



Introduction

This Special Airworthiness Information Bulletin (SAIB) alerts you, owners and operators of aircraft equipped with a turbocharged engine that includes a **turbocharger or related control components overhauled by Statesville AeroTech Services** of potential discrepancies with those components. These components **might also be included in overhauled turbocharged engines distributed by Triad Aviation, Incorporated.** These potentially discrepant parts were processed by the noted facilities between January 2005 and June 22, 2007, when Statesville AeroTech voluntarily surrendered their repair station certificate. Affected aircraft include, but are not limited to, Beechcraft A and B36TC, 56TC, A56TC, 58P, 58PA, 58TC, 58TCA, 60, A60 and B60, Cessna T182 series, T188, T206 series, T207 series, P210 series, T210 series, T303, T310 series, T320 series, 335, T and P337 series, 340 series, and 400 series, Columbia 400, Commander 112TCA and 114TC, Twin Commander 685 and 700, Lancair IV and IVP, Mooney M20K, M22, and M20M, and Piper PA28-201T, PA31 series, PA32-301T, PA32RT-300T, PA34-200T and 220T, PA44-180T, and PA46-310P and 350P.

Background

Routine surveillance of Statesville AeroTech Services by the cognizant Flight Standards District Office, in June, 2007, revealed that turbochargers and related control components might have been returned to service with inappropriate or incomplete overhaul processes. These processes include dimensional inspection, component balance, bench testing/calibration, and final inspection. While the FAA is unaware of any safety related issues with the components in question, functional and durability issues with the items might exist. These issues might include, but are not limited to, inability to achieve rated critical altitude or engine performance, inability to achieve reliable and repeatable manifold pressure settings, sluggish and/or unstable turbocharger operation, high oil consumption or leakage, and inability to meet expected component life. The components in question were returned to service either directly to operators or maintainers of aircraft/engines, or were supplied on engines overhauled by Triad Aviation, Incorporated. A partial list of components processed during this period is provided in Table 1 of this SAIB. This list, however, is not comprehensive and does not list all components processed between January 2005 and June 22, 2007. The potentially discrepant parts may be identified with Kelly Aerospace Power Systems, Garrett Airesearch, Rotomaster, Rajay, Teledyne Continental Motors, Textron Lycoming, or Cessna Aircraft part numbers or data plates.

Recommendations

The FAA recommends that owners/operators be aware that turbochargers and related controls supplied by Statesville AeroTech Services during this time period may present operational and service issues. It is recommended that these components be examined during the next 100-hour or annual inspection, whichever occurs first, for their adjustment, integrity, and function. Functional testing methods might be described in the applicable engine or aircraft maintenance manuals, but an acceptable method is provided in Kelly Aerospace Power Systems Service Bulletin No. 23. A copy of

this service bulletin may be downloaded at http://www.kellyaerospace.com/service_pdf/SB-023.pdf. If there is any question in regard to the airworthiness of the components, they should be replaced with serviceable assemblies.

For Further Information Contact

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Table 1 - Partial List of Components Processed Through Statesville AeroTech Services

Work Order	Part Name	Part Number	Serial Number	Work Order Date
2040	PSI Controller	470688-9007	KLO131	6/17/2005
2040	Waste-Gate	470908-9011	KIO148	6/17/2005
3037	Waste-Gate	470908-9011	HCO193	5/18/2006
3046	Waste-Gate	470818-9003	EAO12175	5/20/2006
3069	Turbocharger	406610-9022	AA292	8/14/2006
3069	VAR Controller	C165004-0603	DKI10365	8/14/2006
3069	Overboost Valve	C482002-0107	GKO108	8/14/2006
3069	Waste-Gate	C165006-0304	GJO106	8/14/2006
3071	VAR Controller	C165004-0603	DKI10365	no date
3071	Overboost Valve	C482002-0107	GKO108	no date
3071	Waste-Gate	C165006-0304	GJO106	no date
3091	Turbocharger	635630	RER0194R	11/7/2006
3092	Turbocharger	635630	1EO101	10/26/2006
3101	Waste-Gate	633388-10	IDO159	10/26/2006
3101	PSI Controller	C165000-0106	IB0128	10/26/2006
3101	Overboost Valve	470944-15	IC0270	10/26/2006
3107	Turbocharger	406610-9025	FNO0616	11/20/2006
3110	Turbocharger	642721	89531	12/5/2006
4001	Turbocharger	407910-9001	DFN00157	1/7/2007
4001	Waste-Gate	470908-9012	XLO12265	1/7/2007
4001	Overboost Valve	470944-9015	GAO141	1/7/2007
4001	VAR Controller	470836-9018	DHO10421	1/7/2007
4002	Turbocharger	407810-9001	DCN00172	1/7/2007
4002	Waste-Gate	470908-9012	HDR0123	1/7/2007

