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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2003-NE-13-AD; Amendment 39-13219; AD 2003-13-17]

RIN 2120-AA64

Airworthiness Directives; Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company Propellers

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company (formerly Beech Aircraft Corporation) propellers returned to service by T and W Propellers, Inc., of Chino, CA. This AD requires maintenance actions amounting to an overhaul of the affected propellers. This AD is prompted by the results of a National Transportation Safety Board (NTSB) investigation of a failed propeller blade and subsequent inspections of various propeller models returned to service by T and W Propellers, Inc. We are issuing this AD to detect unsafe conditions that could result in separation of a propeller blade and loss of control of the airplane.

DATES: Effective July 18, 2003.

We must receive any comments on this AD by September 2, 2003.

ADDRESSES: Use one of the following addresses to submit comments on this AD:

- By mail: The Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 2003-NE-13-AD, 12 New England Executive Park, Burlington, MA 01803-5299.
- By fax: (781) 238-7055.
- By e-mail: 9-ane-adcomment@faa.gov. You may examine the AD docket at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA.

FOR FURTHER INFORMATION CONTACT: Tomaso DiPaolo, Aerospace Engineer, Chicago Aircraft Certification Office, FAA, Small Airplane Directorate, 2300 East Devon Avenue, Des Plaines, IL 60018-4696; telephone (847) 294-7031, fax (847) 294-7834.

SUPPLEMENTARY INFORMATION: This AD applies to certain Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company (formerly Beech Aircraft Corporation) propellers returned to service by T and W Propellers, Inc of Chino, CA. This AD requires maintenance actions that amount to an overhaul of the affected propellers. This AD is prompted by the results of an NTSB investigation into the separation of a propeller blade on a Beech 95 Travel Air airplane and subsequent inspections of various propeller models returned to service by T and W Propellers, Inc. The NTSB metallurgical analysis of the failed blade showed that the fracture was approximately 4 inches from the butt end of the propeller blade. Several corrosion pits were found in the propeller inner blade bearing bore at and around the site of crack initiation. While the fatigue failure appeared to have corrosion pits as its initiation site, the size of the crack was approximately 4 inches in the outer surface of the blade shank. A crack of that size is visually detectable. However, the time-since-overhaul (TSO) of the propeller was reported as being zero hours. Documentation from T and W Propellers, Inc. propeller repair station of Chino, CA, indicated that they had complied with Hartzell service documents. However, inspection of the propellers on the airplane involved showed that T and W Propellers, Inc. had not complied with Hartzell service documents. The FAA participated in several subsequent teardowns of other propellers returned to service by T and W Propellers, Inc. We conducted these teardowns on other Hartzell and McCauley propeller models that the public provided voluntarily. The cumulative teardown information provided enough information to substantiate that T and W Propellers, Inc. had introduced unsafe conditions on propellers they had returned to service. These inspections uncovered the following unsafe conditions:

- Extensive corrosion in the internal bearing bore of the blade.
- Absence of corrosion protection (chemical conversion coating and paint) in the internal bearing bore area of the blade.
- Cadmium plating on top of deep corrosion pits.
- Poor cadmium plating and corrosion in the hub.
- Extra phenolic washers that are not approved for use in Hartzell propellers.
- A deteriorated O-ring that was not replaced during the overhaul.
- Failure to properly shot peen propeller parts.

We are requiring certain actions in this AD to detect unsafe conditions that could result in separation of a propeller blade and loss of control of the airplane.

FAA's Determination and Requirements of This AD

The unsafe condition described previously is likely to exist or develop on other propellers that T and W Propellers Inc., propeller repair station of Chino, CA, returned to service. We are issuing this AD to detect unsafe conditions that could result in separation of a propeller blade and loss of control of the airplane. This AD requires maintenance actions that amount to an overhaul of certain Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company propellers returned to service T and W Propellers, Inc., and that are listed by serial number (SN) in this AD.

Recommendation for Propellers Not Identified by SN

This AD currently affects all propellers that we have identified by propeller hub SN from 434 T and W Propellers, Inc. shop work order records. The records range in date from January 8, 2000 to December 30, 2002. This range of dates represents a portion of propellers returned to service by T and W Propellers, Inc. since January 22, 1997, when the FAA issued a repair station certificate to T and W Propellers, Inc. The NTSB and the FAA have conducted inspections on propellers returned to service by T and W Propellers, Inc. as far back as December 1997 and found unairworthy conditions similar to those in propellers identified by serial number in this AD. The FAA has alerted the public

of this through Unapproved Parts Notification No. 2003-00142 issued on March 31, 2003. The FAA recommends that any propeller not in the applicability list for this AD returned to service by T and W Propellers, Inc. comply with paragraph (h) of this AD.

FAA's Determination of the Effective Date

Since an unsafe condition exists that requires the immediate adoption of this AD, we have found that notice and opportunity for public comment before issuing this amendment is impracticable, and that good cause exists for making this amendment effective in less than 30 days.

Changes to 14 CFR Part 39–Effect on the AD

On July 10, 2002, we issued a new version of 14 CFR part 39 (67 FR 47997, July 22, 2002), which governs our AD system. This regulation now includes material that relates to special flight permits, alternative methods of compliance, and altered products. This material previously was included in each individual AD. Since this material is included in 14 CFR part 39, we will not include it in future AD actions.

