

RH ENGINE S/N  
02-02-01749

# AIRCRAFT TECHNICAL LOGS

## Section 3. ENGINE

# 1. Approving National Aviation Authority / Country

Genehmigende nationale Luftfahrtbehörde / Staat  
Luftfahrt-Bundesamt / Germany

## AUTHORISED RELEASE CERTIFICATE EASA FORM 1

### 3. Form Tracking Number

laufende Formelnummer

E2247/2007

### 4. Approved Organisation Name and Address:

Genehmigung durch das Luftfahrt-Bundesamt Zur Ausstellung dieser Bescheinigung berechtigter Betriebe

**Thieler Aircraft Engines GmbH**  
Platanenstraße 14, D-09350 Lichtenstein  
(+49) 37204 60 0 Fax (+49) 37204 696 50  
info@thieler-engines.com

### 5. Work Order / Contract / Invoice

Arbeitsauftrag / Vertrag / Lieferschein

FA3708233

6. Item Lfd. Nr. / Position	7. Description Beschreibung	8. Part No. Bauteil-Nr.	9. Eligibility Verwendbarkeit	10. Qty Anzahl	11. Serial- / Batch- No. Werk- / Los-Nr.	12. Status / Work Zustand / Arbeiten
1	Kolbenflugmotor TAE 125-02-99 Aircraft piston engine TAE 125-02-99	05-7200-K000301	DIAMOND DA 42 28V TAE 125-02-99-00004(01)	1	02-02-01749	Hergestellt / manufactured

### 13. Remarks

Bemerkungen

Type design definition TDD 02-02 Issue 2 Revision 0; Data sheet EASA.E.055-Issue 05 - 11 May 2007. This engine conforms to the Canadian Department of Transportation of Transport Type Certificate IE-50 issued in accordance with the terms of an applicable Bilateral Airworthiness Agreement or technical Arrangement.

TM TAE 000-0004 R51, TM TAE 000-0007 R1, TM TAE 125-0001 R2, TM TAE 125-1001 P0

### 14. Certifies that the items identified above were manufactured in conformity to:

Es wird bescheinigt, dass die oben aufgeführten Artikel hergestellt wurden in Übereinstimmung mit:



**approved design data and are in condition for safe operation**

genehmigten Entwicklungsunterlagen und in einem Zustand für einen sicheren Betrieb sind.



**non-approved design data specified in block 13**

in Feld 13 aufgeführten nicht genehmigten Entwicklungsunterlagen.

### 19. ☐ Part -145A.50 Release to Service

Freigabebescheinigung gemäß Teil-145A.50

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.

### ☐ Other Regulation specified in block 13

Freigabebescheinigung gem. in Feld 13 aufgeführter Vorschrift

### 15. Authorised Signature

Unterschrift der berechtigten Person

*[Signature]*

### 16. Approval / Authorisation Number

Genehmigungs- / Berechtigungsnummer

DE.21G.0142

### 20. Authorised Signature

Unterschrift der berechtigten Person

*[Signature]*

### 21. Certificate / Approval Ref No.

Bescheinigungs- / Genehmigungsnummer

### 17. Name

Name

Wolfgang Gläser

### 18. Date (d/m/y)

Datum (Tag/Monat/Jahr)

23.07.2007

### 22. Name

Name

*[Signature]*

### 23. Date (d/m/y)

Datum (Tag/Monat/Jahr)

*[Signature]*

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.

AUTHORIZED RELEASE CERTIFICATE- EASA FORM 1  
USER / INSTALLER RESPONSIBILITIES

Der Verwender/einbauende Betrieb ist verpflichtet, die Verwendbarkeit gemäß der geltenden technischen Unterlagen zu überprüfen.

EASA Form 1 - Ausgabe 1  
EASA Formblatt 1 - Ausgabe 1

\* Installer must cross - check eligibility with applicable technical data

AUTORIZIERTE FREIGABEBESCHEINIGUNG - EASA FORMBLATT 1  
VERANTWORTUNG DES VERWENDERS/EINBAUENDEN BETRIEBES

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.

