

SAIB ACE-99-35 SPECIAL AIRWORTHINESS INFORMATION BULLETIN
REGULATORY SUPPORT DIVISION
P.O. BOX 26460
OKLAHOMA CITY, OKLAHOMA 73125-0460

U.S. Department
of Transportation
Federal Aviation
Administration
No. ACE-99-35
September 15, 1999

SAIB's are posted on the internet at <http://av-info.faa.gov>
This is issued for informational purposes only and any recommendation for
corrective action is not mandatory.

Introduction:

A recent propeller repair station audit has revealed that certain blade face alignment, chordwise and thickness inspections were not properly accomplished in accordance with the manufacturer's propeller overhaul manual procedures. This discovery has prompted an investigation to gather data so that it can be determined whether an airworthiness directive is required. There have been no reports of propeller failures; however, a propeller blade failure can result in the loss of aircraft control. This is considered a significant safety issue and all owners/operators are requested to report any problems with propellers that were overhauled by Santa Monica Propeller Service, Inc. between the dates January 1997 to March 1999. Santa Monica Propeller Service, Inc. is located at 3135 Donald Douglas Loop South, Santa Monica, California 90405; Telephone (310) 390-6233, (800) 421-9995, Facsimile (310) 398-3471. This Special Airworthiness Information Bulletin (SAIB) is applicable to owners/operators of all Hartzell and McCauley Propeller models that have had their respective propellers overhauled by Santa Monica Propeller Service, Inc during this time period. Please review the attached compiled listing of identified propeller models and serial numbers to determine if this SAIB is applicable. This is not an exhaustive list as there may be other propellers that were overhauled by Santa Monica Propeller Service, Inc. not listed in this SAIB.

Background:

The FAA recently conducted a routine quality evaluation on Santa Monica Propeller Service, Inc., reviewed repair station records, and shop procedures. During the evaluation it was found that certain required inspections were not being performed in accordance with Hartzell Propeller, Inc. and McCauley Propeller Systems, Inc. overhaul manuals. This included propeller blade face alignment, blade chord, and blade thickness checks. The FAA has determined these checks are required and if not performed may result in a blade configuration not in conformance with the FAA Approved type design. A blade non-conformant may

result in the reduction of service life for the propeller or affect the propeller's continued airworthiness. To date, there have been no reported propeller failures or Service Difficulty Reports (SDR's). However, the FAA determined that owners and operators of these propeller models overhauled by this propeller overhaul shop during the last two years must be notified of this potential safety problem.

Recommendation:

The FAA requests that owners and operators of affected Hartzell, and McCauley Propeller models review their propeller maintenance records and determine if the propeller is affected by this SAIB. It is recommended that all owners/operators check their aircraft and propeller log books for any record of propeller maintenance accomplished by Santa Monica Propeller within the last two years. If any maintenance record shows that work was performed by Santa Monica Propeller, Inc. within the last two years, then the records should be checked further to verify that the propeller blades were properly overhauled in accordance with all Hartzell Propeller, Inc., or McCauley Propeller Systems, Inc. overhaul procedures/requirements. It is also recommended that affected propellers be returned to Santa Monica Propeller to have these inspections accomplished.

NOTE: Contact Hartzell Propeller, Inc. or McCauley Propeller Systems, Inc. for additional information concerning face alignment, blade thickness and chord minimum measurement requirements.

Please send any reports of service difficulties or blade non-conformities/failures to the Chicago Aircraft Certification Office (ACO) for Hartzell and McCauley Propeller models related to this SAIB. Also, please document your service experience and report it to Hartzell, or McCauley Product Support Departments as applicable, so that any other problems can be addressed.

FOR FURTHER INFORMATION CONTACT:

FAA, Chicago Aircraft Certification Office, Propulsion Branch, ACE-118C, 2300 East Devon Avenue, Des Plaines, IL 60018; Mr. Tim Smyth, Aerospace Engineer; Telephone (847) 294-7132; Facsimile (847) 294-7834

Hartzell Product Support; Telephone (937) 778-4379; Facsimile (937) 778-4321

McCauley Product Support; Telephone (937) 890-5246; Facsimile (937) 890-6001

Hartzell and McCauley Propeller Models Overhauled by Santa Monica Propeller, Inc. between January 1997 through March 1999.