Comments Invited

This AD is a final rule that involves requirements affecting flight safety and was not preceded by notice and an opportunity for public comment; however, we invite you to submit any written relevant data, views, or arguments regarding this AD. Send your comments to an address listed under ADDRESSES. Include "AD Docket No. 2003-NE-13-AD" in the subject line of your comments. If you want us to acknowledge receipt of your mailed comments, send us a self-addressed, stamped postcard with the docket number written on it; we will date-stamp your postcard and mail it back to you. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of the rule that might suggest a need to modify it. If a person contacts us verbally, and that contact relates to a substantive part of this AD, we will summarize the contact and place the summary in the docket. We will consider all comments received by the closing date and may amend the AD in light of those comments.

We are reviewing the writing style we currently use in regulatory documents. We are interested in your comments on whether the style of this document is clear, and your suggestions to improve the clarity of our communications with you. You may get more information about plain language at http://www.plainlanguage.gov.

Regulatory Findings

We have determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that the regulation:

1. Is not a "significant regulatory action" under Executive Order 12866;

2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and

3. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a summary of the costs to comply with this AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under ADDRESSES. Include "AD Docket No. 2003-NE-13-AD" in your request.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

PART 39–AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

AIRWORTHINESS DIRECTIVE

Aircraft Certification Service
Washington, DC

U.S. Department
of Transportation
**Federal Aviation
Administration**

We post ADs on the internet at "www.faa.gov"

2003-13-17 Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company Propellers: Amendment 39-13219. Docket No. 2003-NE-13-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective July 18, 2003.

Affected ADs

(b) None.

Applicability

(c) This AD applies to Hartzell Propeller, Inc., McCauley Propeller Systems, Sensenich Propeller Manufacturing Company, Inc., and Raytheon Aircraft Company (formerly Beech Aircraft Corporation) propellers returned to service by T and W Propellers, Inc. of Chino, CA, and that have a propeller hub serial number (SN) listed in Table 1 of this AD. Table 1 follows:

MFG	Propeller Model	Propeller Hub S/N	Number of Blades	Work Order Number	Work Order Date
Beech	278-204	7-2148	2	4077	30-Apr-02
Hartzell	HC-C2YK-1BF	1104	2	4003	14-Mar-02
	HC-E2YR-2RBS	385	2	2696	25-Apr-01
	HC-E2YR-2RBS	400	2	2695	25-Apr-01
	HC-92ZK-2B	453F	2	4160	19-Jun-02
	HC-12MV20-7B	6305	2	2837	11-Jul-01
	BHC-A2VF-1	7102	2	2903	26-Aug-01
	HC-92ZK-2B	837F	2	4161	19-Jun-02
	HC-A2V20-4A1	AK442	2	4259	15-Aug-02
	HC-A2V20-4A1	AK480	2	2664	04-Apr-01
	BHC-C2YF-1BF	AM3003	2	4166	21-Jun-02
	BHC-C2YF-2CLKUF	AN2991E	2	4219	26-Jul-02
	BHC-C2YF-2CKUF	AN4567E	2	4147	10-Jun-02
	BHC-C2YF-2CKUF	AN463E	2	3182	28-Feb-02
	BHC-C2YF-2CLUF	AN4698E	2	4146	10-Jun-02
	BHC-C2YF-2CKLUF	AN4967E	2	3183	28-Feb-02
	BHC-C2YF-2CLKUF	AN6260E	2	4155	18-Jun-02
	HC-C2YK-1BF	AN708	2	2823	02-Jul-01
	BHC-C2YF-2CUKF	AN884E	2	4218	26-Jul-02
	HC-C2YR-4CF	AU10811B	2	3149	06-Feb-02
	HC-C2YR-2CGUF	AU2106E	2	2586	07-Feb-01
	HC-C2YR-2CUF	AU221	2	2687	17-Apr-01
	HC-C2YR-2CGUF	AU2726E	2	4112	17-May-02
	HC-C2YR-2CGLUF	AU3241	2	2856	25-Jul-01
	HC-C2YR-2CUF	AU4554	2	2905	27-Aug-01
	HC-C2YR-2CLEUF	AU5660E	2	4075	24-Apr-02
	HC-C2YR-2CEUF	AU5762	2	2909	30-Aug-01
	HC-C2YR-2CLEUF	AU5899	2	2640	22-Mar-01