INES GmbH

-99

EN

1749

### ENGINE LOG

1. Make THIELERT AIRCRAFT ENGINES GmbH
2. Model TAE 125-02-99
3. Specification E00069EN
4. Manufacturer's Serial Number 02-02-01749
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_



## M A

ENTRIES. DRAW A

42. AC088

COMPLIED WITH THE FOLLOWING INSPECTIONS:

1. 100 Hour Inspection IAW Diamond DA42 AMM, CH. 05-20-00
2. Thielert O & M Manual, CH. 6.

**COMPLIED WITH THE FOLLOWING LUBRICATION SCHEDULES:**

1. 100 Hour Lubrication Schedule IAW Diamond DA42 AMM, CH 12-20-00.

PERFORMED THE FOLLOWING MAINTENANCE:

1. Changed oil and filter. Collected sample. Serviced 6 quarts Aeroshell 10W/40 Diesel engine oil and installed new filter IAW Thielert O & M Manual, Annex 5.
2. Changed Gearbox oil and filter. Collected sample. Serviced 1 Liter Shell P/N: AER1045 Gear Oil and installed new filter IAW Thielert O & M Manual, Annex 8.
3. Replaced the fuel filter element and bled the fuel system in accordance with the DA42 AMM, Chapter 28.
4. Performed Coolant System Pressure Test in accordance with the DA42 AMM, Chapter 75.
5. Complied with FAA Emergency AD 2008-06-52, dated March 12, 2008. Replaced the high pressure fuel lines on the left and right engines with new lines P/N: 05-7313-K001301, supplied by TAE. Installed high pressure fuel line support brackets on both engine high pressure fuel lines. All work accomplished in accordance with Thielert Service Bulletin TM TAE 125-1005 P1, Rev. 2 as terminating action.
6. AD's checked through Tdata release # 2008-06

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

AUTHORIZED SIGNATURE: Michael S. Herbert

Right Engine Model: TAE 125-02-99  
Right Engine S/N: 02-02-01749  
Engine Total Time: 200.2  
Tach Time: 200.2  
N987TS  
S/N: 42 AC088  
Date: 11/26

PERFORMED THE FOLLOWING MAINTENANCE:

- REPAIR AND FOLLOWING MAINTENANCE:
1. Complied with AD 0-7896 (Replacement of engine clutch assembly), da  
assembly P/N 05-7896 (Replacement of engine clutch assembly), da  
02-02 as terminating action. P/N 21180, IAW TAE SB TM TAE 125-

ABOVE DESCRIBED MA  
UNDER S.O. # LS08-1219.

RTIFIED AIRWORTHY AND A

AUTHORIZED SIGNATURE:

alled inspected clutch  
/08 and the TAE RM-

CORD IS ON FILE

GSPR467E



# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

DA  
Q 42

42. AC088

DA  
Q 42



Tail# N987TS	Model: TAE 125-02-99	S/N: 02-02-01749
Right Engine Log	Total Time: 301.2	Total Cycles: N/A
AFTT: 301.2	TSO: N/A	CSO: N/A

## COMPLIED WITH THE FOLLOWING INSPECTION ITEMS

- 1- 100hrs/annual inspection IAW Diamond DA-42 MM chap. 5-20-00 and TAE MM.

## COMPLIED WITH THE FOLLOWING SCHEDULED MAINTENANCE ITEMS

- 1- Removed gearbox P/N 05-7112-K008807 S/N 00283, installed repaired P/N 05-7112-K008809 S/N 00671.
- 2- Removed fuel feed pump P/N 05-7312-K005801 S/N 00172, installed new P/N 05-7312-K007301 S/N 2991.

## COMPLIED WITH THE FOLLOWING SERVICE BULLETINS AND AIRWORTHINESS DIRECTIVES

- 1- Airworthiness Directives checked biweekly thru 2009-17.
- 2- TAE SB TM TAE 125-1008 P1 Rev 1, modified the V prop plug.
- 3- TAE SB TM TAE 125-1007 P1 Rev 2, modified the V rail plug.

