

RH ENGINE SIN  
02-02-01669

# AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE



<b>1. Approving National Aviation Authority / Country</b> Genehmigende nationale Luftfahrtbehörde / Staat Luftfahrt-Bundesamt / Germany		<b>AUTHORISED RELEASE CERTIFICATE</b>  <b>EASA FORM 1</b>			<b>3. Form Tracking Number</b> laufende Formularnummer <b>E3172/ 2007</b>	
<b>4. Approved Organisation Name and Address:</b> Genehmigung durch das Luftfahrt-Bundesamt Zur Ausstellung dieser Bescheinigung berechtigter Betriebe			<b>Thielert Aircraft Engines GmbH</b> Platanenstraße 14, D-09350 Lichtenstein ☎ (+49) 37204 696 0 Fax (+49) 37204 696 50 ✉ info@tae-engines.com		<b>5. Work Order / Contract / Invoice</b> Arbeitsauftrag / Vertrag / Lieferschein <b>FA 3706563</b>	
<b>6. Item</b> Lfd. Nr. / Position	<b>7. Description</b> Beschreibung	<b>8. Part No.</b> Bauteil-Nr.	<b>9. Eligibility*</b> Verwendbarkeit*	<b>10. Qty</b> Anzahl	<b>11. Serial- / Batch- No.</b> Werk- / Los-Nr.	<b>12. Status / Work</b> Zustand / Arbeiten
1	Aircraft piston engine TAE 125-02-99 (0003)-(01)	05-7200-K000301	DIAMOND DA 42; 28V	1	02-02-01669	manufactured/ hergestellt
<b>13. Remarks</b> Bemerkungen		TCDS EASA.E.055-Issue 05 - 11 May 2007 <b>Engines includes modification: as listed in engine logbook up to date 14.06.2007</b>				
<b>14. Certifies that the items identified above were manufactured in conformity to:</b> Es wird bescheinigt, dass die oben aufgeführten Artikel hergestellt wurden in Übereinstimmung mit: <input checked="" type="checkbox"/> <b>approved design data and are in condition for safe operation</b> genehmigten Entwicklungsunterlagen und in einem Zustand für einen sicheren Betrieb sind. <input type="checkbox"/> <b>non-approved design data specified in block 13</b> in Feld 13 aufgeführten nicht genehmigten Entwicklungsunterlagen.			<b>19. <input type="checkbox"/> Part -145A.50 Release to Service <input type="checkbox"/> Other Regulation specified in block 13</b> Freigabebescheinigung gemäß Teil-145A.50 Freigabebescheinigung gem. in Feld 13 aufgeführter Vorschrift 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 respect to that work the items are considered ready for release to service Es wird bescheinigt, dass, wenn in Feld 13 nichts anderes festgelegt ist, die in Feld 12 aufgeführten und in Feld 13 beschriebenen Arbeiten in Übereinstimmung mit Teil - 145 durchgeführt wurden, und dass die Artikel im Hinblick auf diese Arbeiten als geeignet für die Freigabe zum Betrieb betrachtet werden.			
<b>15. Authorised Signature</b> Unterschrift der berechtigten Person		<b>16. Approval / Authorisation Number</b> Genehmigungs- / Berechtigungsnummer <b>DE.21G.0142</b>		<b>20. Authorised Signature</b> Unterschrift der berechtigten Person		<b>21. Certificate / Approval Ref No.</b> Bescheinigungs- / Genehmigungsnummer
<b>17. Name</b> Name Markus Becker		<b>18. Date (d/m/y)</b> Datum (Tag/Monat/Jahr) 14/06/2007		<b>22. Name</b> Name		<b>23. Date (d/m/y)</b> Datum (Tag/Monat/Jahr)

EASA Form 1- Issue 1  
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.