HC-C2YR-2CEUF	AU6242	2	3003	01-Nov-01
HC-C2YR-2CLEUF	AU6274	2	2910	30-Aug-01
HC-C2YR-2CLEUF	AU6920	2	3127	21-Jan-02
HC-C2YR-2CUF	AU7349	2	2688	17-Apr-01
HC-C2YR-2CUF	AU7449	2	2643	23-Mar-01
HC-C2YR-2CUF	AU779	2	2686	17-Apr-01
HC-C2YR-2CEUF	AU8144A	2	4156	18-Jun-02
HC-C2YL-1BF	AX982B	2	4355	25-Sep-02
HC-E2YR-2RBSF	BD2678	2	4070	24-Apr-02
HC-E2YL-2BS	BG2900	2	2545	27-Dec-00
HC-E2YL-2BSF	BG953	2	2544	27-Dec-00
HC-E2YR-2RBSF	BP1658E	2	3029	16-Nov-01
HC-E2YR-2RBSF	BP391	2	3073	19-Dec-01
HC-E2YR-2RBSF	BP3969E	2	4307	05-Sep-02
HC-E2YR-2RBSF	BP45E	2	3028	16-Nov-01
HC-E2YR-2RBSF	BP6524E	2	4309	15-Sep-02
HC-E2YR-2RBSF	BP6533E	2	4308	19-Sep-02
HC-E2YR-2RBSF	BP7822	2	3072	19-Dec-01
HC-E2YR-2RBSF	BP8161	2	4071	24-Apr-02
HC-C2YK-1BF	CH11057E	2	3093	07-Jan-02
HC-C2YK-1BF	CH12382E	2	4331	24-Sep-02
HC-C2YK-1BF	CH13146	2	2918	04-Sep-01
HC-C2YK-1BF	CH13164E	2	2685	11-Mar-02
HC-Y2R-1BF	CH13886E	2	4152	17-Jun-02
HC-C2YR-1BF	CH14557E	2	4389	12-Nov-02
HC-C2YK-1BF	CH14698E	2	4250	08-Aug-02
HC-C2YK-1B	CH14918	2	2693	24-Apr-01
HC-C2YR-1BF	CH15324E	2	4371	20-Oct-02
HC-C2YK-1BF	CH15549	2	2980	22-Oct-01
HC-C2YK-1BF	CH16548	2	2656	26-Mar-01
HC-C2YK-1BF	CH1832E	2	4031	02-Apr-01
HC-C2YR-1BF	CH20341	2	3074	24-Dec-01

HC-C2YR-1BF	CH21736	2	3000	30-Oct-01
HC-C2YR-1BF	CH22463E	2	4113	20-May-02
HC-C2YR-1BF	CH244481E	2	3145	05-Feb-02
HC-C2YK-1BF	CH24828E	2	4207	19-Jul-02
HC-C2YK-1BF	CH25304E	2	4261	16-Aug-02
HC-C2YK-1BF	CH25818E	2	4009	18-Mar-02
HC-C2YK-1BF	CH27682	2	3054	10-Dec-01
HC-C2YK-1B	CH2800	2	2829	05-Jul-01
HC-C2YK-1BF	CH2829	2	2825	03-Jul-01
HC-C2YK-1BF	CH28344	2	2673	10-Apr-01
HC-C2YR-1BF	CH29648	2	2593	09-Feb-01
HC-C2YK-1BF	CH2993	2	2644	26-Mar-01
HC-C2YK-1BF	CH3259	2	3060	11-Dec-01
HC-C2YR-1BF	CH35413B	2	3080	03-Jan-02
HC-C2YR-1BF	CH35525B	2	3089	07-Jan-02
HC-C2YK-1BF	CH35587B	2	3186	04-Mar-02
HC-C2YK-1BF	CH35737B	2	4017	25-Mar-02
HC-C2YK-1BF	CH4826E	2	4257	13-Aug-02
HC-C2YK-1BF	CH4891	2	2540	26-Dec-00
HC-C2YK-1BF	CH5827	2	3068	17-Dec-01
HC-C2YK-1BF	CH5868	2	2604	16-Feb-01
HC-C2YK-1BF	CH5953	2	2606	28-Feb-01
HC-C2YK-1B	CH6454E	2	4316	15-Sep-02
HC-C2YK-1B	CH7120	2	2546	02-Jan-01
HC-C2YK-1BF	CH8032	2	4110	17-May-02
HC-C2YR-1BF	CH9804E	2	4180	10-Jul-02
HC-F2YR-1F	CM1111A	2	2684	17-Apr-01
HC-F2YR-1F	CM413	2	2648	28-Mar-01
HC-F2YR-1F	CM610	2	3038	28-Nov-01
HC-F2YR-1F	CM713E	2	4266	20-Aug-02
HC-F2YR-1F	CM952	2	2595	20-Feb-01
HC-E2YR-1BF	DK1067E	2	4337	30-Sep-02

