



SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service
Washington, DC

U.S. Department
of Transportation

**Federal Aviation
Administration**

NE-05-33
February 16, 2005

www.faa.gov/certification/aircraft

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin alerts all owners and operators of **any McCauley propeller models**, that Brothers Aero Services Company (BASCO), Air Agency Number B4TR903J, located in Opa-Locka, Florida, performed improper overhauls and maintenance. Our investigation shows the affected propellers may be installed on, but not limited to, the following Cessna airplanes:

Cessna Models			
310P	320F	401	414A
310Q	335	401A	421B
310R	340	401B	T310P
320D	340A	414	T310Q

Background

The FAA has revoked BASCO's Air Agency Certificate because of improper overhauls and maintenance on Hartzell model propellers. We have disassembled and inspected more BASCO overhauled propellers including McCauley model propellers. We found improper rework, cracks, and corrosion in these propellers. These conditions can propagate to fatigue cracks, then component failure (i.e. blade or pitch change component failure), and possible loss of control of the airplane. In the past, one blade failure occurred on a Hartzell model propeller that BASCO overhauled. So far, we have received two inspection reports on McCauley

propellers. The reports described defective McCauley propeller assemblies.

Based on previous investigative results and this new information, the likelihood that BASCO improperly repaired or overhauled other McCauley model propeller assemblies and returned them to service with potentially unsafe conditions is high. Please note that, so far, there are no known failures of any BASCO overhauled McCauley Propeller models.

Recommendation

We recommend that if BASCO serviced any of your McCauley model propellers, **you should have another FAA approved propeller repair station re-inspect or overhaul those propellers again.** Please send the results of these inspections or overhauls, whether favorable or not, to us at the address below. We might use the results to affect a future Airworthiness Directive action that is under consideration. See the attached list of all known McCauley propeller Model and Serial Numbers that BASCO repaired or overhauled.

For Further Information Contact

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McCauley Propeller and Serial Number Summary

Note: This list may not be complete

Model	S/N	Model	S/N	Model	S/N
3AF32C8TNR	745552	3AF32C87NR	752252	3AF32C87NR	766585
3AF32C505	931962	3AF32C505-C	881961	3AF32C504	813783
3AF32C93NR	674751	D3A32C404B	851108	3AF32C504C	940409
2A34C203	768999	3AF32C87-N	776724	3AF32C93-NR	737569
3AF32C93NR	754925	3AF32C505C	891265	3AF32C505-C	941197
3AF32C93R	450130	3AF32C93NR	783516	3AF32C87N	799836
2A34C203-B	880318	3AF32C505	950616	3AF32C87N	716260
3AF32C93-NR	752144	3AF32C87NR	815398	3AF32C505-C	970180
3AF32C505	818688	3AF32C505	811110	3AF32C504	815798
3DF32C87NR	764992	3AF32C505	810807	3AF32C87-N2R	792878
3AF32C504/C	910240	3AF32C93NR	804708	3AF32C93-R	971020
3AF32C505	931961	3AF32C93NR	785846	D2AF34C61-EMO	681079
3AF34C92-P	737326	3AF32C505	805724	3AF32C93-R	970120
3AF34C92-BNP	672285	3AF32C505	811227	3AF32C504	860700
3AF32C504	860700	3AF32C93NR	767569	3AF32C93NR	800834
3AF32C93N	794865	3AF32C93NR	785846	3AF32C505	811286
3AF32C505G	931962	3AF32C505	805724	3AF32C505B	931462
3AF32C87/NR	802661	3AF32C505	811227	D3A34C404	797884
3AF32C87NR	7910272	3AF32C93NR	762569	3AF32C93NR	763782
3AF32C505	871353	3AF32C87-N	800863	3AF32C87NR	756254
3AF32C87NR	783516	3AF32C93N	798117	3AF32C93NR	769470
3AF32C505	813661	3AF32C505C	941070	3AF32C504C	910240
3AF32C93NR	7710075	3AF32C505C	970109	3AF32C93	870413
3AF32C505	860730	3AF32C505-C	931953	3AF32C87NR	794725
3AF32C87NR	764992	3AF32C93-NR	798898	3AF32C505G	940468
3AF32C87NR	774756	3AF32C505-C	940456	3AF32C87N	728366
3AF32C93NR	798898	3AF32C87NR	780353	3AF32C87NR	764992
3AF32C87NR	795931	3AF32C87NR	690486		
3AF32C93NR	911182	3AF32C505	805176		