



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) 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**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Victory® Aviation Oil 100AW

Typical Properties	
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 %	0.04
Copper Corrosion, ASTM D130	Pass
Foam Test, ASTM D892	Pass

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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