**AUTHORIZED RELEASE CERTIFICATE- EASA FORM 1  
USER / INSTALLER RESPONSIBILITIES**

**AUTORISIERTE FREIGABEBESCHEINIGUNG -EASA FORMBLATT 1  
VERANTWORTUNG DES VERWENDERS/EINBAUENDEN BETRIEBES**

**Note:**

- It is important to understand that the existence of the document alone does not automatically constitute authority to install the part/component/assembly.
- 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/components/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 installation certification issued in accordance with the national regulations by the user /installer before the aircraft may be flown.

**Anmerkung**

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



ENGINE LOG

1. Make THIELERT AIRCRAFT ENGINES GmbH
2. Model TAE 125-02-99
3. Specification E00069EN
4. Manufacturer's Serial Number 02-02-01669
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_



# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			0	0	RH ENGINE INSTALLED NEW ON DA 42 S/N
/					Engine installation inspected I.A.W. Diamond Aircraft Industries Inc. <b>CIG.001 DA 42</b> 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 DATE <span style="float: right;">INSPECTOR</span> JUL 25 2007 <span style="float: right;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span></span> FLIGHT TEST COMPLETED
SEPT 14 2007			5.8		HOURS BROUGHT FORWARD

Bombardier	Cessna	Diamond	Honeywell	Hawker/Beech
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**GALVIN FLYING**  
World-Class People. First-Class Service  
 FAA Repair Station  
 HUNR846E

**N935YM Right #2 Engine TAE 2.0 s/n 02-02-01669 ETT: 096.2 Tach: 096.2 ACTT: 096.2 Feb.25,2008**

**RIGHT #2 ENGINE:**

- Performed 100 hour Inspection of right engine referencing Thielert checklist. Drained engine oil and inspected oil filter for unusual or excessive contaminants, none found. Serviced engine with six quarts of Aeroshell Diesel 10W-40. Drained gearbox oil and replaced oil filter with new, serviced gearbox with Shell Getriebeol EP 75W-90 oil referencing Thielert 2.0 Liter engine Operation and Maintenance Manual Chapter 02-02. Performed ground run and leak check, Ground run normal and no leaks noted at this time.
- Adjusted the fit of the upper coolant hose on cabin heat radiator from chaffing on the right engine turbocharger heat shield. Performed a coolant pressure test referencing Diamond DA-42 AMM Chapter 75 Para. 5. No leaks noted at this time.
- Complied with TAE Service Bulletin TM TAE 125-1004 P1 by removing the small o-ring of the oil filter module. Leak check performed under 100-hr. inspection.
- Verified that EASA EAD No. 2008-0027-E on Thielert HPP-Fuel Rail, Thielert Service Bulletin TM TAE 125-1005 P1, and Diamond Service Information No. SI 42-063/1 is not applicable to the TAE 2.0 engines installed.

I certify that the items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations, and are approved for return to service with respect to work performed. Pertinent details of this work are on file at the Repair Station under **Work Order No. 19658**.

Signature  005 Date FEB. 25, 2008

Galvin Flying Services, Inc.  
 6987 Perimeter Road, Seattle, WA 98108.  
 Repair Station HUNR846E

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

CARRIED FORWARD



# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

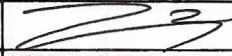
SIGNATURE

LICENCE NUMBER

42.AC077



DA  
Q 42



DA  
Q 42

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

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# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD <span style="font-size: 2em;">→</span>					

Bombardier
Cessna
Diamond
Honeywell
Hawker/Beech



**N935YM Right #2 Engine TAE 2.0 s/n 02-02-01669 ETT: 106.6 Tach: 106.6 ACTT: 106.6 March 11, 2008**

**RIGHT #2 ENGINE:**

- Complied with Thielert Service Bulletin TM TAE 125-1005 P1, Rev.2. by installation of a new high pressure fuel line, P/N 05-7313-K001301, from high pressure pump to fuel rail, with a stand off P/N 05-7231-K004201 and support bracket P/N NM-0000-0194801, in accordance with manufacturers provided instructions. All parts and installation hardware provided by Thielert. Run up, leak and functional checks good. (AR12872) Verified that compliance with this S.B. is compliance with AD2008-06-52E per paragraph (e) and (f). (Also note EASA EAD No. 2008-0027-E and Diamond SI 42-063/1)

I certify that the items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations, and are approved for return to service with respect to work performed. Pertinent details of this work are on file at the Repair Station under **Work Order No. 19682**.

