AIRCRAFT TECHNICAL LOGS

Section 3. **ENGINE**

1. Approving National Aviation 3. Form Tracking Number **AUTHORISED RELEASE CERTIFICATE Authority / Country** laufende Formularnummer famehmigende nationale Luftfahrtbehörde / Staat EASA FORM 1 E3175/ 2007 Luftfahrt-Bundesamt / Germany Thielert Aircraft Engines GmbH 5.Work Order / Contract / Invoice 4. Approved Organisation Name and Address: Platanenstraße 14, D-09350 Lichtenstein Arbeitsauftrag / Vertrag / Lieferschein * (+49) 37204 696 0 Fax (+49) 37204 696 50 FA 3706508 Carriel miligung durch das Luftfahrt-Bundesamt Zur Ausstellung dieser Bescheinigung berechtigter Betriebe 7. Description 9. Eliaibility* 11. Serial- / Batch-12. Status / Work 6. Item 8. Part No. 10. Qty No. Zustand / Arbeiten Lfd. Bauteil-Nr. Beschreibung Verwendbarkelt* Anzahl Werk- / Los-Nr. Nr. / Position 1 Aircraft piston engine TAE 125-02-99 05-7200-K000301 DIAMOND DA 42; 28V 02-02-01662 manufactured/ hergestellt (0003)-(01) 13. Remarks TCDS EASA.E.055-Issue 05 - 11 May 2007 Engines includes modification: as listed in engine logbook up to date 14.06.2007 Bemerkungen 14. Certifies that the items identified above were manufactured in conformity to: 19. Part -145A.50 Release to Service Other Regulation specified in block 13 Es wird bescheinigt, dass die oben aufgeführten Artikel hergestellt wurden in Übereinstimmung mit Freigabebescheinigung gemäß Teil-145A.50 Freigabebescheinigung gem. in Feld 13 aufgeführter Vorschrift X approved design data and are in condition for safe operation Certifies that unless otherwise specified in block 13, the work specified in block 12 and described in block 13, was accomplished in accordance with Part - 145 and in repect to that work the items are considered ready for release to service genehmigten Entwicklungsunterlagen und in einem Zustand für einen sicheren Betrieb sind Es wird bescholnigt, dass, wenn in Feld 13 nichts anderes festgelegt ist, die in Feld 12 aufgeführten und in Feld 13 beschriebenen Arbeiten in non-approved design data specified in block 13 Übereinstimmung mit Teil - 145 durchgeführt wurden, und dass die Artikel im Hinblick auf diese Arbeiten als geeignet für die Freigabe zum Betrieb in Feld 13 aufgeführten nicht genehmigten Entwicklungsunterlagen 15. Authorised Signature 16. Approval / Authorisation Number 20. Authorised Signature 21. Certificate / Approveal Ref No. Unterschrift der berechtigten Person Genehmigungs-/Berechtigungsnummer Unterschrift der berechtigten Person Bescheinigungs-/ Genehmigungsnummer DE.21G.0142 17. Name 18. Date (d/m/y) 22. Name 23. Date (d/m/y) Datum (Tag/Monat/Jahr) Name Datum (Tag/Monat/Jahr) Markus Becker 13/06/2007 FASA Form 1- Issue EASA Formblatt 1 - Ausgabe 1

* Installer must cross - check eligibility with applicable technical data

Der Verwender/einbauende Betrieb ist verpflichtet, die Verwendbarkeit anhand der geltenden technischen Unterlagen zu überprüfen. AUTORISIERTE FREIGABEBESCHEINIGUNG -EASA FORMBLATT!

AUTHORIZED RELEASE CERTIFICATE- EASA FORM 1 USER / INSTALLER RESPONSIBILITIES

Anmerkung

- 1. Es wird ausdrücklich darauf hingewiesen, dass das Vorhandensein dieser Bescheinigung allein nicht automatisch zum Einbau von Teilen/Komponenten/Baugruppen berechtigt.

