to: http://www.archives.gov/federal_register/ code_of_federal_regulations/ ibr locations.html.

Issued in Renton, Washington, on December 16, 2009.

Stephen P. Boyd,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service. [FR Doc. E9–30709 Filed 12–30–09; 8:45 am] BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2008-0052; Directorate Identifier 2008-NE-01-AD; Amendment 39-16151; AD 2009-26-12]

RIN 2120-AA64

Airworthiness Directives; Engine Components, Inc. (ECi) Reciprocating Engine Cylinder Assemblies

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT). **ACTION:** Final rule.

SUMMARY: The FAA is superseding an existing airworthiness directive (AD) for Lycoming Engines (formerly Textron Lycoming) models 320, 360, and 540 series, "Parallel Valve" reciprocating engines, with certain Engine Components, Inc. (ECi) cylinder assemblies, part number (P/N) AEL65102 series "Titan," installed. That AD currently requires initial and repetitive visual inspections and compression tests to detect cracks at the head-to-barrel interface, replacement of cylinder assemblies found cracked, and replacement of certain cylinder assemblies at new, reduced times-inservice. This AD requires the same actions, but for an expanded population of cylinder assemblies. This AD results from reports of 10 additional cylinder head separations since issuing AD 2008–19–05, on cylinder serial numbers not listed in that AD. We are issuing this AD to prevent loss of engine power due to cracks at the head-to-barrel interface and possible engine failure caused by separation of a cylinder head, which could result in loss of control of the aircraft.

DATES: This AD becomes effective February 4, 2010.

ADDRESSES: The Docket Operations office is located at Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue, SE., West Building Ground Floor, Room W12–140, Washington, DC 20590–0001.

FOR FURTHER INFORMATION CONTACT:

Peter W. Hakala, Aerospace Engineer, Special Certification Office, FAA, Rotorcraft Directorate, 2601 Meacham Blvd., Fort Worth, TX 76193; e-mail: *peter.w.hakala@faa.gov;* telephone (817) 222–5145; fax (817) 222–5785.

SUPPLEMENTARY INFORMATION: The FAA proposed to amend 14 CFR part 39 by superseding AD 2008-19-05, Amendment 39-15672 (73 FR 53105, September 15, 2008), with a proposed AD. The proposed AD applies to Lycoming Engines (formerly Textron Lycoming) models 320, 360, and 540 series, "Parallel Valve" reciprocating engines, with certain Engine Components, Inc. (ECi) cylinder assemblies, part number (P/N) AEL65102 series "Titan," installed. We published the proposed AD in the Federal Register on July 30, 2009 (74 FR 37955). That action proposed to require initial and repetitive visual inspections and compression tests to detect cracks at the head-to-barrel interface, replacement of cylinder assemblies found cracked, and replacement of certain cylinder assemblies at new, reduced times-inservice, and for an expanded population of cylinder assemblies.

Examining the AD Docket

You may examine the AD docket on the Internet at *http:// www.regulations.gov;* or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647–5527) is provided in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

Comments

We provided the public the opportunity to participate in the development of this AD. We have considered the comments received.

Two commenters state that proposed AD paragraphs (m) and (n) are confusing and contradictory. Paragraph (m) allows repair or replacement of cylinders with leakage provided that the cylinder is not cracked, but paragraph (n) prohibits removed cylinders from being reinstalled.

We agree. We changed paragraph (m) to state "For Group 'A' cylinder assemblies only, repair or replace the engine cylinder assembly before further flight if the cause of the low gauge reading in paragraph (k) of this AD is from leaking intake or exhaust valves, or from leaking piston rings." We also changed paragraph (n) to state, "After the effective date of this AD, do not install any Group 'B' ECi cylinder assembly, P/N AEL65102, onto any engine and do not attempt to repair or reuse Group 'B' cylinder assemblies."

Conclusion

We have carefully reviewed the available data, including the comments received, and determined that air safety and the public interest require adopting the AD with the changes described previously. We have determined that these changes will neither increase the economic burden on any operator nor increase the scope of the AD.

Costs of Compliance

We estimate that this AD will affect about 18,000 ECi cylinder assemblies installed in aircraft of U.S. registry. The visual inspection and compression tests will take about 4 work-hours for each engine. An individual cylinder replacement will require \$1,100 for parts and 6 work-hours. Lycoming engines with a set of 4 ECi cylinders will require 12 work-hours for the cylinder replacement. Lycoming engines with a set of 6 ECi cylinders will require 16 work-hours for the cylinder replacement. We estimate 18 percent of the affected population of cylinders will be replaced. We estimate the total cost of the AD to U.S. operators to be \$10,172,000. Our estimate is exclusive of any possible warranty coverage.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, Section 106, describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701, "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

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 this AD:

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

(2) Is not a "significant rule" under 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 at the address listed under **ADDRESSES**.

