



Type A Aviation Oil

Phillips 66® Type A Aviation Oil is an ashless dispersant, single-grade engine oil specially formulated for use in aircraft piston engines. 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 (non-dispersant) mineral oils.

Type A Aviation Oil has many years of outstanding field performance in a wide variety of aviation applications. It is available in two grades, 100AD (SAE 50) and 120AD (SAE 60). Both grades are FAA approved.

Applications

- Opposed piston aircraft engines that require an SAE 50 or Commercial Grade 100 engine oil (Type A 100AD)
- Radial piston aircraft engines that require an SAE 60 or Commercial Grade 120 engine oil (Type A 120AD)

Type A Aviation Oil 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 Numbers: D07L1-50 (Type A 100AD), D07L1-60 (Type A 120AD)

Features/Benefits

- Ashless dispersant helps minimize engine sludge and varnish deposits for a cleaner engine
- High film strength for protection against wear and piston scuffing
- 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 for
Aircraft Piston
Engines**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



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Typical Properties		
Grade	100AD	120AD
SAE Grade	50	60
Gravity, °API	28.5	0.887
Specific Gravity @ 60°F	0.884	7.39
Density, lbs/gal @ 60°F	7.36	4.0
Color, ASTM D1500	3.5	4.0
Flash Point (COC), °C (°F)	256 (493)	266 (511)
Pour Point, °C (°F)	-27 (-17)	-27 (-17)
Viscosity, Kinematic		
cSt @ 40°C	204	257
cSt @ 100°C	20.2	23.4
Viscosity Index	115	113
Acid Number, ASTM D664, mg KOH/g	0.15	0.15
Ash Content, SAE J1787, wt %	Nil	Nil
Copper Corrosion, ASTM D130	Pass	Pass
Foam Test, ASTM D892	Pass	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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