VERANTWORTUNG DES VERWENDERS/EINBAUENDEN BETRIEBES

- 2. Wenn der Verwender/einbauende Betrieb in Übereinstimmung mit den nationalen Vorschriften einer anderen als der in Feld 1 genannten Luftfahrtbehörde arbeitet, hat er unbedingt sicherzustellen, dass seine Luftfahrtbehörde Teile/Komponenten/Baugruppen, die von der in Feld 1 genannten Luftfahrtbehörde genehmigt sind, akzeptiert.
- 3. Die Erklärung in Feld 14 und 19 stellen keine Freigabe des Einbaus dar. In jedem Einzelfall müssen die Instandhaltungsaufzeichnungen des betroffenen Luftfahrzeugs einen durch den Verwender/einbauenden Betrieb ausgestellten Freigabevermerk für den Einbau entsprechend den nationalen Vorschriften enthalten, bevor das Luftfahrzeug den Flugbetrieb aufnehmen darf.

Note:

- It is important to understand that the existence of the document alone does not automatically constitute authority to install the part/compenent/assembly
- 2. Where the user/installer works in accordance with the national regulation of an Airworthiness Authority different from the Airworthiness Authority specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accept parts/compenents/assemblies from the Airworthiness Authority specified in block 1.
- Statements 14 and 19 do not constitute installation certification. In all cases the aircraft maintenance record must contain an insallation certification issued in accordance with the national regulations by the user /installer before the aircraft may be flown

ENGINE LOG

1.	Make	THIELERT AIRCRAFT ENGINES GMBH
2.	Model	TAE 125-02-99
3.	Specification	E00069EN
4.	Manufacturer's Serial Number	02-02-01662
5.	Date of Manufacture	
6.	Aircraft Inspection Cycle	

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS,
	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET
BROUGHT FORWARD		—	0	Ø	LHENGINE INSTALLED NEW ON DA 42 S/r
					Engine installation inspected I.A.W. Diamond Aircraft Industries Inc.
					CIG.001 DA 42
					Engine Break-in performed by Thielert Aircraft Engines GmbH. Engine service with 6 qts. of Aero Shell Oil Diesel 10W-40 eng. oil.
					Five-hour Engine Check (TAE) carried out I.A.W. Doc No. 7.02.01,
	-		-		DA 42 AMM and applicable Diamond Aircraft Industries Inc. released Work Orders
		1			DATE INSPECTOR DA
					JUL 2 5 2007 Q 42
					FLIGHT TEST COMPLETED
				1	PEIGHT TEST COMPLETED
PT 14 2007			5.	8	HOURS BROUGHT FORWARD
413.00	3.555	21,4-2	7.00	4 3 9 9	
			10.5		
Bombardier	Ce	ssna	Di	amond	Honeywell Hawker/Beech
					GALVIN
					World-Class People. First-Class Service FAA Repair Station FAA Repair Station
•	run and Replace good. S Complie Leak ch Perform noted. reference adjustm	leak checked both er safetied between the control of the control o	ck, Ground agine fuel filter both filter b	run norm Iters with wl caps. Bulletin r 100-hou in and ex engine tui 0 liter Er	ine Operation and Maintenance Manual Chapter 02-02. Performed ground hal and no leaks noted at this time. new. Purged the filters and lines of air and performed a leak check, check Work completed with reference to Diamond DA42 AMM Chap.28. TM TAE 125-1004 P1 by removing the small o-ring of the oil filter module. For inspection. It is tended data download from the FADEC on both engines, no discrepancies rebocharger waste gate rigging as advised by Diamond Technical Support angine Repair Manual Chapter 72-40. The rigging was correct with no
	Verified P1, and	that EAS Diamond	A EAD No. I Service In	2008-002 formation	27-E on Thielert HPP-Fuel Rail, Thielert Service Bulletin TM TAE 125-1005 No. SI 42-063/1 is not applicable to the TAE 2.0 engines installed.
Regulatio	ns, and a	re approv	entified aboved for retu Nork Orde	rn to serv	repaired and/or inspected in accordance with current Federal Aviation vice with respect to work performed. Pertinent details of this work are on file
Signature	6	H	Kr	ver	005 Date FEB 25, 2008
				6987 Pe	Galvin Flying Services, Inc. erimeter Road, Seattle, WA 98108. Repair Station HUNR846E
					CARRIED FORWARD
TAL THIS PAGE					
TOTAL FROM REVIOUS SUMMARY					
TOTAL					

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		NUMBER
42.AC077	7	Q 42
		1
	73	(DA)
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		20-20
		4. T. C. M. B. M. C.
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		and the second s
SPANNEY PERFECT STATES		

MAXIMUM HOURS BETWEEN OVERHAULS HOURS.