HC-E2YR-1BF	DK1244E	2	4233	31-Jul-02
HC-E2YR-1BF	DK1812A	2	4235	02-Aug-02
HC-C2YR-2CLEUF	DN1287E	2	2982	22-Oct-01
HC-C2YR-4AF	DN3795	2	2959	01-Oct-01
HC-C2YK-1BF	DW317	2	3015	12-Nov-01
HC-M2YR-1BF	EN364E	2	4375	30-Oct-02
HC-M2YR-1BF	EN67	2	2833	10-Jul-01
HC-F2YL-1F	EU7	2	4128	28-May-02
HC-82VF-2B	F1626N	2	2742	18-May-01
HC-82VF-2B	F589	2	2741	18-May-01
HC-M2YR-2CEUF	FB191	2	3061	11-Dec-01
HC-M2YR-2CLEUF	FB199	2	4354	08-Oct-02
HC-M2YR-2CLEUF	FB44	2	2819	28-Jun-01
HC-M2YR-2CLEUF	FB44	2	4391	14-Nov-02
HC-M2YR-1BF	FB69	2	2683	16-Apr-01
HC-M2YR-2CEUF	FB695	2	2543	27-Dec-00
HC-F2YL-2UF	FE149	2	2560	29-Jan-01
HC-F2YL-2UF	FE171	2	2559	29-Jan-01
HC-C2YR-1B	HC4788E	2	4311	05-Sep-02
HC-A2VK-1	J1576	2	2557	08-Jan-01
HC-A2VK-1	J1665	2	4399	19-Nov-02
HC-12V20-7B	P563N	2	3006	05-Nov-01
HC-82VF-1DB	T2527N	2	2862	27-Aug-01
HC-92VF-1	T3299N	2	2790	13-Jun-01
HC-A2VF-2	Y270	2	3039	29-Nov-01
HC-B3R30-2E	AB1930	3	3087	05-Jan-02
HC-B3R30-2E	BB145	3	3086	05-Jan-02
PHC-A3VF-4	BL115	3	4406	26-Nov-02
HC-A3VF-7B	BR802	3	4224	22-Jul-02
PHC-A3VF-4	BR808	3	3049	05-Dec-01
HC-B3TN-3B	BU16047	3	4317	05-Sep-02
HC-B3TN-3B	BU18742	3	4318	05-Sep-02

	HC-B3TN-3D	BUA24344	3	2680	16-Apr-01
	HC-B3TN-2B	BUA24927	3	2985	23-Oct-01
	HC-B3TN-5	BV957	3	2894	20-Aug-01
	HC-B3TN-5FL	BVA7395	3	2679	16-Apr-01
	HC-B3TN-5FL	BVA7497	3	2883	16-Aug-01
	HC-B3TN-5G	BVA7719	3	2901	24-Aug-01
	HC-B3TH-5FL	BVA7759	3	2890	16-Aug-01
	HC-B3TN-5FL	BVA8025	3	4299	04-Sep-02
	HC-C3YR-2UF	CK4851B	3	3021	14-Nov-01
	HC-83V20-2C1	D1380N	3	4049	09-Apr-02
	HC-F3YR-2UF	DA1308	3	2773	06-Jun-01
	HC-F3YR-2UF	DA1332	3	2772	06-Jun-01
	HC-C3YN-2LAUF	DG286	3	4345	02-Oct-02
	HC-C3YN-2LAUF	DG287	3	4345	02-Oct-02
	HC-E3YR-2ATF	DJ10391A	3	4296	03-Sep-02
	HC-E3YR-2ALTF	DJ10394A	3	4297	03-Sep-02
	HC-C3YR-1RF	DY1222	3	4066	16-Apr-02
	PHC-J3YF-2UF	ED1453	3	3017	12-Nov-01
	PHC-J3YF-2UF	ED3055	3	3196	11-Mar-02
	PHC-C3YF-112F	EE1286	3	2936	17-Sep-01
	PHC-C3YF-1RF	EE267	3	4181	03-Jul-02
	PHC-C3YF-1RF	EE89	3	4124	28-May-02
	PHC-L3YF-1RF	FD99A	3	4241	05-Aug-01
	EHC-G3YF-2UF	FJ102	3	4041	04-Apr-02
	EHC-G3YF-2UF	FJ136	3	4040	04-Apr-02
	HC-E3YR-112F	FM1352B	3	4278	15-Jul-02
	HC-B4TN-5HL	E74186	4	2633	20-Mar-01
McCauley	D2A34C58-0	791088	2	2949	26-Sep-01
	B2D34C207-A	804515	2	3048	05-Dec-01
	B2D34C220-B	860844	2	3022	14-Nov-01
	B2D34C207	7910990	2	4262	15-Aug-02
	B2D37C224-B	000387	2	4199	15-Jul-02

41D5926	19627	2	2552	08-Jan-00
2A36C29-AG	59927	2	3097	08-Jan-02
2A36C29-A6	601636	2	4283	28-Aug-02
2AF36C89	61102	2	2744	18-May-01
D2AF36C48-CB	622090	2	2589	09-Feb-01
D2AF36C48-CB	622724	2	2590	09-Feb-01
2A36C23-CPEG	642372	2	2602	23-Feb-01
2A36C23-CPEG	643488	2	2743	18-May-01
2A36C23-D-CEG	653697	2	2676	11-Apr-01
D2AF34C61-XMO	662056	2	2929	10-Sep-01
2A36C23-CPG	666963	2	2555	08-Jan-01
2A34C66-CMNP	673620	2	4386	08-Nov-02
2A34C201-C	696643	2	3023	16-Nov-01
2D34C202	696932	2	2785	12-Jun-01
2A34C66-LMP	697081	2	4302	04-Sep-02
D2AF34C59-NP	698044	2	2989	24-Oct-01
2A34C66-NP	702791	2	2562	29-Jan-01
2AF34C55-NO	703122	2	2607	01-Mar-01
D2AF34C302	704356	2	3034	21-Nov-01
D2A34C58-NO	712830	2	3024	15-Nov-01
2A34C66-NOP	714193	2	2852	23-Jul-01
D2A34C58-NO	714368	2	2880	14-Aug-01
B2D34C208	715634	2	2563	02-Feb-01
2A34C66-NOP	720394	2	2647	28-Mar-01
2A34C66-NP	720799	2	3013	09-Nov-01
2A34C203-C	722149	2	2601	23-Feb-01
2A34C201-C	732285	2	2572	02-Feb-01
2A34C66-NP	734925	2	2892	20-Aug-01
D2AF34C54-NP	736511	2	2889	17-Aug-01
2A36C23-P-E6	738679	2	2705	01-May-01
2A34C66-NP	741202	2	4016	25-Mar-02
2A34C203-C	746751	2	2779	07-Jun-01