Signature *[Signature]* 005 Date MARCH 11, 2008

Galvin Flying Services, Inc.  
6987 Perimeter Road, Seattle, WA 98108.  
Repair Station HUNR846E

Bombardier
Cessna
Diamond
Honeywell
Hawker/Beech



**N935YM Diamond DA 42 AC SN: 42.AC077 ACTT: 176.2 October 20, 2008**  
Thielert TAE 125-02-99 Eng. SN: 02-02-01669 Eng. TSN: 176.2

**RIGHT ENGINE**

**Inspection Items & AD/SB Compliance**

1. Complied with Annual Inspection IAW FAR 91.409(a) and FAR43 Appendix (D) using Galvin Flying Services checklist.

**General Maintenance**

1. Removed left coolant tube support bracket, installed new support bracket PN: 52-7520-H005401 referencing DA42 MM Chapter 75-00-00.
2. Removed and replaced turbocharger compressor induction rubber stand-off with a new PN; NM-0000-0159101 referencing Centurion 2.0 RM Chapter 72-40-05.
3. Removed and replaced coolant reservoir vibration support damper with new PN; NM-0000-0024601 referencing DA42 MM Chapter 75-00-00.

I certify that the items and/or aircraft identified above were inspected in accordance with an Annual/100 Hour Inspection, and/or current Federal Aviation Regulations, and are approved for return to service. Pertinent details of this work are on file at the Repair Station under **Work Order No. 20608**.

Signed *[Signature]* 001 Date 10/20/2008

Galvin Flying Services, Inc.  
6987 Perimeter Road, Seattle, WA 98108.  
Repair Station HUNR846E

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		



# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
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**12/11/09 N935YM Thielert TAE 125-02-99 S/N 02-02-01669 Engine Total Time: 178.3**

Performed 100 hour/annual inspection and servicing of engine per Thielert 2.0L Operation and Maintenance sections 6.2.2 and 6.3.2.

Ran engine. Removed L/H cowling. Removed engine oil drain plug. Drained old engine oil and took sample. Installed engine oil drain plug and safe tied. Removed engine oil filter and cut open and inspected oil filter, no contaminants found.. Installed new engine oil filter from Thielert 100 Hour kit P/N 05-9900-S000101. Serviced engine with 6 quarts of Aeroshell Diesel 10W40 oil.

Drained old gearbox oil and took sample. Removed old gearbox oil filter and installed new gearbox oil filter from Thielert 100 hour kit P/N 05-9900-S000101. Serviced gearbox with Shell Getriebeol 75W-90 oil. Ran engine. Leak check and operational check good at this time.

Removed propeller for other maintenance. Removed gearbox assembly to gain access to clutch assembly. Complied with **AD 2008-22-23** by replacing clutches per Thielert TM TAE 125-1006, Rev. 1. Removed clutch assembly P/N 05-7211-K00304 S/N: 20180 and installed a new clutch assembly P/N 05-7211-K006001 S/N 21186. Clutch and gearbox removal and replacement was IAW Centurion 2.0 R.M.-02-02 chapters 72-10-01 and 72-10-02. Reinstalled propeller with new o-ring and lock nuts per Diamond M.M. chapter 61-10-00.

Performed 100-hour check of the proportional pressure reducing valve IAW TAE RM-02-02 Chapter 72-10.05. Valve functioned within limits.

