

TECHtimes TECH TIP

Engine Preservation

All Aircraft Reciprocating Engines

By John Morton, Aero Recip (Canada) Ltd

TIME OF COMPLIANCE: Any time an engine is expected to sit idle for extended periods

Approved inhibiting oil

A "Flyaway" Inhibiting Oil is recommended to be used for aircraft engines expected to sit idle for extended periods. Any MIL-C-6529C Type II "flyaway" oil is approved for use. For example, Phillips 66 Antirust oil SAE 20W50 is an approved inhibiting oil. Operational hours should not exceed 10 hours total.



Phillips 66 Antirust Oil SAE 20 W-50

Recommended inhibiting procedure by Aero Recip (Canada) Ltd.

At the end of the flying season or any time the aircraft is to sit idle for extended periods, drain all existing oil from the oil tank and engine oil sumps. Service all oil screens and filters. Install new Antirust Oil to the proper level.

If the aircraft has sat for some time, carry out the normal pre-oil and then go flying. The aircraft should be flown for at least sixty (60) minutes at normal operating temperatures or if desired for the next couple of flights. Further recommended preservation instructions can be found in the Pratt & Whitney Maintenance Manual, Continental Service Bulletin M99-1, or Lycoming Service Letter L180B.



Phillips by the drum

Before aircraft is released to service

Before returning the aircraft to service, it is advisable to carry out the proper pre-oiling procedure before starting the engine. This is necessary to force all air from the internal oil passages and to ensure proper lubrication of all bearing surfaces and other moving parts. The aircraft may be flown with the inhibiting oil for one or two flights but then the oil must be drained and replenished with Phillips 66 X/C Aviation Oil or any approved engine oil. ✈

TECHBITE

Read the latest **TechBite** courtesy of our customers and employees:

“Quite simple we live up north compare to the USA ... we have to be very careful regarding cold start and follow the engine shop recommendations... This is the key to keep the engine healthy. Also using oil Additive is a must considering Canada operation and weather conditions.”

- Courtesy of Guy Blais,
Aero Atelier - QUE

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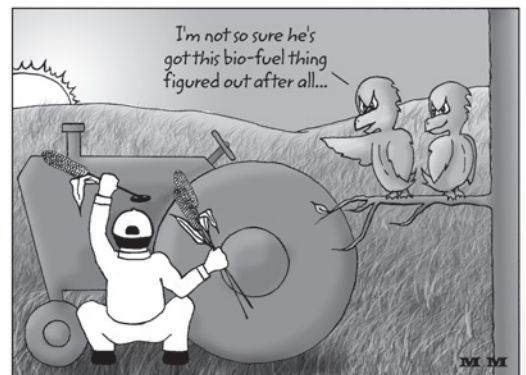


Phillips 66 Antirust Oil SAE 20 W-50

is available in:

- ✓ 55 US gallon drums,
- ✓ 5 gallon pails, and
- ✓ 2.5 gallon pails

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