D2AF34C306	747857	2	4363	22-Oct-02
2A34C203-C	748419	2	2968	10-Oct-01
2A34C203-C	750668	2	2888	17-Aug-01
2A34C203-C	752018	2	4194	12-Jul-02
D2AF34C303-A	752971	2	2635	19-Mar-01
2A34C66-NP	753264	2	4076	29-Apr-02
2A34C203-C	756299	2	2600	23-Feb-01
2A34C203-C	757569	2	3144	05-Feb-02
B2D34C211	760569	2	4369	26-Oct-02
2A34C201	762799	2	4065	22-Apr-02
2A34C201-C	764227	2	4225	29-Jul-02
2A34C203-C	765022	2	3100	10-Jan-02
B2D34C207	765394	2	2954	28-Sep-01
B2D34C207	767372	2	4223	29-Jul-01
B2D34C212	771038	2	4264	20-Aug-02
C2A34C204-C	772536	2	2806	25-Jun-01
B2D34C212	773467	2	2913	29-Aug-01
2A34C201-C	776485	2	4315	05-Sep-02
B2D34C214	778701	2	2943	22-Sep-01
2A34C66-NP	7810001	2	2691	20-Apr-01
D2AF34C81-O	782537	2	3053	07-Dec-01
B2D34C214	783413	2	2591	12-Feb-01
B2D34C214	783690	2	2832	09-Jul-01
2A34C66-NP	783769	2	3031	19-Nov-01
2A34C216	786531	2	4188	09-Jul-02
D2AF34C307-A	786553	2	4364	22-Oct-02
B2D34C214	787223	2	4084	02-May-02
B2D34C214	787451	2	3132	30-Jan-02
2A34C66-NP	791699	2	2902	26-Aug-01
D2A34C58-0	795621	2	4099	01-May-02
B2D34C220	799931	2	2735	17-May-01
B2D34C220-B	804080	2	2573	05-Feb-01

B2D34C214-A	806619	2	2621	12-Mar-01
2A34C216	807039	2	2955	28-Sep-01
2A34C50-P	810564	2	4203	17-Jul-02
B2D34C214-A	811752	2	2782	11-Jun-01
B2D34C220	812718	2	3120	18-Jan-02
B2D34C214-A	815034	2	2778	07-Jun-01
B2D34C220	815405	2	3101	10-Jan-02
B2D34C220	821006	2	2851	20-Jul-01
B2D34C220-B	822357	2	3137	31-Jan-02
2A34C66-NP	822643	2	4144	10-Jun-02
B2D34C220-B	822736	2	4097	10-May-02
C2A34C204-C	832092	2	3148	06-Feb-02
D2AF34C307-B	851157	2	4373	29-Oct-02
2A34C203-C	891683	2	4270	21-Aug-02
B2334C53-0	900357	2	3169	18-Feb-02
2A36C23-D-G	900959	2	2977	19-Oct-01
2A34C203-C	902086	2	3185	04-Mar-02
B2D34C214	902215	2	3197	12-Mar-02
2A36C23-DG	912711	2	2582	08-Feb-01
2A34C203-B	921416	2	4236	01-Aug-02
B2D34C220-B	930262	2	4108	16-May-02
C2A34C204-C	930476	2	4202	16-Jul-02
D2AF34C81-O	962316	2	3052	07-Dec-01
D3A32C411-C	91220	3	2824	02-Jul-01
3AF32C75-NR	704725	3	2846	16-Jul-01
3PF32C501-A	812753	3	4145	10-Jun-02
3A32C406-B	814842	3	2956	28-Sep-01
3A32C406-B	821868	3	2752	23-May-01
3A32C406	922028	3	2689	18-Apr-01
3AF32C512-C	020337	3	4395	15-Nov-02
D3A32C88-ALMR	68433	3	2774	06-Jun-01
3AF34C92-K	693112	3	2536	21-Dec-00