ENGINE SERVICE AND

DATE	TIME	RUN		SINCE	INSTALLATIONS, INSPECTIONS,
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPL
BROUGHT FORWARD	All the second s				
Bombardier	Cess	sna	Dia	mond	Honeywell Hawker/Beech
					World-Class People, First-Class Service PAA Repair Station HUNR846E
935YM Left #1 E LEFT EN		AE 2.0 s	n 02-02-0	1662 E	ETT: 106.6 Tach:106.6 ACTT: 106.6 March 11, 2008
	line, P/N support b installatio compliand No. 2008- ertify that th	05-7313-I racket P/I n hardwar ce with thi -0027-E a	CO01301, N NM-000 e provided s S.B. is c and Diamo	from high 0-019480 d by Thiel- ompliance nd SI 42-0 above wel	tin TM TAE 125-1005 P1, Rev.2. by installation of a new high pressure fuel gh pressure pump to fuel rail, with a stand off P/N 05-7231-K004201 and 801, in accordance with manufacturers provided instructions. All parts and elert. Run up, leak and functional checks good. (AR12872) Verified that ce with AD2008-06-52E per paragraph (e) and (f). (Also note EASA EAD 2-063/1) ere repaired and/or inspected in accordance with current Federal Aviation vice with respect to work performed. Pertinent details of this work are on file
at the Re	pair Station			No. 1968	582
Signature	San	-8	ron		005 Date MARCH 11, 2 608
				6987 Pe	Galvin Flying Services, Inc. erimeter Road, Seattle, WA 98108. Repair Station HUNR346E
					Nepall Station Homosoc
Bombardier	Cess	sna	Dia	mond	Honeywell Hawker/Beech
					World-Class People, First-Class Service FAA Repair Station HUNR846E
N935YM Thielert TAE 1	25-02-99	Diamond I Eng. SN: 0	OA 42 2-02-01662	2	AC SN: 42.AC077 ACTT: 176.2 October 10, 2008 Eng. TSN: 176.2
LEFT ENGINE					
Inspection Ite					
1. Com	plied with klist.	Annual I	nspection	IAW FA	FAR 91.409(a) and FAR43 Appendix (D) using Galvin Flying Services
General Maint	enance				
2. Rem	oved and encing Cen	replaced turion 2.0	turbochar	ger comp ter 72-40-	installed new support bracket PN; 52-7520-H005401 referencing DA42 MM ipressor induction rubber stand-off with a new PN; NM-0000-0159101 D-05.
IVIIVA	Jiiaptei 75-	.00-00.			oration support damper with new PN; NM-0000-0024601 referencing DA42
and/or cur	rent Federa	al Aviation	Regulation	ons, and a	above were inspected in accordance with an Annual/100 Hour Inspection, are approved for return to service. Pertinent details of this work are on file 08.
Signed	Jac	2-191	2100		Date 10/20/2008
				6987 Peri	Galvin Flying Services, Inc. rimeter Road, Seattle, WA 98108. Repair Station HUNR846E

TOTAL SINCE MFG.