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 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 removing Amendment 39–39–15672 (73 FR 53105, September 15, 2008), and by adding a new airworthiness directive, Amendment 39–16151, to read as follows:

2009–26–12 Engine Components, Inc. (ECi):

Amendment 39–16151. Docket No. FAA–2008–0052; Directorate Identifier 2008–NE–01–AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective February 4, 2010.

Affected ADs

(b) This AD supersedes AD 2008–19–05, Amendment 39–15672.

TABLE 1-ENGINE MODELS

Applicability

(c) If your engine has not been overhauled, or not had any cylinder assemblies replaced since new, no further action is required.

(d) This AD applies to the Lycoming Engines (formerly Textron Lycoming) models 320, 360, and 540 series, "Parallel Valve," reciprocating engines listed in Table 1 of this AD, with ECi cylinder assembly, part number (P/N) AEL65102 series "Titan," and with cylinder head, P/N AEL85099, installed.

(1) The applicable cylinder assembly serial numbers (S/Ns) are S/N 1138–02 through S/N 35171–22 (referred to in this AD as Group "A" cylinder assemblies); and

(2) S/N 35239–01 through S/N 42179–30 (referred to in this AD as Group "B" cylinder assemblies).

(3) The cylinder assembly P/N is at the crankcase end of the cylinder assembly, and might be difficult to see. As a guide in determining if your cylinder assemblies are affected, all affected cylinder assemblies have cylinder head P/N AEL85099. The cylinder head P/N is at the top of the cylinder head, near the intake and exhaust valve springs, and is easier to locate than the cylinder assembly P/N.

(4) The set of numbers appearing on the cylinder, above and to the left of the S/N, in the form of "123456" is not used for determining this AD's applicability.

Cylinder assembly part No.	Installed on engine models
AEL65102-NST04	 O-320-A1B, A2B, A2C, A2D, A3A, A3B, B2B, B2C, B2D, B2E, B3B, B3C, C2B, C2C, C3B, C3C, D1A, D1AD, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2E, E2F, E2G, E2H, E3D, E3H. IO-320-A1A, A2A, B1A, B1B, B1C, B1D, B1E, B2A, D1A, D1AD, D1B, D1C, E1A, E1B, E2A, E2B. AEIO-320-D1B, D2B, E1A, E1B, E2A, E2B. AIO-320-A1A, A1B, A2A, A2B, B1B, C1B. LIO-320-B1A.
AEL65102-NST05	IO-320-C1A, C1B, C1F, F1A. LIO-320-C1A.
AEL65102-NST06	O–320–A1A, A2A, A2B, A2C, A3A, A3B, A3C, E1A, E1B, E2A, E2C, (also, an O–320 model with no suffix). IO–320–A1A, A2A.
AEL65102-NST07	IO-320-B1A, B1B. LIO-320- B1A.
AEL65102-NST08 AEL65102-NST10	O-320-B1A, B1B, B2A, B2B, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C3A, C3B, C3C, D1A, D1B, D2A, D2B, D2C.
AEL65102-NST12	B2C5, B4A5, B4B5, D1A5, E1A, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5. IO-540-C1B5, C1C5, C2C, C4B5, C4B5D, C4C5, D4A5, D4B5, N1A5. O-360-A1A, A1AD, A1D, A1F, A1F6, A1F6D, A1G, A1G6, A1G6D, A1H, A1H6, A1J, A1LD, A1P, A2A, A2D, A2F, A2G, A2H, A3A, A3AD, A3D, A4A, A4AD, A4D, A4G, A4J, A4JD, A4K, A4M, A4N, A4P, A5AD, B1A, B2C, C1A, C1C, C1E, C1F, C1G, C2A, C2B, C2C, C2D, C2E, C4F, C4P, D2A, F1A6, G1A6. HO-360-C1A. LO-360-A1G6D, A1H6. HIO-360-B1A, B1B, G1A. LTO-360-A1A6D. TO-360-A1A6D. IO-360-B1B, B1BD, B1D, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, E1A, L2A, M1A, M1B. AEIO-360-B1B, B1D, B1E, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B. O-540-A4D5, B2B5, B2C5, B2C5D, B4B5, B4B5D, E4A5, E4B5, E4C5, G1A5, G2A5, H1A5, H1A5D, H1B5, H1B5D, H2A5, H2A5D, H2B5D.

Cylinder assembly part No.	Installed on engine models
	IO-540-C4B5, C4B5D, C4D5, C4D5D, D4A5, D4B5, D4C5, N1A5, N1A5D, T4A5D, T4B5, T4B5D, T4C5D, V4A5, V4A5D.
	AEIO-540-D4A5, D4B5, D4C5, D4D5.
AEL65102–NST26	IO–540–J4A5, R1A5.
	TIO–540–C1A, E1A, G1A, H1A.
AEL65102–NST38	IO-360-F1A.
	TIO-540-AA1AD, AB1AD, AB1BD, AF1A, AG1A, AK1A, C1A, C1AD, K1AD.
	LTIO-540-K1AD.
AEL65102-NST43	O–360–J2A.
	O–540–F1B5, J1A5D, J1B5D, J1C5D, J1D5D, J2A5D, J2B5D, J2C5D, J2D5D, J3A5, J3A5D, J3C5D.
	IO-540-AB1A5, W1A5, W1A5D, W3A5D,
AEL65102-NST44	O-540-L3C5D.