D3A32C88-LMR	700753	3	2581	07-Feb-01
D3A32C90-MLKN	703346	3	3070	17-Dec-01
D3A32C88-MR	712006	3	4306	05-Sep-02
3AF32C93-NR	712262	3	3007	09-Nov-01
3AF34C92-NPR	725401	3	4253	09-Aug-02
3A32C76-SMR	726830	3	3115	25-Mar-02
D3A32C77-MR	727923	3	2712	01-May-01
3AF32C72-NR	732813	3	2841	12-Jul-01
3AF34C92-PR	732844	3	4366	15-Oct-02
3AF32C75-NR	739402	3	2847	16-Jul-01
3AF32C87-NR	739554	3	2554	08-Jan-01
D3A32C90-MN	761217	3	3190	06-Mar-02
3A32C76-SMR	763448	3	2821	29-Jun-01
D3A32C88-MR	764369	3	2974	16-Oct-01
D3A34C402	765820	3	2930	10-Sep-01
D3A34C402-B	769212	3	4217	26-Jul-02
3AF34C92-NPR	770540	3	2928	10-Sep-01
3AF32C87-NR	7710126	3	2553	05-Jan-01
3A32C76-SMR	772030	3	2641	23-Mar-01
D3A34C403	777494	3	2944	24-Sep-01
3AF32C87-NIR	778133	3	4004	13-Mar-02
3AF32C87-NR	780701	3	2566	01-Feb-01
D3A34C402	783312	3	3116	17-Jan-02
D3A34C402	783736	3	2715	02-May-01
3AF34C92-NPR	783751	3	4252	09-Aug-02
3AF32C87-NIR	788970	3	4039	03-Apr-02
3AF32C93-NR	789159	3	4277	26-Aug-02
3AF32C93-NR	789159	3	3008	09-Nov-01
D3A34C403	790582	3	4096	09-May-02
3A32C76-SMR	7910885	3	4085	02-May-02
3A32C76-SMR	791330	3	3042	03-Nov-01
D3A34C402	792767	3	4244	05-Nov-02

3A32C76-SMR	793937	3	3103	12-Sep-01
3A32C76-UMR	794268	3	2868	31-Jul-01
D3A34C404-C	794365	3	4402	22-Nov-02
D3A34C402-B	794599	3	3035	31-Oct-01
3AF32C87-NR	794951	3	2876	10-Aug-01
3A32C76-UMR	795657	3	2799	20-Jun-01
3AF32C87-NR	795913	3	2984	23-Oct-01
D3A34C402	796810	3	3123	21-Jan-02
3A32C76-UMR	797065	3	2701	27-Apr-01
3A32C76-SMR	801913	3	4238	02-Aug-02
D3A34C402-B	802285	3	2732	14-May-01
D3A34C402	811314	3	4365	24-Oct-02
D3A34C402	811314	3	4365	30-Dec-02
3FF32C501-A	812626	3	3064	14-Dec-01
3FF32C501-A	812685	3	3065	14-Dec-01
3A32C76-SMR	813109	3	4048	09-Apr-02
3AF34C92-PR	813549	3	2629	14-Mar-01
3AF32C87-NR	814072	3	2965	08-Oct-01
3A32C406-B	821336	3	2797	19-Jun-01
3A32C406-B	821659	3	4163	20-Jun-02
3A32C406-B	821864	3	4059	16-Apr-02
D3A34C402-B	822071	3	4131	30-May-02
3AF34C92-PR	851435	3	4367	25-Oct-02
3A32C409	860038	3	2723	08-May-01
3AF32C504-B	861373	3	2983	23-Oct-01
D3A32C409-C	890285	3	2858	25-Jul-01
3A32C406-C	891080	3	4394	15-Nov-02
3AF32C505-B	891968	3	2997	30-Oct-01
3AF32C512-C	901517	3	4393	14-Nov-02
3AF32C512-C	901523	3	4392	14-Nov-02
C3D36C415-C	901743	3	2598	27-Feb-01
3AF32C504-C	910236	3	2964	08-Oct-01

3A32C406-C	910908	3	4401	20-Nov-02
3A32C406-C	921717	3	2551	05-Jan-01
D3A32C409-C	922374	3	2639	31-Mar-01
D3A32C409-C	932027	3	3010	09-Nov-01
3AF34C92-R	932083	3	2653	29-Mar-01
3AF34C92-K	932104	3	2654	29-Mar-01
D3A34C402-C	932139	3	4204	18-Jul-02
3AF32C515	961848	3	4028	01-Apr-02
3AF32C515	961855	3	4029	01-Apr-02
B3D32C417-C	961934	3	4313	09-Sep-02
3AF32C512-C	971389	3	4183	05-Jul-02
3AF32C512-C	971569	3	4182	05-Jul-02
D3A34C402-C	980569	3	2605	27-Feb-01
D3A34C404-C	982779	3	4353	08-Oct-02
1C160/DTM7557	728381	Fixed pitch	2975	17-Oct-01
1C160/DTM7553	734129	Fixed pitch	2549	03-Jan-01
1B90/CM7044	26224	Fixed pitch	2758	29-May-01
1B90/CM7154	32697	Fixed pitch	2757	24-May-01
1A170/DM7651	61112	Fixed pitch	4164	20-Jun-02
1A170/DM7651	62877	Fixed pitch	4098	10-May-02
1A170/DM7653	63366	Fixed pitch	3081	02-Jan-02
1A175/FC8467	66725	Fixed pitch	2734	15-May-01
1C172/EM7654	70354	Fixed pitch	2756	23-May-01
1C172/EM7552	70649	Fixed pitch	2717	04-May-01
1C160/CTM7554	710178	Fixed pitch	2623	12-Mar-01
1C160/CTM7553	710495	Fixed pitch	3090	07-Jan-02
1C160/CTM7553	721463	Fixed pitch	4300	14-Sep-02
1C160/CTM7557	725675	Fixed pitch	2804	22-Jun-01
1C160/CTM7557	725685	Fixed pitch	2737	17-May-01
1C160/DTM7553	726476	Fixed pitch	2731	14-May-01
1C160/DTM7557M1	729559	Fixed pitch	2713	01-May-01
1C160/DTM7555	729858	Fixed pitch	4037	02-Apr-02