Work Order	Part Name	Part Number	Serial Number	Work Order Date
4002	Overboost Valve	470944-9015	FFO160	1/7/2007
4002	VAR Controller	470836-9018	DLO11664	1/7/2007
4003	Turbocharger	632729-11	BBO12993	1/20/2007
4004	Waste-Gate	5050154-15	EDO13550	1/22/2007
4004	Dual Controller	C165001-010	DFO8501	1/22/2007
4005	Turbocharger	406610-25	ZDO12937	1/27/2007
4006	Waste-Gate	470780-16	HJO122	1/23/2007
4006	Dual Controller	470948-1	FIO00216	1/23/2007
4007	Turbocharger	406610-25	IDR9571	2/13/2007
4008	VAR Controller	LW16060	HHO187	2/7/2007
4008	VAR Controller	LW16060	HH0160	2/7/2007
4009	VAR Controller	470836-20	JLR0188	2/12/2007
4010	Turbocharger	C295001-0304	HKO118	2/13/2007
4011	Turbocharger	600573-0000	TRI003046	4/27/2007
4011	Overboost Valve	641404-1	GIN00081	4/27/2007
4012	Turbocharger	C295001-0101	IB0216	2/28/2007
4013	Turbocharger	646396-00	TS1098009	2/21/2007
4014	Turbocharger	600573-0000	48829	2/18/2007
4015	Waste-Gate	C165006-0107	FDO145	2/27/2007
4016	Waste-Gate	C165006-0105	TGRO120	2/28/2007
4016	Overboost Valve	C482002-0108	JFO141	2/28/2007
4016	VAR Controller	C165004-0502	JIO165	2/28/2007
4017	Waste-Gate	636188-17	DAN6575	3/2/2007
4017	VAR Controller	646318-4	CJN5554	3/2/2007
4019	Turbocharger	LW12463	HDL00733	3/19/2007
4020	Turbocharger	406610-9025	HJL00437	3/19/2007
4021	Turbocharger	406610-9025	XLO19360	2/23/2007
4021	Waste-Gate	470780-9014	TJR0105	2/23/2007
4021	Overboost Valve	470930-1	2665	2/23/2007
4021	Fixed Controller	470688-5	JAR0118	2/23/2007
4021	Ratio Controller	470822-1	IGR0109	2/23/2007
4022	Waste-Gate	470954-0001	EDN13633	3/29/2007
4023	Turbocharger	406610-9025	ZFO24256	3/28/2007

Work Order	Part Name	Part Number	Serial Number	Work Order Date
4023	Waste-Gate	470780-9014	JR0205	3/28/2007
4023	Overboost Valve	470930-1	FB0155	3/28/2007
4023	Fixed Controller	470688-5	GER0118	3/28/2007
4023	Ratio Controller	470822-1	857	3/28/2007
4026	Waste-Gate	470780-16	KCR0139	4/11/2007
4026	Dual Controller	470782-9003	VK-L0103	4/11/2007
4026	Ratio Controller	470822-1	EER0180	4/11/2007
4026	PR Relief Valve	470930-9004	AJO31510	4/11/2007
4028	Turbocharger	LW13310	IKR0116	4/25/2007
4028	Waste-Gate	LW10759-85	EJO15881	4/25/2007
4028	Overboost Valve	LW14445-2-85	1CO114	4/25/2007
4028	VAR Controller	LW14297	WHL1215	4/25/2007
4032	Turbocharger	406610-5	GIO157	5/23/2007
4033	Waste-Gate	470954-3	KKO128	5/9/2007
4033	Waste-Gate	470954-3	SATA709	5/9/2007
4035	Turbocharger	LW13897	KBP0101	5/24/2007
4035	Waste-Gate	LW12960	FJO112	5/24/2007
4035	Overboost Valve	LW14445-6	HHO108	5/24/2007
4035	VAR Controller	LW16060	HHO157	5/24/2007
4037	Turbocharger	406610-9026	CLN00043	5/23/2007
4037	Overboost Valve	LW14445-10L	WFL0101	5/23/2007
4038	Turbocharger	C295001-6262	CLN00043	5/23/2007
4038	Waste-Gate	C165006-0114	CGO-3929	5/23/2007
4038	Overboost Valve	470944-9003	YER0163	5/23/2007
4038	Fixed Controller	C165004-0503	JIO139	5/23/2007
4039	Turbocharger	646396D	TRI204042	6/5/2007
4039	Overboost Valve	481028-9001	HKO00242	6/5/2007
4040	Turbocharger	646396	210200	5/30/2007
4040	Overboost Valve	643511-1	8LN-1084	5/20/2007
4041	Waste-Gate	470954-1	EHN15463	6/7/2007
4041	Overboost Valve	470944-29	EHN15050	6/7/2007
4041	Sloped controller	481058-8	EGN14826	6/7/2007