TABLE 1—ENGINE MODELS—Continued

The Lycoming Engines (formerly Textron Lycoming) models 320, 360, and 540 series, "Parallel Valve", reciprocating engines are

installed on, but not limited to, the aircraft listed in the following Table 2:

TABLE 2-ENGINES INSTALLED ON, BUT NOT LIMITED TO

Engine models	Installed on, but not limited to
O–320–A1A	Piper Aircraft: Tri-Pacer (PA-22 "150", PA-22S "150"), Apache (PA-23), Pawnee (PA-25). Doyn Aircraft: Doyn-Cessna (170, 170A, 170B). Mooney Aircraft: Mark (20A). Dinfia: Ranquel (1A-46). Simmering-Graz Pauker: Flamingo (SGP-M-222).
	Aviamilano: Scricciolo (P-19).
O–320–A1B	Vos Helicopter Co.: Spring Bok. Piper Aircraft: Tri-Pacer (PA-22 "150", PA-22S "150"), Apache (PA-23). Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
	S.Ó.C.A.T.A.: Horizon (Gardan).
O–320–A2A	 Piper Aircraft: Tri-Pacer (PA-22 "150", PA-22S "150"), Agriculture (PA-18A "150"), Super Cub (PA-18 "150"), Caribbean (PA-22 "150"), Pawnee (PA-25). Intermountain Mfg. Co.: Call Air Texas (A-5, A-5T). Lake Aircraft: Colonial (C-1).
	Rawdon Bros.: Rawdon (T-1, T-15, T-15D).
	Shinn Engineering: Shinn (2150–A).
	Dinfia: Ranquel (1A–46). Neiva: (1PD–5802).
	Sud: Gardan-Horizon (GY–80).
	LaVerda: Falco (F8L Series II, America).
	Malmo: Vipan (MF1-10).
	Kingsford Smith: Autocrat (SCRM–153). Aero Commander: 100.
O–320–A2B	Piper Aircraft: Tri-Pacer (PA-22 "150", PA-22S "150"), Cherokee (PA-28 "150"), Super Cub (PA-18 "150"). Champion Aircraft: Challenger (7GCA, 7GCB, 7KC), Citabria (7GCAA, 7GCRC), Agriculture (7GCBA). Beagle: Pup (150).
	Artic: Interstate S1B2.
	Robinson: R–22.
O-320-A2C	Varga: Kachina 2150A.
0-320-A2C	Robinson: R–22. Cicare: Cicare AG.
	Bellanca Aircraft: Citabria 150 (7GCAA), Citabria 150S (7GCBC).
O-320-A2D	
O–320–A3A	Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
O–320–A3B	Corben-Fettes: Globe Special (Globe GC–1B). Piper Aircraft: Apache (PA–23).
0 020 / 02	Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
	Teal II: TSC (1A2).
O–320–B1A	
	Doyn Aircraft: Doyn-Cessna (170, 170A, 170B). Malmo: Vipan (MF1–10).
O–320–B1B	
	Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
O-320-B2A	
O–320–B2B	Beagle: Airedale (D5–160).
	Fuji-Heavy Industries: Fuji (F–200).
	Uirapuru: Aerotec 122.
O–320–B2C	Robinson: R-22.

