



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. This results in a much cleaner engine compared to the use of straight 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, Type A 100AD (SAE 50) and Type A 120AD (SAE 60). Both grades are FAA approved.

Applications

Type A Aviation Oil meets the requirements of:

- Avco Lycoming Material Specification No. 301G
- Pratt & Whitney Bulletin No. 1183 "U"
- SAE Standard J1899
- Teledyne Continental Material Specification MHS-24B
- U.S. military specification MIL-L-22851D for additive treatments

Type A Aviation Oil 100AD is recommended for use in opposed piston engines.

Type A Aviation Oil 120AD is recommended for use in radial piston engines.

QPL Approval Numbers: D07L1-50 and D07L1-60

Features/Benefits

- Ashless dispersant helps minimize engine sludge and varnish deposits for cleaner engine
- High-film strength for protection against wear and piston scuffing
- Protects against rust and corrosion
- Same high-quality base oils as used in Phillips 66 X/C® Aviation Oils

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

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**Technical Support:
1-800-766-0050**

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Typical Properties

Grade	100AD	120AD
SAE Grade	50	60
Gravity °API	28.5	28.1
Density, g/cm ³ @ 15.6°C (60°F)	0.884	0.887
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,		
cSt @ 40°C	204	257
cSt @ 100°C	20.2	23.4
Viscosity Index	116	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 and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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