1C160/DTM7557	730646	Fixed pitch	4104	15-May-02
1C160/DTM7557M1	733907	Fixed pitch	2580	06-Feb-01
1C160/DTM7557M1	734350	Fixed pitch	4379	31-Oct-02
1C160/DTM7557M1	735796	Fixed pitch	2784	11-Jun-01
1C160/DTM7557M1	735893	Fixed pitch	2583	07-Feb-01
1A103/TCM6958	770810	Fixed pitch	2850	20-Jul-01
1A103/TCM6958	772113	Fixed pitch	2776	06-Jun-01
1A103/TCM6958	773931	Fixed pitch	4276	23-Aug-02
1A103/TCM6958	775216	Fixed pitch	3170	19-Feb-02
1A103/TCM6958	775787	Fixed pitch	2667	05-Apr-01
1A103/TCM6958	776415	Fixed pitch	2740	18-May-01
1A103/TCM6958	776670	Fixed pitch	4122	28-May-02
1C160/DTM7557M1	82161	Fixed pitch	4213	24-Jul-02
1C160/DTM7557M1	BL193	Fixed pitch	2814	27-Jun-01
1C160/DTM7557M1	CC042	Fixed pitch	2599	25-Feb-01
1C160/DTM7557M1	CK208	Fixed pitch	2775	06-Jun-01
1A103/TCM6958	DG020	Fixed pitch	2853	24-Jul-01
1C172/MTM7453	E10939	Fixed pitch	4378	31-Oct-02
1C172/MTM7653	E13563	Fixed pitch	4407	27-Nov-02
1C172/SBTM7359	E17057	Fixed pitch	2625	14-Mar-01
1C172/TM7653	E8301	Fixed pitch	3164	16-Feb-01
1A100/MCM6950	F3506	Fixed pitch	4154	18-Jun-02
1A100/MCM6950	F5414	Fixed pitch	2567	02-Feb-01
1A100/MCM6952	F726	Fixed pitch	4024	01-Apr-02
1A101/HCM6948	G11294	Fixed pitch	2570	02-Feb-01
1A102/OCM6948	K20061	Fixed pitch	2665	04-Apr-01
1A103/TCM6958	KK036	Fixed pitch	4109	17-May-02
1A170/BMS7660	LA044	Fixed pitch	4008	18-Mar-02
1C160/DTM7557M1	MK010	Fixed pitch	2699	25-Apr-01
1A103/TCM6958	NA012	Fixed pitch	2663	20-Apr-01
1A170/EFA7553	P76815	Fixed pitch	2878	13-Aug-01
1C172/MDM7653	P79270	Fixed pitch	4081	02-May-02

	1A170/FFA7563	P80498	Fixed pitch	4240	05-Aug-02
	1A103/TCM6958	PEJ039	Fixed pitch	4126	27-May-02
	1A103/TCM6958	PR775211	Fixed pitch	2786	12-Jun-01
	1C235/LFA7570	QF016	Fixed pitch	4184	08-Jul-00
	1C235/LFA7570	QK008	Fixed pitch	2973	15-Oct-01
	1A103/TCM6958	R771635	Fixed pitch	4087	06-May-02
	1A103/TCM6958	R771922	Fixed pitch	2634	19-Mar-01
	1A103/TCM6958	R772681	Fixed pitch	2879	14-Aug-01
	1A103/TCM6958	R773668	Fixed pitch	2840	12-Jul-01
	1A103/TCM6958	R774213	Fixed pitch	4044	08-Apr-02
	1A103/TCM6958	R774509	Fixed pitch	2803	21-Jun-01
	1A103/TCM6958	R774950	Fixed pitch	2844	09-Jul-01
	1A103/TCM6958	R775395	Fixed pitch	2842	12-Jul-01
	1A103/TCM6958	R776149	Fixed pitch	2759	29-May-01
	1A103/TCM6958	R776150	Fixed pitch	4265	20-Aug-02
	1A103/TCM6958	RG038	Fixed pitch	2657	30-Mar-01
	1A103/TCM6958	RGA026	Fixed pitch	2769	05-Jun-01
	1A103/TCM6958	RP773661	Fixed pitch	4281	27-Aug-02
	1A103/TCM6958	RP774339	Fixed pitch	4282	27-Aug-02
Sensenich	76EM8S5-0-60	11495K	Fixed pitch	4106	16-May-02
	76EM8S5-0-62	12489K	Fixed pitch	2603	26-Feb-01
	76EM8S5-0-60	14861K	Fixed pitch	3121	19-Jan-02
	76EM8S5-0-60	15777K	Fixed pitch	4205	26-Jun-01
	76EM8S510-0-63	18122K	Fixed pitch	4239	17-Jul-02
	M74DM6-0-56	18893	Fixed pitch	2597	21-Feb-01
	76EM8S5-0-60	19209K	Fixed pitch	4014	20-Mar-02
	76EM8S5-0-60	20605K	Fixed pitch	2565	31-Jan-01
	76EM8-0-60	23378K	Fixed pitch	4001	13-Mar-02
	76AM6-2-50	23553	Fixed pitch	4404	25-Nov-02
	76EM8S5-0-60	25510K	Fixed pitch	4170	26-Jun-02
	76EM8S10-0-62	26282K	Fixed pitch	3018	12-Nov-01
	76EM8S14-0-60	26431K	Fixed pitch	2703	30-Apr-01