ENTRIES. DRAW A C		TMENTS, MODIFICATION OF ANY UNUSED LINES IN C		SIGNATURE	LICENC
V.					LOUGE !
Maintena Ran engir sample. In oil filter, S000101. Drained of filter from oil. Ran e Removed Complied clutch as K006001 chapters chapter 6 Performe	d 100 hour/annual inspence sections 6.2.2 and 6 he. Removed L/H cowlinstalled engine oil drain no contaminants found. Serviced engine with 6 he gearbox oil and took 1 Thielert 100 hour kit 1 ngine. Leak check and 1 propeller for other mal with AD 2008-22-23 sembly P/N 05-7211-F S/N 21185. Clutch an 72-10-01 and 72-10-02 d 100-hour check of the	ection and servicing of engals. 2. Ing. Removed engine oil of a plug and safe tied. Removed. Installed new engine oil of quarts of Aeroshell Diese sample. Removed old get P/N 05-9900-S000101. Set operational check good at a intenance. Removed gear by replacing clutches per K00304 S/N: 2013 and digearbox removal and research. Reinstalled propeller were proportional pressure research.	drain plug. Drained old en oved engine oil filter and filter from Thielert 100 let 10W40 oil. earbox oil filter and installerviced gearbox with She to this time. Thielert TM TAE 125-installed a new clutch replacement was IAW Cith new o-ring and lock	ngine oil and took cut open and inspected Hour kit P/N 05-9900- led new gearbox oil Il Getriebeol 75W-90 ccess to clutch assembly. 1006, Rev. 1. Removed assembly P/N 05-7211- enturion 2.0 R.M02-02 nuts per Diamond M.M.	gine
10.05. Va	alve functioned within l	imits.	**************************************	,	
Signature	: adu Ben		A&P 538984858		
	ed Annual IAW FAR			78.3 Tach & TT Engine Operation & Maintenance	Manual
Complet sections I certify	that this engine has been y condition.	91.409(a), FAR43 Apprecked through this date.	endix (D), and Thielert	Operation & Maintenance	
Complet sections I certify airworth	that this engine has been y condition.	91.409(a), FAR43 Apprecked through this date.	endix (D), and Thielert e with an Annual inspect	Operation & Maintenance	
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Complet sections I certify airworth	that this engine has been y condition.	91.409(a), FAR43 Apprecked through this date.	endix (D), and Thielert e with an Annual inspect	Operation & Maintenance	

ENGINE SERVICE AND

DATE	TIMER	אע	TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS,		
DA	HRS. MIN.		HRS. MIN.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLI		
BROUGHT FORWARD		→					
lter, no contam liters of Aeros il filter from 10 lter. Installed n	inants found hell Diesel 1 0 hour kit P ew fuel filte k satisfactor -00 and 72-0	ng. Drad. Insta 10W40 VN 05- er from ry at the 100-00.	lled new oil. Drai 9900-S00 100 Hou	gine oil a engine o ned gear 00104. So or kit P/N nstalled o	rach: 27 md took sample. Removed engine oil filter and cut open and inspected oil filter from 100 Hour kit P/N 05-9900-S000104. Serviced engine with box oil and took sample. Removed gearbox filter and installed new gear erviced gearbox with 1 liter of Shell Getriebeol 75W-90 oil. Removed ful 05-9900-S000104. Bled fuel system. Ran engine. Leak check and cowling. Work performed referencing DA42 Maintenance Manual Chapter A&P		
		4					
Completed A sections 5.1. I certify that airworthy con	Annual IAV 1 & 5.1.6. A this engine I	eck of limits. V FAR AD's chas been	91.409(necked the	oortional a), FAR	pressure reducing valve IAW TAE RM-02-02 Chapter 72-10.05.		
Signature	alw	Ben			A&P/IA <u>538984858</u>		
00125. Ins 7312-K00' intermedia PN 05-715 73-10.03. (checked sa Performed	gearbox ass talled Thie 7301 SN: 0 te frame P 60-E002201 Gearbox re ttisfactory.	sembly lert re 14330. PN 05- l per F placer check	y PN 05- paired g . Remov 7212-K0 RM-02-0 ment per	-7212-K earbox I red inter 020804. 02 chapto RM-02	125-02-99 S/N: 02-02-01662 297.1Tach & TT 1008805 SN: 00199, fuel feed pump PN: 05-7312-K05801 SN: PN: 05-7212-K035101-AT SN: 00816, fuel feed pump PN: 05- mediate frame PN; 05-7212-K007202 and installed new Complied with VProp Plug rewiring by installing Thielert kit er 39-40.09. Replaced fuel feed pump per RM-02-02 chapter -02, chapter 72-10.1. The engine were run up and functional onal pressure reducing valve IAW TAE RM-02-02 Chapter 72- Certificate APP 2181249		
Complied with the V-Rail plu 7320-E000703	g IAW RM S/N 2208	06-12 [-02-02 , IAW	and Thic 2 chapte 7 RM-02	r 39-40. -02 Cha	5-02-99 S/N 0202-01662 Tach: 303.8 vice Bulletin TM TAE 125-1008P1, Rev 1, by modifying 08 and replacing the Rail Pressure Control Valve P/N 05-upter 73-10.08. Left engine run and leak checked good. ue at Tach: 903.8. A&P_3/553/5		