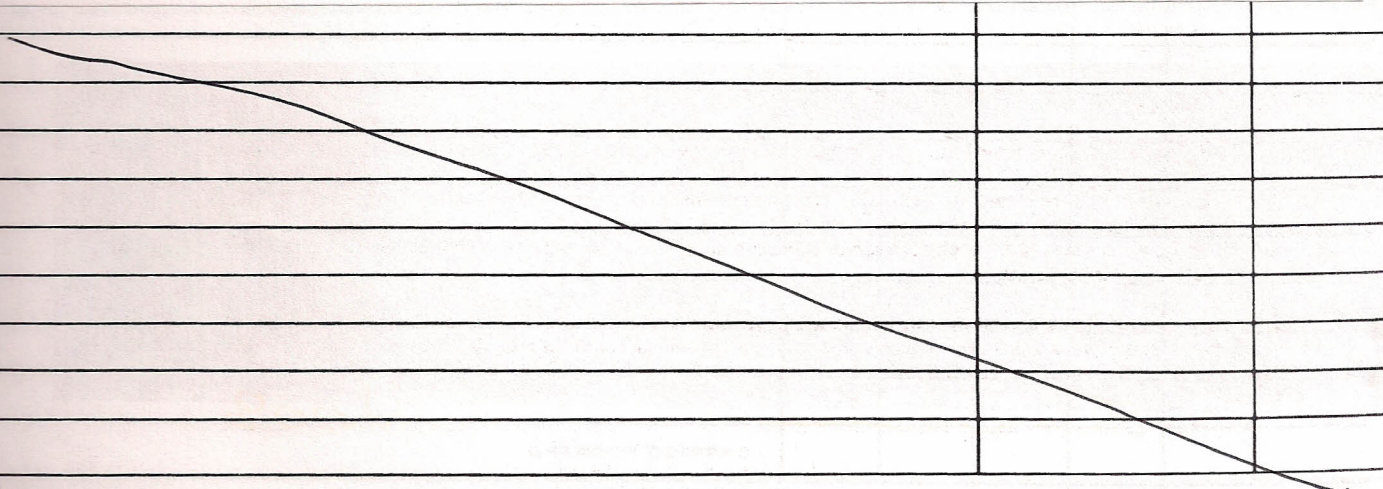
Signature *Andrew Ben* A&P 538984858

**12/11/2009 N935YM Thielert TAE125-02-99 S/N: 02-02-01669 178.3 Tach & TT Engine**

Completed **Annual IAW FAR 91.409(a), FAR43 Appendix (D)**, and Thielert Operation & Maintenance Manual sections 5.1.1 & 5.1.6. AD's checked through this date.

I certify that this engine has been inspected in accordance with an **Annual** inspection and was determined to be in an airworthy condition.

Signature *Andrew Ben* A&P/IA 538984858



MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



## ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				

**1/6/2011**      **N935YM**      **Thielert TAE125-02-99**      **S/N: 02-02-01669**      **Tach: 277.7**  
 Ran engine. Removed cowlng. Drained engine oil and took sample. Removed engine oil filter and cut open and inspected oil filter, no contaminants found. Installed new engine oil filter from 100 Hour kit P/N 05-9900-S000104. Serviced engine with 6 liters of Aeroshell Diesel 10W40 oil. Drained gearbox oil and took sample. Removed gearbox filter and installed new gearbox oil filter from 100 hour kit P/N 05-9900-S000104. Serviced gearbox with 1 liter of Shell Getriebeol 75W-90 oil. Removed fuel filter. Installed new fuel filter from 100 Hour kit P/N 05-9900-S000104. Ran engine. Bled fuel system. Leak check and operational check satisfactory at this time. Installed cowlng. Work performed referencing DA42 Maintenance Manual Chapters 28-20-00, 61-20-00 and 72-00-00.  
 Signature *Oliver Gindler*      A&P 2806462

**01/06/2011**      **N935YM**      **Thielert TAE125-02-99**      **S/N: 02-02-01669**      **277.7 Tach & TT Engine**  
 Performed 100-hour check of the proportional pressure reducing valve IAW TAE RM-02-02 Chapter 72-10.05. Valve functioned within limits.  
 Completed **Annual IAW FAR 91.409(a), FAR43 Appendix (D)**, and Thielert Operation & Maintenance Manual sections 5.1.1 & 5.1.6. AD's checked through this date.