1999 MAKEMODELHUB SERIAL NUMBERBLADE SERIAL NUMBER

HartzellIHC-C3YR-1RF/F7663RDY1214E47951, E52105, E48943

McCauley3A32C76(S)(M)/S82NB-2774724K78666YS, K78669YS, K78681YS

McCauley2A36C23/84B-0705476K45135YS, K46008YS

McCauleyD3D32C407/G82NDA3821033CB351, CB360, DC188

HartzellIHC-E2YL-2RBSF/F7663-43812EE44833, E44793

HartzellIHC-E2YR-2RBSF2628EE31067, E31032

McCauleyC2A34C204B931315ND011.ND022

HartzellIHC-C2YK-1BF/F7666A-2CH27843F64895, F64893

McCauleyD2AF34C60NKM779000S77856YS, S77857YS
McCauley3AF32C87NR1/S82NC-5.5798906K98046YS, K98061YS, K98077YS
HartzellHC-C2YK-1BF/F7666A-2CH7472EC78215, C782328
HartzellHC-A2V20-4A1/V8433AK1119A69934, A69287
McCauley3AF32C75/82NB-6776011DE010YS, DE1017YS, DE023YS
McCauley3AF32C75/82NB-6791749GJ289YS, GJ297YS, GJ306YS
HartzellHC-A2V20-4A1/V8833-4AK1017A97083, A93185
McCauleyD3A32C90N/82NC-2823059CI157YS, CJ043YS, CJ053YS
HartzellHC-C2YK-1/F8467-7RCH12265ED43088, D43164
HartzellHC-C2YK-2CUF/FC8477A-4AV86004D50422, FO5800
McCauley3A32C76SM/S82NC-2851746FC227YS, FF372YS, FF330YS
HartzellHC-C2YK-1BF/F7666A-2CH22127EC92970, C91859
McCauley2A34C201/90DA-8713571B36651, B36666
HartzellHC-E2YR-1BF/F8477ADK1853AD93639, D93791
McCauley3AF32C504/82NEA-15.5810813AK116, AK113, AK073
HartzellHC-B3TN-5E/T10178B-11BV4394E40957, E42171E85548
HartzellHC-D4N-3C/D9290SKFY332AF90253, F90339, F90338, F90329
McCauley2A34C66NPS/90AT-8744126C18154YS, C28725YS
McCauleyDAF32C505-B/82NEA-5821687CA540, CA665, CA727
McCauleyD3A32C90MS/S82NC-2764196F20459YS, F205591YS, F26615YS
HartzellHC-E2YL-2BS/7663-4837EB56128, B56322
HartzellHC-E2YL-2BSF/F7663-4841ED22476, D235200
McCauley2A36C23-1/84B-0681428C23054YS, C207004YS
McCauley3AF32C504/82NEA-5.5681428C230054YS, C207004YS
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McCauley2D34C202/82PA-6703988C85738, C89172
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McCauley3AF32C505C/82NEA-5.5871520HF007, HF009, HF014
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HartzellHC-B3TN-5C/T10282+4BU4183H23977, HC23991,
McCauleyD3A34C402/90DFA-10850544B106713, B106372, B95383
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HartzellHC-B3TN-3G/T10178-3RBU15589F35690, F35457, F35555
HartzellHC-B3TN-3G/T10178-3RBU15590F35727, F35557, F35143
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HartzellHC-E2YR-2RBSF/F8465-7R2595EJ235303, J23524
McCauley2A34C203/90DCA-8761835K56315, K56333
HartzellHC-A2VK-2B/V8433-10H2432C96484, D1890
McCauleyB2D34C214/G90DHB-16E766192CK116, CK120
HartzellHC-F2YR-1BF/F8468A-4RCM1214BE22785, E22805
HartzellHC-E3YR-2ATF/FC8468-6RDJ9565AF53702, F72408, F2412
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HartzellHC-M2YR-2CEUF/FC7666AFB578EH27012, H31781
HartzellHC-C2YK(R)-1BF/F7666A-2AW67C97045, D3216
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HartzellHC-B3Z20-2A/10151-8R740JA10138, A46566, A6800
HartzellHC-B3Z20-2A/10151-8R340JA97185, A97591, A97066
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HartzellHC-E3YR-2ALTF/FJC8468-6RDJ9677AF16578, F16582, F16595
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HartzellHC-E3YR-2ALTF/FJC8468-6RDJ8169AH89832, H89833, H89834
HartzellHC-EYR-2ALTF/FJC8468-6RDJ10369AF70841, F70848, F70850
HartzellHC-B3TN-3B/T10173B-8RBUA21222E95592, E95178, E95590
HartzellHC-E3YR-2ATF/FC8468-6RDJ9318A96400, 96394, HO1162
HartzellHC-E3YR-2ATF/FC8468-6RDJ11552AC73330, C78044, C79742
HartzellHC-E3YR-2ATF/FC8468-8RDJ8365AC28481, C22438, C47598
HartzellHC-E3YR-2ATF/FC8468-8RDJ8583AHO2160, D81056, HO2149
McCauley2A34C203-C/90DCA-8736974K26314, K26340
HartzellHC-B3TN-3M/T10173A-6OBU13576E67033, E67038, E67831
1998
MAKEMODELHUB SERIAL NUMBERBLADE SERIAL NUMBER
HartzellBHC-C2YF-1BF/F8052AM2971F99591, F99600
McCauley4HFR34C754-D/94LA-0871325HA036, HA048, HC037, HC042
McCauley4HFR34C754-D/94LA-0871323HC010, HC025, HC057, HC032
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HartzellHC-E2YR-2RBSF/F8465-7RBP5809ED999030, E6
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McCauley3AF32C505-B/C82NEA-5.5850323FE453, FE457, FE468
HartzellHC-C2YR-2CUF/FC7666A-2AU6315EHO4374, HO4382
HartzellHC-C2YR-2CLEUF/FJC7666A-2DN168ED92592, D92625
HartzellPHC-C3YF-2UF/FC7663D-2QEB1591F1108, F97818, F94874
HartzellPHC-C3YF-2UF/FC7663D-2QEB3211H40489, H40487, H40484
HartzellHC-C2YK-1BF/F7666A-2CH19077C63707, H42706

