



Victory® Aviation Oil 100AW

Phillips 66® Victory Aviation Oil 100AW is an ashless dispersant, single-grade engine oil pre-blended with the proper concentration of antiscuff/antiwear additive (LW-16702) as mandated by Lycoming Service Bulletins 446E and 471B and Service Instruction 1409C. It is recommended for use in opposed piston and radial piston aircraft engines where cam lifter wear is a concern.

The ashless dispersant formulation helps minimize the formation of engine sludge, varnish, piston deposits and combustion chamber deposits, resulting in a much cleaner engine compared with the use of straight (nondispersant) mineral oils. This oil has a high viscosity index and low pour point compared with many other single-grade aircraft engine oils, allowing its use over a wide temperature range.

Victory Aviation Oil 100AW is FAA approved as an alternate method of compliance to AD80-04-03 R2, paragraph b.1.

Applications

- Opposed piston aircraft engines, especially where cam lifter wear is a concern

Victory Aviation Oil 100AW meets the requirements of:

- Avco Lycoming Material Specification No. 301G
- Pratt & Whitney Service Bulletin No. 1183 Rev. U
- SAE Standard J1899
- Teledyne Continental Material Specification MHS-24B
- U.S. Military Specification MIL-L-22851D (obsolete) for additive treatment

QPL Approval Number: D07L2-50

Features/Benefits

- Ashless dispersant helps minimize engine sludge and varnish deposits for a cleaner engine
- Pre-blended with Lycoming-approved antiwear additive
- High film strength for protection against wear and piston scuffing
- High viscosity index and low pour point for use over a wide temperature range
- Protects against rust and corrosion
- Formulated with the same high-quality base oils as used in Phillips 66 X/C® Aviation Oil

**Ashless
Dispersant,
Single-Grade
Engine Oil With
Antiwear Additive
For Aircraft
Piston Engines**

CONTACT INFORMATION

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Victory® Aviation Oil 100AW

Typical Properties

Grade	100AW
SAE Grade	50
Gravity, °API	27.0
Specific Gravity @ 60°F	0.893
Density, lbs/gal @ 60°F	7.44
Color, ASTM D1500	3.0
Flash Point (COC), °C (°F)	255 (491)
Pour Point, °C (°F)	-27 (-17)
Viscosity, Kinematic	
cSt @ 40°C	189
cSt @ 100°C	19.5
Viscosity Index	118
Acid Number, ASTM D664, mg KOH/g	0.04
Ash Content, SAE J1787, wt %	Nil
Copper Corrosion, ASTM D130	Pass
Foam Test, ASTM D892	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.