Engine models	Installed on, but not limited to
O–320–B2D	Maule: MX-7-160.
O-320-B2E	Lycon.
O–320–B3A	Piper Aircraft: Apache (PA-23 "160").
0 000 000	Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
O–320–B3B	Piper Aircraft: Apache (PA-23 "160"). Doyn Aircraft: Doyn-Cessna (170, 170A, 170B).
	Sud: Gardan (GY80–160).
O-320-C1A	Piper Aircraft: Apache (PA-23 "160").
	Riley Aircraft: Rayjay (Apache).
O-320-C1B	Piper Aircraft: Apache (PA-23 "160").
O–320–C3A O–320–C3B	Piper Aircraft: Apache (PA–23 "160"). Piper Aircraft: Apache (PA–23 "160").
O-320-D1A	Sud: Gardan (GY–80).
	Gyroflug: Speed Cancard.
0.000 045	Grob: G115.
O–320–D1F O–320–D2A	Slingsby: T67 Firefly. Piper Aircraft: Cherokee (PA–28S "160").
0-320-02A	Robin: Major (DR400–140B), Chevalier (DR–360), (R–3140).
	S.O.C.A.T.A.: Tampico TB9.
	Slingsby: T67C Firefly.
	Daetwyler: MD-3-160.
	Nash Aircraft Ltd.: Petrel. Aviolight: P66D Delta.
	General Avia: Pinguino.
O-320-D2B	Beech Aircraft: Musketeer (M-23).
0.000 001	Piper Aircraft: Cherokee (PA–28 "160").
O–320–D2J O–320–D3G	Cessna Aircraft: Skyhawk 172. Piper Aircraft: Warrior II, Cadet (PA-28-161).
O-320-E1A	Grob: G115.
O-320-E1C	M.B.B. (Messerschmitt-Boelkow-Blohm): Monsun (BO–209–B).
O-320-E1F	M.B.B.: Monsun (BO-209-B).
O–320–E2A	Piper Aircraft: Cherokee (PA–28 "140", PA–28 "150"). Robin: Major (DR–340), Sitar, Bagheera (GY–100–135).
	S.O.C.A.T.A.: Super Rallye (MS–886), Rallye Commodore (MS–892).
	Siai-Marchetti: (S-202).
	F.F.A.: Bravo (AS-202/15).
	Partenavia: Oscar (P66B), Bucker (131 APM).
	Aeromot: Paulistina P–56. Pezetel: Koliber 150.
O-320-E2C	Beech Aircraft: Musketeer III (M–23III).
	M.B.B.: Monsun (BO–209–B).
O-320-E2D	Cessna Aircraft: Cardinal (172–I, 177).
O–320–E2F O–320–E2G	M.B.B.: Monsun (BO–209–B), Wassmer Pacific (WA–51). American Aviation Corp.: Traveler.
O-320-E3D	Piper Aircraft: Cherokee (140).
	Beech Aircraft: Sport.
IO-320-B2A	Piper Aircraft: Twin Comanche (PA–30).
IO-320-B1C IO-320-B1D	Hi. Shear: Wing. Ted Smith Aircraft: Aerostar.
IO-320-C1A	Piper Aircraft: Twin Comanche (PA–30 Turbo).
IO-320-D1A	M.B.B.: Monsun (BO–209–C).
IO-320-D1B	M.B.B.: Monsun (BO-209-C).
IO-320-E1A	M.B.B.: Monsun (BO–209–C).
IO-320-E1B IO-320-E2A	Bellanca Aircraft. Champion Aircraft: Citabria.
IO-320-E2B	Bellanca Aircraft.
IO-320-F1A	CAAR Engineering: Carr Midget.
LIO-320-B1A	Piper Aircraft: Twin Comanche (PA-39).
LIO-320-C1A AIO-320-B1B	Piper Aircraft: Twin Comanche (PA-39). M.B.B.: Monsun (BO-209-C).
AEIO-320-D1B	Slingsby: T67M Firefly.
AEIO-320-D2B	Hundustan Aeronautics Ltd.: HT–2.
AEIO-320-E1A	Bellanca Aircraft.
	Champion Aircraft.
AEIO-320-E1B	Bellanca Aircraft. Champion Aircraft: Decathalon (8KCAB-CS).
AEIO-320-E2B	Bellanca Aircraft.
	Champion Aircraft: Decathalon (8KCAB).
O-320-A1A	Riley Aircraft: Riley Twin.
O–360–A1A	Beech Aircraft: Travel Air (95, B–95). Piper Aircraft: Comanche (PA–24).
	Intermountain Mfg. Co.: Call Air (A–6).