I certify that this engine has been inspected in accordance with an **Annual** inspection and was determined to be in an airworthy condition.  
 Signature *Oliver Ben*      A&P / IA 538984858

**04/27/2011**      **N935YM Rt engine S/n 02-02-01669**      **294.1 tach**  
 Installed a serviceable propeller pressure reducing valve P/N 05-7212-E002801. Run up, operational, leak checks and PPRV pressure check was good. Performed engine run up and data download.  
 Signature *Oliver Ben*      A&P 538984858

**05/17/2011**      **N935YM Right engine S/N 02-02-01669**      **295.4 tach & TTEngine**  
 Removed right engine and cowlings. Removed gearbox P/N 05-7212-K08805, S/N 00200. Replaced intermediate flange with new style P/N 05/7212-K020804 per RM 02-02 chapter 72-10.08. Installed Thielert repaired gearbox P/N 05-7212-K035101-AT, S/N 00993 per RM-02-02 chapter 72-10.01. Modified prop valve wiring per Thielert service bulletin TM TAE 125-1007 P1 R2. Installed propeller and cowlings. Engine run up, operational and leak checks good. PPRV pressure check was good.  
 Signature *Oliver Ben*      A&P 538984858

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TOTAL FROM PREVIOUS SUMMARY				
TOTAL SINCE MFG.				



# MAINTENANCE RECORD

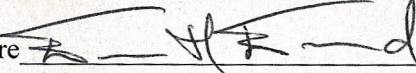
REPAIRS, ADJUSTMENTS, MODIFICATIONS  
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**6/13/2011 N935YM Thielert TAE125-02-99 S/N 0202-01669 Tach: 303.8**

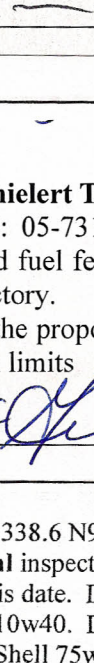
Complied with AD2010-06-12 and Thielert Service Bulletin TM TAE 125-1008P1, Rev 1, by modifying the V-Rail plug IAW RM-02-02 chapter 39-40.08 and replacing the Rail Pressure Control Valve P/N 05-7320-E000703 S/N 2316, IAW RM-02-02 Chapter 73-10.08. Right engine run and leak checked good. Rail Pressure Control valve replacement next due at Tach: 903.8.

Signature  A&P 3155315

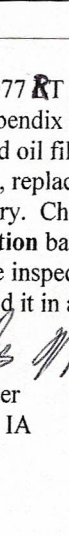
**05/20/2011 N935YM Thielert TAE125-02-99 S/N: 02-02-01669 297.1 Tach & TT**

Removed fuel feed pump PN: 05-7312-K05801 SN: 00111. Installed fuel feed pump PN: 05-7312-K007301 SN: 04337. Replaced fuel feed pump per RM-02-02 chapter 73-10.03. The engine was run up and functional checked satisfactory.

Performed 100-hour check of the proportional pressure reducing valve IAW TAE RM-02-02 Chapter 72-10.05. Valve functioned within limits

Signature  Certificate A&P 2181249

02-18-2012 Tach 338.6 N935YM SN 42.AC077 RT Engine SN 02-02-1669  
 Performed **Annual** inspection per FAR 43 appendix D & manufacturers service manual this date. Drained oil, replaced oil filter, serviced with 6L Aeroshell Diesel 10w40. Drained gearbox oil, replaced gearbox oil filter, serviced with 1L Shell 75w90. Serviced battery. Checked electrical system and components. Replaced **alternator excitation** batteries PN LC-R121 R3P. Checked AD compliance. I Certify that I have inspected this engine in accordance with an **Annual** inspection and find it in airworthy condition this date.

  
 P. Douglas Miller  
 A&P 307789261 IA

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