76EM8S5-0-62	26714K	Fixed pitch	2791	13-Jun-01
76EM8S10-0-62	27114K	Fixed pitch	2867	01-Aug-01
76EM8S5-0-62	27651K	Fixed pitch	4007	15-Mar-02
76EM8S14-0-60	28769K	Fixed pitch	4149	11-Jun-02
76EM8S5-0-60	30364K	Fixed pitch	2767	04-Jun-01
76EM8-0-60	41649K	Fixed pitch	2939	18-Sep-01
74DM6-0-56	A43974	Fixed pitch	2745	21-May-01
74DM6-0-58	A44432	Fixed pitch	4129	30-May-02
74DM6-0-60	A45853	Fixed pitch	4200	16-Jul-02
74DM6-0-60	A47606	Fixed pitch	4139	05-Jun-02
74DM6-0-60	A48300	Fixed pitch	2592	09-Feb-01
74DM6-2-64	A51317	Fixed pitch	2666	04-Apr-01
M69CK-0-52	K1150	Fixed pitch	4209	22-Jul-02
M74DM-0-56	K12256	Fixed pitch	4072	24-Apr-02
72CKS12-0-52	K3278	Fixed pitch	2914	30-Aug-01
74DM6-0-58	K33644	Fixed pitch	2845	16-Jul-01
74DM6S5-0-54	K34229	Fixed pitch	4091	08-May-02
74DM6-2-62	K36552	Fixed pitch	3002	01-Nov-01
74DM6S5-0-54	K37994	Fixed pitch	4320	10-Sep-02
74DM6-0-58	K39012	Fixed pitch	4107	16-May-02
69CKS12-0-50L	K6518	Fixed pitch	2561	29-Jan-01
M74DM-0-58	K6931	Fixed pitch	4132	25-May-02

Unsafe Condition

(d) This AD is prompted by the results of a National Transportation Safety Board (NTSB) investigation of a failed propeller blade and subsequent inspections of various propeller models returned to service by T and W Propellers, Inc. We are issuing this AD to detect unsafe conditions that could result in separation of a propeller blade and loss of control of the airplane.

Compliance

(e) If you have not already performed the actions required by this AD, you must perform the actions within the compliance times specified in this AD.

Required Actions

(f) For propellers listed in Table 1 of this AD, that have been overhauled since being returned to service by T and W Propellers, Inc by an authorized repair station other than T and W Propellers, Inc., no further action is required.

Propellers With Fewer Than 10 Hours Time-in-Service (TIS) Since Return to Service

(g) Before further flight, perform the actions specified in paragraph (h) of this AD on propellers listed in Table 1 of this AD, that have fewer than 10 hours time-in-service (TIS) since return to service by T and W Propellers, Inc. You can find information on performing the actions in the applicable propeller manufacturer's service documentation.

(h) Perform the following actions:
(1) Disassemble,
(2) Clean,
(3) Inspect for the following:
(i) Cracks,
(ii) Corrosion,
(iii) Nicks,
(iv) Scratches,
(v) Blade minimum dimensions,
(vi) Chemical conversion coat or paint or both applied over corrosion,
(vii) Lack of chemical conversion coating,
(viii) Lack of paint on internal surfaces,
(ix) Bolts incorrectly torqued,
(x) Incorrect parts,
(xi) Incorrect installation of parts,
(xii) Reinstallation of parts intended for one-time use, and
(xiii) Lack of proper shot peening.
(4) Repair and replace with serviceable parts, as necessary,
(5) Reassemble and test.

Propellers With 10 Hours or More TIS Since Return to Service

(i) Within 10 hours TIS after the effective date of this AD or one year after the effective date of this AD, whichever is earlier, perform the actions specified in paragraph (h) of this AD on propellers listed in Table 1 of this AD, that have 10 hours or more TIS since return to service by T and W Propellers, Inc. You can find information on performing the actions in the applicable propeller manufacturer's service documentation.

Required Actions Before Installation

(j) After the effective date of this AD, do not install any propeller that has a SN listed in Table 1 of this AD returned to service by T and W Propellers, Inc. unless you have performed paragraph (h) of this AD on the propeller.

Alternative Methods of Compliance (AMOCs)

(k) You must request AMOCs as specified in 14 CFR 39.19. All AMOCs must be approved by the Manager, Chicago Aircraft Certification Office, FAA.

Special Flight Permits

(l) We will not issue special flight permits for propellers with fewer than 10 hours TIS since return to service by T and W Propellers, Inc.

Material Incorporated by Reference

(m) None.

Related Information

(n) The applicable propeller manufacturer's service documents contain instructions for performing the required overhaul actions.

Issued in Burlington, Massachusetts, on June 26, 2003.
Francis A. Favara,
Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.
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