TABLE 2-ENGINES INSTALLED ON, BUT NOT LIMITED TO-Continued

Engine models	Installed on, but not limited to
	Lake Aircraft: Colonial (C-2, LA -4, -4A or -4P).
	Doyn Aircraft: Doyn-Cessna (170B, 172, 172A, 172B). Mooney Aircraft: Mark "20B" (M–20B).
	Earl Horton: Pawnee (Piper PA-25).
	Dinfia: Ranquel (1A–51). Neiva: (1PD–5901).
	Regente: (N-591).
	Wassmer: Super 4 (WA–50A), Sancy (WA–40), Baladou (WA–40), Pariou (WA–40). Sud: Gardan (GY–180).
	Bolkow: (207).
	Partenavia: Oscar (P–66). Siai-Marchetti: (S–205).
	Procaer: Picchio (F–15–A).
	S.A.A.B.: Safir (91–D). Malmo: Vipan (MF–10B).
	Aero Boero: AB–180.
	Beagle: Airedale (A–109). DeHavilland: Drover (DHA–3MK3).
	Kingsford-Smith: Bushmaster (J5–6).
O–360–A1AD	Aero Engine Service Ltd.: Victa (R–2). S.O.C.A.T.A.: Tabago TB-10.
O–360–A1D	Piper Aircraft: Comanche (PA-24).
	Lake Aircraft: Colonial (LA–4, –4A or –4P). Doyn Aircraft: Doyn-Beech (Beech 95).
	Mooney Aircraft: Master "21" (M–20E), Mark "20B", "20D", (M20B, M20C), Mooney Statesman (M–20G).
	Dinfia: Querandi (1A–45). Wassmer: (WA–50).
	Malmo: Vipan (MF1–10).
	Cessna Aircraft: Skyhawk. Doyn Aircraft: Doyn-Piper (PA-23 "160").
O-360-A1F6	Cessna Aircraft: Cardinal.
O–360–A1F6D	Cessna Aircraft: Cardinal 177. Teal III: TSC (1A3).
O-360-A1G6	Aero Commander.
O–360–A1G6D O–360–A1H6	Beech Aircraft: Duchess 76. Piper Aircraft: Seminole (PA-44).
O-360-A1LD	Wassmer: Europa WA-52.
O–360–A1P O–360–A2A	Aviat: Husky. Center Est Aeronautique: Regente (DR-253).
0 000 /	S.O.C.A.T.A.: Rallye Commodore (MS-893).
	Societe Aeronautique Normande: Mousquetaire (D-140). Bolkow: Klemm (K1-107C).
	Partenavia: Oscar (P–66).
O–360–A2D	Beagle: Husky (D5–180) (J1–U). Piper Aircraft: Comanche (PA–24), Cherokee "C" (PA–28 "180").
	Nooney Aircraft: Master "21" (M–20D), Mark "21" (M–20E).
O–360–A2E O–360–A2F	Std. Helicopter. Aero Commander: Lark (100).
	Cessna Aircraft: Cardinal.
O–360–A2G O–360–A3A	Beech Aircraft: Sport. C.A.A.R.P.S.A.N.: (M–23III).
	Societe Aeronautique Normande: Jodel (D-140C).
	Robin: Regent (DR400/180), Remorqueur (DR400/180R), R–3170. S.O.C.A.T.A.: Rallye 180GT, Sportavia Sportsman (RS–180).
	Norman Aeroplace Co.: NAC-1 Freelance.
O–360–A3AD	Nash Aircraft Ltd.: Petrel. S.O.C.A.T.A.: TB-10.
	Robin: Aiglon (R–1180T).
O–360–A4A O–360–A4D	Piper Aircraft: Cherokee "D" (PA–28 "180"). Varga: Kachina.
O–360–A4G	Beech Aircraft: Musketeer Custom III.
O–360–A4K	Grumman American: Tiger. Beech Aircraft: Sundowner 180.
O–360–A4M	Piper Aircraft: Archer II (PA-28 "18").
O–360–A4N	Valmet: PIK-23. Cessna Aircraft: 172 (Optional).
O-360-A4P	Penn Yan: Super Cub Conversion.
O–360–A5AD O–360–B2C	C. Itoh and Co.: Fuji FA–200. Seabird Aviation: SB7L.
O-360-C1A	Intermountain Mfg. Co.: Call Air (A–6).
O-360-C1E	Bellanca Aircraft: Scout (8GCBC–CS). Maule: Star Rocket MX–7–180.
0 000 011	