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HartzellHC-C2YK-1BF/F7666A-2CH3938EC65237, C65241
HartzellHC-C2YK-2CULEGF/FJC7666AAU6875H48639, H47210
McCauley3A32C406-C/G82NDB-2930656NA216, NA221, NA226
HartzellHC-F3YR-2UF/FC7479-2RDA1454E71805, E71807, E71809
HartzellHC-F3YR-2UF/FC7479-2RDA1456E61952, E66294, E66295
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McCauleyB2D34C213/90DHA-16770197B69298, B69324
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McCauley3AF32C87NO/S82NC-5.5799666F37194YS, F37834YS, F38530YS
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HartzellHC-E2YR-2RBSF/F8465-7R2814H40037, H90494
HartzellHC-C2YK-1B/7666A-3.5CH5629B30944, B31647
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McCauley3AF34C92/90LF-0922381MH154YS, ME013YS, LK004YS
HartzellHC-E3YR-2ATF/FC8468-6RDJ7836F65427, F65430, C95088
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McCauley2A34C66NP724110B20212YS, B20192YS
McCauleyA34C49NO/S90A-9776057C14794YS, C15056YS
McCauleyC2A34C204/90DCB-8792910B107216, B107227
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McCauley2A34C50NP/90A-871222C11531YS, C10998YS
HartzellHC-B3MN-3/M10083GB2109921, 9914, 9920
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McCauley3GFR34C701C/93KB-0812693BC039, BC164, K79615
HartzellPHC-C3YF-1RF/F7663-2REE1614F70516, F70522, F87889
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