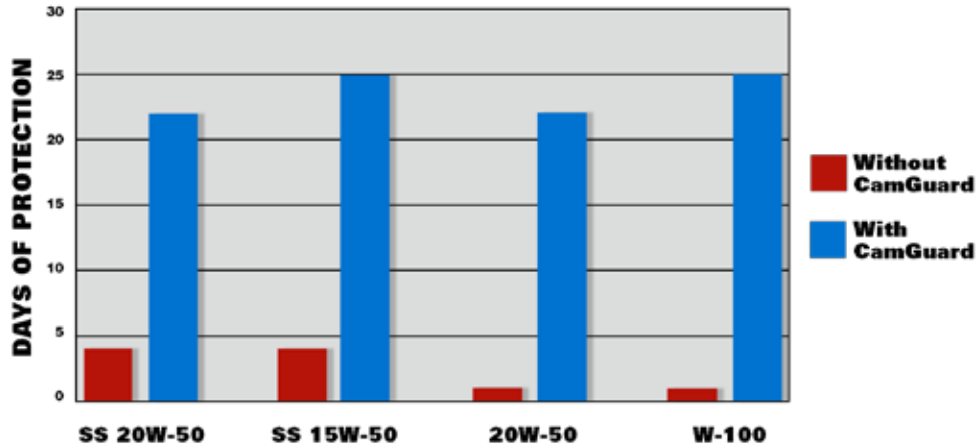
ADVANCED OIL SUPPLEMENT

FAA ACCEPTED



- Fights Rust & Corrosion
- Reduces Cam & Lifter Wear
- Inhibits Engine Deposits
- Conditions Engine Seals

## Increased Corrosion Protection with CamGuard Aviation



Four of the top selling piston aircraft oils were tested for corrosion resistance with and without the addition of CamGuard Aviation. The testing was performed at an independent laboratory utilizing the DIN 50017 humidity cabinet test. The DIN 50017 method demonstrates excellent field correlation, unlike the often used ASTM 1748 humidity cabinet test.

The graph indicates the average number of days until failure, which is defined as the observation of three 1mm spots of rust on the steel test panels. The red bars indicate time to failure for the untreated oils while the blue bars represent the corresponding oils with the addition of 5% CamGuard Aviation. All the oils show a remarkable improvement with the addition of CamGuard Aviation.



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 conducted in an aerobatic aircraft that utilized very high power settings, which resulted in extremely high cylinder head and oil temperatures. The bottom piston is taken from a normal use engine run for 500 hours without CamGuard. The difference in deposits is striking. CamGuard is the first lubricant product to undergo certification testing in the extremes of aerobatic use. All CamGuard products share the same unique deposit control chemistry.



**CamGuard Aviation** is a blend of high performance additives that fortify piston aircraft oils to provide the utmost in engine protection. Because of FAA regulations and costs, even the newest commercial aircraft oil technology is antiquated.

**CamGuard Aviation** addresses the complex interrelated problems of corrosion, deposits and wear in air-cooled piston aircraft engines. Infrequent engine use leads to pitting corrosion on cam and lifter surfaces. This pitting causes rapid cam and lifter wear, or worse, catastrophic spalling.

Current oil technology allows the buildup of deposits that leads to accelerated cylinder and ring wear resulting in decreased compressions and increased maintenance.

**CamGuard Aviation** contains powerful multi-metal corrosion inhibitors that prevent rust and corrosion in infrequently used engines.

**CamGuard Aviation** contains advanced anti-wear additives to dramatically reduce the wear of cams, lifters, cylinders, rings, gears and valve guides.

**CamGuard Aviation** provides excellent anti wear (anti-scuff) protection, during "dry" starts after periods of prolonged inactivity, by maintaining a residual active film on critical parts.

**CamGuard Aviation** utilizes unique ashless deposit control additives that prevent the formation of deposits throughout the engine. In older engines the lack of new deposit formation allows component motions to free up deposit laden sticky parts.

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