TABLE 2-ENGINES INSTALLED ON, BUT NOT LIMITED TO-Continued

Engine models	Installed on, but not limited to
O–360–C1G	Christen: Husky (A–1).
O-360-C2B	Hughes Tool Co.: (269A).
O–360–C2D	Hughes Tool Co.: (269A).
O–360–C2E	Hughes Tool Co.: (YHO-2HU) Military.
0.000.045	Bellanca Aircraft: Scout (8GCBC FP).
O–360–C4F O–360–C4P	Maule: MX-7-180A. Penn Yan: Super Cub Conversion.
O-360-F1A6	Cessna Aircraft: Cutlass RG.
O–360–J2A	Robinson: R22.
IO-360-B1A	Beech Aircraft: Travel-Air (B–95A).
	Doyn Aircraft: Doyn-Piper (PA-23 "200").
IO-360-B1B	Beech Aircraft: Travel-Air (B–95B). Doyn Aircraft: Doyn-Piper (PA–23 "200").
	Fuji: (FA-200).
IO-360-B1D	United Consultants: See-Bee.
IO-360-B1E	Piper Aircraft: Arrow (PA–28 "180R").
IO-360-B1F	
IO-360-B2E IO-360-B1F6	C.A.A.R.P. C.A.P.: (10). Great Lakes: Trainer.
IO-360-B1G6	American Blimp: Spector 42.
IO-360-B2F6	Great Lakes: Trainer.
LO-360-A1G6D	Beech Aircraft: Duchess.
LO-360-A1H6	Piper Aircraft: Seminole (PA-44).
IO-360-E1A	T.R. Smith Aircraft: Aerostar.
IO-360-L2A IO-360-M1A	Cessna Aircraft: Skyhawk C–172. Diamond Aircraft: DA–40.
IO-360-M1B	Vans Aircraft: RV6, RV7, RV8.
	Lancair: 360.
AEIO-360-B1F	F.F.A.: Bravo (200).
	Grob: G115/Sport-Acro.
AEIO-360-B1G6 AEIO-360-B2F	Great Lakes. Mundry: CAP-10.
AEIO-360-B4A	Pitts: S–1S.
AEIO-360-H1A	Bellanca Aircraft: Super Decathalon (8KCAB–180).
AEIO-360-H1B	American Champion: Super Decathalon.
VO-360-A1A	Brantly Hynes Helicopter: (B–2).
VO–360–A1B VO–360–B1A	Brantly Hynes Helicopter: (B–2, B2–A). Military (YHO–3BR). Brantly Hynes Helicopter: (B–2, B2–A).
IVO-360-A1A	Brantly Hynes Helicopter: (B2–B).
HO-360-B1A	Hughés Tool Co.: (269A).
HO-360-B1B	Hughes Tool Co.: (269A).
HO–360–C1A HIO–360–B1A	Schweizer: (300C).
HIO-360-B1B	Hughes Tool Co.: Military (269–A–1), (TH–55A). Hughes Tool Co.: (269A).
HIO-360-G1A	Schweizer: (CB).
O–540–A1A	Rhein-Flugzeugbau: (RF-1).
O–540–A1A5	Piper Aircraft: Comanche (PA–24 "180").
	Helio: Military (H–250).
O–540–A1B5	Yoeman Aviation: (YA–1). Piper Aircraft: Aztec (PA–23 "250"), Comanche (PA–24 "250").
O-540-A1C5	Piper Aircraft: Comanche (PA-24 "250").
O–540–A1D	Found Bros.: (FBA–2C).
	Dornier: (DO-28-B1).
O–540–A1D5	Piper Aircraft: Aztec (PA–23 "250"), Comanche (PA–24 "250"), Military Aztec (U–11A).
O–540–A2B	Dornier: (DO–28). Aero Commander: (500).
0 040 ALD	Mid-States Mfg. Co.: Twin Courier (H–500), (U–5).
O-540-A3D5	Piper Aircraft: Navy Aztec (PA-23 "250").
O–540–B1A5	Piper Aircraft: Apache (PA–23 "235").
O–540–B1B5	Piper Aircraft: Comanche (PA-24 "250").
O–540–B1D5	Doyn Aircraft: Doyn-Piper (PA-24 "250"). Wassmer: (WA-421).
O-540-B1D5	Piper Aircraft: Pawnee (PA–25 "235"), Cherokee (PA–28 "235"), Aztec (PA–23 "235").
0 040 DED0	Intermountain Mfg. Co.: Call Air (A–9).
	Rawdon Bros.: Rawdon (T-1).
.	S.O.C.A.T.A.: Rallye 235CA.
O-540-B2C5	Piper Aircraft: Pawnee (PA-25 "235").
O–540–B4B5	Piper Aircraft: Cherokee (PA-28 "235"). Embraer: Corioca (EMB-710).
	S.O.C.A.T.A.: Rallye 235GT, Rallye 235C.
	Maule: Star Rocket (MX–7–235), Super Rocket (M–6–235), Super Std. Rocket (M–7–235).
O–540–E4A5	Piper Aircraft: Comanche (PA-24 "260").

