

Viscosity - Mineral Based AD Oil

g operating conditions and / or availability may warrant the use of viscosity oils. Most important to RAM is that the oil be mineral based. recommends a multi-viscosity ashless dispersant mineral based oil s Phillips 66 XC 20W-50. [RAM service history records indicate mineral Based AD oils perform significantly better than synthetic and synthetic oils.]

at is recommended when engine starting temperatures are below 40°

that equipment can be purchased through numerous aviation supply ies, as well as through RAM's Parts Catalog.

Filter Change

comments changing the oil and filter every 50 hours or 4 months er occurs first. More frequent oil changes are encouraged.

Major reasons for frequent oil changes are:

1) Flush out metal particles. (2) Flush out acid contamination.

Oil Changes

out metal particles coming and Continental Motors (CM) engines include parts that

proven history of normal wear that deposits normal wear particles of to the oil. Oil filters contribute significantly to capturing these wear s, but not as effectively as frequently changing the oil.

out acid contamination

air-cycle gasoline engines it is an unavoidable fact that acids collect il. Acids are formed when combustion by- products and unburned e. They cause rust as well as pitting of lifter faces. Acids are not d by oil filters or by changing filters. The only way to remove acids move the oil that has become acid contaminated.

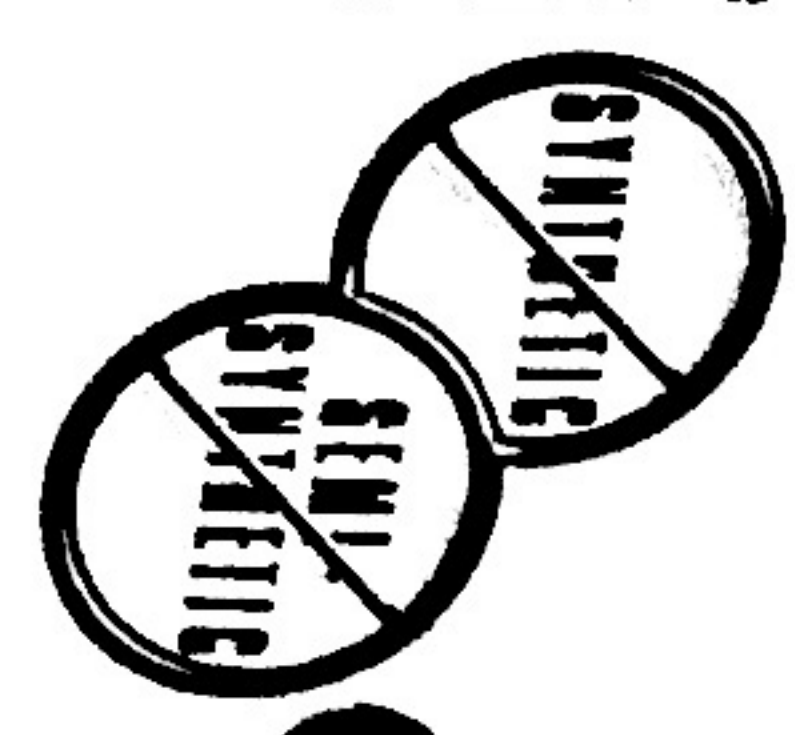
Viscosity

made are well taken on both sides of the issue of whether to use r multi grade oils. In the final analysis, you know that your aircraft is d to extreme temperature variations and starting conditions. Many fly frequently. Many aircraft don't fly enough. Successes and lack sses, suggests there is simply not one viscosity that is always the all flight environments. In general RAM sees the following:

- Multi-Viscosity Mineral Based (AD) oil performs well in high usage airplanes.
- Single Viscosity Mineral Based (AD) oil performs well in high or low usage airplanes.

Viscosity & Semi-synthetic vs. Mineral Based Oil

service history records are much less favorable nes that have a history of being operated on c blends or semi-synthetic oil products. RAM ges using Mineral Based (AD) Oils only, single -viscosity as conditions require.



HARTZELL

PROPELLER LOGBOOK

PROPELLER MODEL PHC-53YF-1RF/F 7693F+2

PROPELLER S/N FP8906B

LOGBOOK # _____

PROPELLER MAINTENANCE RECORD

PITCH RANGE

HARTZELL PROPELLER INC

INSPECTION

Item Number: J3F09050

Date: 8/28/2016

Work Order #: M661930

Model Number PHC-J3YF-1RF/F7693F+2					Date: 8/28/2016					Work Order #: M661930				
Ass'y Ser No. FP8906B			Hydr Unit No. NA		Bulkhead No. NA			Valve No. NA						
Blade 1: L72962		Blade 2: L72963		Blade 3: L72964		Blade 4:		Blade 5:		Blade 6:				
Clamp 1:		Clamp 2:		Clamp 3:		Clamp 4:		Clamp 5:						
Reverse NA	Start Lock NA	Low Pitch 14.0	High Pitch 31.0	Feather NA										
Ref Radius (inches) for angles:					30									
Comments: Deice Kit: NA														
Packing Certified By: <i>Tim Jess</i>					Date: 8-30-16									
Inspected By: Tim Jess														

Position	Orient.	Qty:Al	St	Scrw	A-2424-1	Washer
1	T	1	0	0	0	2
3	L	0	0	0	0	2

The approved design data for this propeller incorporates all changes required by applicable Airworthiness Directives.

The propeller covered by this certificate is:

The approved design data for this propeller incorporates all changes required by applicable Airworthiness Directives.

Spinner Assembly has passed a functional test as required by 14 CFR Part 21.137(e)(2).

Late Aircraft Repair LLC

Date

9/1/2017 Tach 4191.82 N13KS T210L Hartzell PHC-J3YF-1RF/F7693 SN FP8906B

Install propeller SN FP8906B on N13KS SN 2106020 IAW STC SA10615SC-D and Hartzell manual 115N.
Propeller dynamically balanced to .08 IPS @ 2300 RPM.

I certify that this Propeller has been inspected in accordance with a 100/annual inspection and is found to be in an Airworthy condition at this time.

Kevin Late AP3112349IA

Kevin Late

Late Aircraft Repair

8/6/2018 Tach 4253.03 TSNEW 61.21 N13KS Hartzell PHC-J3YF-1RF SN FP8906B

Lube hub using Aeroshell 6 grease. Dress blades as needed.

I certify that this Propeller has been inspected in accordance with a 100hr/Annual inspection and is found to be in an Airworthy condition at this time.

Kevin Late AP3112349IA

Kevin Late

07/05/2022	4401.03 Tach 209.21 PTT Removed propeller from N13KS, Cessna T210L, S/N 21060202, due to leading edge damage to blades. Mark McLean APP 501904860
29 JUL 2022	29 JUL 2022
<p>MAINTENANCE PERFORMED AMO # 105-99</p> <p>PROPELLER REPAIRED Under Work Order Number <u>12828</u></p> <p>The performed maintenance, as duly noted above, has been carried out in accordance with applicable airworthiness requirements as described on the maintenance release.</p> <p>PROPWORKS PROPELLER SYSTEMS INC.</p> <p>A.M.O. # 105-99 (WINNIPEG, MANITOBA)</p> <p><i>[Signature]</i> MICHAEL RUDEC</p> <p>STAMP</p>	

HARTZELL PROPELLER INC.

One Propeller Place

Piqua, Ohio 45356-2634 U.S.A.

Telephone: 937.778.4200

Telex: 4332032

Fax: 937.778.4391