TOTAL SINCE MFG.

	Aeroshell Diese serviced with 11 and components Checked AD con	ch 338.6 N935YM SN 42.AC07 Total inspection per FAR 43 apporthis date. Drained oil, replaced oil 10w40. Drained gearbox oil, and Shell 75w90. Serviced battery of the Replaced alternator excitation and find an Annual inspection and find P. Douglas Miller A&P 307789261 IA	oil filter, serviced of replaced gearbox of the Checked electric on batteries PN LC inspected this enging it in airworthy conditions.	turers with 6L il filter, al system	
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Harata Market					
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RECORD OF ENGINE AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE	A/D, S/B,	S/I, MODS	DETAILS OF	
			Date: 14 September, 2007 SIN: 42.AC077 Reg: N935YM TTAF: 5.8 HRS Engine LH SIN: 02-02-01662 TSN: 5.8 HRS The following S/B and S/I have been carried out as applicable: LBA AD D-2004-457/R2 –in case of failure of elec, power supply – N/A by M/N LBA AD D-2004-4457/R2 –in case of failure of elec, power supply – N/A by M/N LBA AD D-2004-473 – Detachment of high press, pump mounting boits – N/A by M/N DAI-A AD D-2005-145 – Thielert Software m2.7 – N/A by M/N DAI-A AD D-2005-145 – Thielert Software m2.7 – N/A by M/N DAI-A AD D-2005-229/R1, SI42-007 – Engine, Exchange of the clutch disk DAI-A MSB 42-017 – Software for TAE Engine, approved version – N/A DAI-A MSB 42-017 – Software for TAE Engine, approved version – N/A DAI-A MSB 42-017 – Cli Lines ATA-Code: 79-00 – N/A by A/C S/N DAI-A MSB 42-027/1 – Engine replacement requires engine control harness Replacement(at next engine change/replacement) – N/A by M/N DAI-A MSB 42-022 – Engine replacement (at next engine change/replacement) – N/A by M/N DAI-A MSB 42-042/1 – Installation of additional ECU backup batteries – NCW DAI-A OSB 42-041/1 – Installation of additional ECU backup batteries – NCW DAI-A OSB 42-041/2 – Installation of additional ECU backup batteries – NCW EASA AD 2007-0182 – Engine inspection – NCW EASA AD 2007-0182 – Installation of additional ECU backup batteries – NCW TAE SB TM TAE 000-0004 R53 – TAE manuals – C/W by TAE TAE SB TM TAE 000-0004 R53 – TAE manuals – C/W by TAE TAE SB TM TAE 125-002, R3 – Each 300 Flight Hours/12 years – Due at 1200 HRS TAE SB TM TAE 125-0004, R4 – New version of firmware and mapping – N/A by M/N TAE SB TM TAE 125-0004 R4 – New resion of firmware and mapping – N/A by M/N TAE SB TM TAE 125-0006 – Conversion to compression 18:1 – N/A by M/N TAE SB TM TAE 125-0007, R7 – conversion to compression 18:1 – N/A by M/N TAE SB TM TAE 125-0007 – Conversion to compression 18:1 – N/A by M/N TAE SB TM TAE 125-0008, R4 – Current level of firmware and mapping – N/A by M/N TAE SB TM TAE 125-0007 – Conversion to compression 18:1 – N/A by M/N T	
Metric III				
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THE RESERVE AND ADDRESS OF THE PERSON OF THE				