TABLE 2-ENGINES INSTALLED ON, BUT NOT LIMITED TO-Continued

Engine models	Installed on, but not limited to
	Aviamilano: Flamingo (F–250).
O 540 E4P5	Siai-Marchetti: (SF–260), (SF–208).
O–540–E4B5	Britten-Norman: (BN–2). Piper Aircraft: Cherokee Six (PA–32 "260").
O-540-E4C5	Pilatus Britten-Norman: Islander (BN-2A-26), Islander (BN-2A-27), Islander II (BN-2B-26), Islander (BN-2A-21), Trislander (BN-2A-Mark III-2).
O-540-F1B5	Omega Aircraft: (BS–12D1). Robinson: (R–44).
O–540–G1A5	Piper Aircraft: Pawnee (PA-25 "260").
O–540–H1B5D	Aero Boero: 260.
O–540–H2A5	Embraer: Impanema "AG". Gippsland: GA–200.
O-540-H2B5D	Aero Boero: 260.
O–540–J1A5D	Maule: Star Rocket (MX–7–235), Super Rocket (M–6–235), Super Std. Rocket (M–7–235).
O–540–J3A5	Robin: R-3000/235.
O-540-J3A5D	Piper Aircraft: Dakota (PA-28-236).
O-540-J3C5D	Cessna Aircraft: Skylane RG.
0–540–L3C5D	Cessna Aircraft: TR-182, Turbo Skylane RG.
IO-540-C1B5 IO-540-C1C5	Piper Aircraft: Aztec B (PA–23 "250"), Comanche (PA–24 "250"). Riley Aircraft: Turbo-Rocket.
IO-540-C4B5	Piper Aircraft: Aztec C (PA–23 "250"), Aztec F.
10 340 0403	Wassmer: (WA4–21).
	Avions Pierre Robin: (HR100/250).
	Bellanca Aircraft: Aries T–250.
	Aerofab: Renegade 250.
IO-540-C4D5	S.O.C.A.T.A.: ŤB–20.
IO-540-C4D5D	S.O.C.A.T.A.: Trinidad TB–20.
IO-540-D4A5	Piper Aircraft: Comanche (PA–24 "260").
	Siai-Marchetti: (SF-260).
IO-540-D4B5	Cerva: (CE-43 Guepard).
IO–540–J4A5 IO–540–R1A5	Piper Aircraft: Aztec (PA–23 "250"). Piper Aircraft: Comanche (PA–24).
IO-540-T4A5D	General Aviation: Model 114.
IO-540-T4B5	Commander: 114B.
IO-540-T4B5D	Rockwell: 114.
IO-540-T4C5D	Lake Aircraft: Seawolf.
IO-540-V4A5	Maule: MT–7–260, M–7–260.
	Aircraft Manufacturing Factory.
IO-540-V4A5D	Brooklands: Scoutmaster.
IO-540-W1A5	Maule: MX-7-235, MT-7-235, M7-235.
IO-540-W1A5D	Maule: Star Rocket (MX-7-235), Super Rocket (M-6-235), Super Std. Rocket (M-7-235).
IO-540-W3A5D	Schweizer: Power Glider.
AEIO-540-D4A5	Christen: Pitts (S–2S, S–2B). Siai-Marchetti: SF–260.
	H.A.L.: HPT–32.
	Slingsby: Firefly T3A.
AEIO-540-D4B5	Moravan, Zlin-50L.
	H.A.L.: HPT–32.
AEIO-540-D4D5	Burkhart Grob: Grob G, 115T Aero.
TIO-540-C1A	Piper Aircraft: Turbo Aztec (PA-23-250).
TIO-540-K1AD	Piper Aircraft.
TIO-540-AA1AD	Aerofab Inc.: Turbo Renegade (270).
TIO-540-AB1AD	S.O.C.A.T.A.: Trinidad TC TB-21.
TIO-540-AB1BD	Schweizer.
TIO-540-AF1A	Mooney Aircraft: "TLS" M20M.
TIO-540-AG1A TIO-540-AK1A	Commander Aircraft: 114TC. Cessna Aircraft: Turbo Skylane T182T.
LTIO-540-K1AD	Piper Aircraft.

TABLE 2-ENGINES INSTALLED ON, BUT NOT LIMITED TO-Continued

Unsafe Condition

(e) This AD results from reports of 10 additional cylinder head separations since issuing AD 2008–19–05, on cylinder S/Ns not listed in that AD. We are issuing this AD to prevent loss of engine power due to cracks at the head-to-barrel interface in the cylinder assemblies and possible engine failure caused by separation of a cylinder head, which could result in loss of control of the aircraft.

Compliance

(f) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

Engines Overhauled or Cylinder Assemblies Replaced Since New

(g) If your engine was overhauled or had a cylinder assembly replaced since new, do the following:

(1) Before further flight, inspect the maintenance records and engine logbook to determine if the overhaul or repair facility installed ECi cylinder assemblies, P/N AEL65102, with cylinder head, PN AEL85099, S/N 1138-02 through S/N 35171-22, or S/N 35239-01 through S/N 42179-30, in your engine.

(2) If your cylinder assemblies are not ECi. P/N AEL65102, no further action is required. (3) If your cylinder assemblies are ECi, P/

N AEL65102, but the S/N is not listed in this AD, no further action is required.

(4) If the cylinder assemblies are ECi. P/N AEL65102, and if the S/N is listed in this AD, do the following:

Group "A" Cylinder Assemblies; S/N 1138-02 Through S/N 35171-22

(i) For Group "A" cylinder assemblies: (A) Perform an initial visual inspection as specified in paragraphs (h) through (i) of this AD, and an initial compression test as specified in paragraphs (j) through (m) of this AD, within the next 10 operating hours timein-service (TIS), if the cylinder assembly has 350 or more operating hours TIS on the effective date of this AD, but fewer than 2,000 operating hours TIS.

(B) Perform an initial visual inspection as specified in paragraphs (h) through (i) of this AD, and an initial compression test as specified in paragraphs (j) through (m) of this AD, within the next 10 operating hours TIS, or before exceeding 350 operating hours TIS, whichever occurs later, if the cylinder assembly has fewer than 350 operating hours TIS on the effective date of this AD.

(C) Replace cylinder assemblies installed in helicopter engines within the next 25 operating hours TIS after the effective date of this AD if the cylinder assembly has 1,500 operating hours TIS or more on the effective date of this AD.

(D) Replace cylinder assemblies installed in airplane engines within the next 25 operating hours TIS after the effective date of this AD if the cylinder assembly has 2,000 operating hours TIS or more on the effective date of this AD.

(E) Perform repetitive visual inspections as specified in paragraphs (h) through (i) of this AD, and repetitive compression tests as specified in paragraphs (j) through (m) of this AD, within every 50 operating hours TIS.

(F) Replace cylinder assemblies installed in helicopter engines that pass the visual inspections and compression tests, no later than 1,500 operating hours TIS after the effective date of this AD.

(G) Replace cylinder assemblies installed in airplane engines that pass the visual inspections and compression tests, no later than 2,000 operating hours TIS after the effective date of this AD.

Group "B" Cylinder Assemblies; S/N 35239-01 through S/N 42179-30

(ii) For Group "B" cylinder assemblies: (A) Perform an initial visual inspection as specified in paragraphs (h) through (i) of this AD, and initial compression test as specified in paragraphs (j) through (l) of this AD, within the next 10 operating hours TIS.

(B) Replace the cylinder assembly within the next 25 operating hours TIS after the effective date of this AD if the cylinder assembly has 350 or more operating hours TIS on the effective date of this AD.

(C) Replace cylinder assemblies that pass the initial visual inspections and

compression tests, before exceeding 350 operating hours TIS after the effective date of this AD.

Visual Inspection

(h) Visually inspect each cylinder head around the exhaust valve side for cracks or any signs of black or white residue of combustion leakage from cracks.

(i) Replace cracked cylinder assemblies before further flight.

Cylinder Assembly Compression Test

(j) Perform a standard cylinder differential compression test.

(k) During the compression test, if the cylinder pressure gauge reads below 70 pounds-per-square-inch, apply a water and soap solution to the side of the leaking cylinder, near the head-to-barrel interface.

(l) Replace the cylinder assembly before further flight if air leakage and bubbles are observed on the side of the cylinder assembly, near the head-to-barrel interface.

(m) For Group "A" cylinder assemblies only, repair or replace the engine cylinder assembly before further flight if the cause of the low gauge reading in paragraph (k) of this AD is from leaking intake or exhaust valves, or from leaking piston rings.

Prohibition of Group "B" ECi Cylinder Assemblies Affected by This AD

(n) After the effective date of this AD, do not install any Group "B" ECi cylinder assembly, P/N AEL65102, onto any engine and do not attempt to repair or reuse Group "B" cylinder assemblies.

Alternative Methods of Compliance

(o) The Manager, Special Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

Special Flight Permits

(p) Under 14 CFR 39.23, we will not approve special flight permits for this AD for engines that have failed the visual inspection or the cylinder assembly compression test required by this AD.

Related Information

(q) Contact Peter W. Hakala, Aerospace Engineer, Special Certification Office, FAA, Rotorcraft Directorate, 2601 Meacham Blvd., Fort Worth, TX 76193; e-mail: peter.w.hakala@faa.gov; telephone (817) 222-5145; fax (817) 222-5785, for more information about this AD.

Issued in Burlington, Massachusetts, on December 22, 2009.

Peter A. White,

Assistant Manager, Engine and Propeller Directorate, Aircraft Certification Service. [FR Doc. E9-30732 Filed 12-30-09; 8:45 am] BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2009-0328; Directorate Identifier 2008–NE–44–AD; Amendment 39– 16103; AD 2009-24-11]

RIN 2120-AA64

Airworthiness Directives; General Electric Company (GE) CF34-1A, CF34-3A, and CF34-3B Series **Turbofan Engines; Delay of Effective** Date

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT). ACTION: Final rule; delay of effective date.

SUMMARY: The FAA is delaying the effective date of the final rule airworthiness directive (AD) 2009-24-11, which published in the Federal **Register**, for an additional 30 days, from January 4, 2010 to February 3, 2010. The FAA is delaying the effective date to allow us a sufficient amount of time to make corrections to the compliance text of the final rule.

DATES: The effective date for the final rule published in the Federal Register on November 30, 2009 (74 FR 62481) is delayed until February 3, 2010.

FOR FURTHER INFORMATION CONTACT: John Frost, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: *john.frost@faa.gov;* telephone (781) 238-7756; fax (781) 238-7199.

SUPPLEMENTARY INFORMATION: On November 30, 2009 (74 FR 62481), we published a final rule AD, FR Doc. E9-28236, in the Federal Register. That AD applies to GE CF34-1A, CF34-3A, and CF34–3B series turbofan engines. We are delaying the effective date to allow us a sufficient amount of time to make corrections to the compliance text of the final rule. Since AD 2009-24-11 was issued, we discovered that when we recodified the compliance section as part of our response to a comment received on the proposed AD, we inadvertently left out of the AD certain fan blade effectivity information from paragraphs (f) and (g) and (j). Paragraphs (f) and (g) are missing information on fan blades, P/Ns 6018T30P14 or 4923T56G08, that have any fan blade S/Ns listed in Appendix A of General Electric Aircraft Engines (GEAE) Service Bulletin (SB) No. CF34-AL S/B 72-0245, Revision 01, dated July 30, 2008. Also, paragraph (j) is missing