## PERFORMED THE FOLLOWING UNSCHEDULED MAINTENANCE ITEMS

- 1- Replaced the air intake duct dampener mount.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS09-2121

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (a), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE

DATE: AUG 28 2009

WEST COAST AIRCRAFT MAINTENANCE 2881 East Spring Street Long Beach CA 90806 FAA CRS GSPR467E

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

# ENGINE SERVICE AND

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

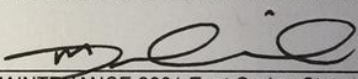


Tail# N987TS	Model: TAE 125-02-99	S/N: 02-02-01749
Right Engine Log	Total Time: 347.6	Total Cycles: N/A
AFTT: 347.6	TSO: N/A	CSO: N/A

## PERFORMED THE FOLLOWING ROUTINE MAINTENANCE

- 1- Removed the starter assy P/N 05-8010-E002801 S/N Unk, installed a new starter assy P/N 05-8010-E002801 S/N 09-324.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS10-2018

AUTHORIZED SIGNATURE  DATE: JAN 28 2010  
WEST COAST AIRCRAFT MAINTENANCE 2881 East Spring Street Long Beach CA 90806 FAA CRS GSPR467E



Tail# N987TS	Model: TAE 125-02-99	S/N: 02-02-01749
Right Engine Log	Total Time: 400.9	Total Cycles: N/A
AFTT: 400.9	TSO: N/A	CSO: N/A

## COMPLIED WITH THE FOLLOWING INSPECTION AND SCHEDULED MAINTENANCE

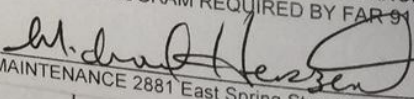
- 1- 100hrs/annual inspection using the Diamond DA-42 MM chap. 5-20-00 checklist as a guide and TAE MM.
- 2- Replaced the fuel filter element.
- 3- Engine and gearbox oil and filter change.
- 4- Complied with 24 month coolant replacement.

## COMPLIED WITH THE FOLLOWING SERVICE BULLETINS AND AIRWORTHINESS DIRECTIVES

- 1- Airworthiness Directives checked biweekly thru 2010-17.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS10-2184

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (a), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE  DATE: SEP 10 2010  
WEST COAST AIRCRAFT MAINTENANCE 2881 East Spring Street Long Beach CA 90806 FAA CRS GSPR467E

TOTAL THIS PAGE				
TOTAL FROM PREVIOUS SUMMARY				
TOTAL SINCE MFG.				

CARRIED FORWARD

REPAIRS, ADJUSTMENTS, MAINTENANCE  
DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME

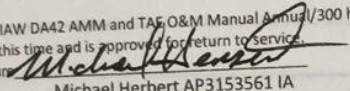
  
**FRESH AIR maintenance LONG BEACH**  
2901-F E. Spring St., Long Beach, Ca  
562-366-4806  
562-881-5345

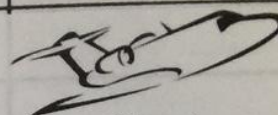
Date: 9/23/11 N987TS S/N: 42.AC088  
Engine: TAE 125-02-99 S/N: 02-02-01749  
Engine Total Time: 479.3

10. Performed Annual/300 hour inspection IAW DA42 AMM 05-20-00 and TAE O&M Manual.
11. Changed oil and filter. Serviced engine with 6 liters of Aeroshell 10W-40 diesel engine oil IAW DA42 AMM 12-10-00.
12. R&R Gearbox for 300 hour inspection and installed TAE repaired gearbox assembly p/n 05-7212-K033504 s/n 01872 with oil cooler installation kit p/n 05-9900-S000205 IAW TAE RM 39-40 and 72-10.
13. R&R Cutch for 300 hour inspection and installed repaired assembly p/n 05-7211-K0094406.
14. Serviced gearbox with 1 liter of Shell EP 75W-90 IAW DA42 AMM 12-10-00.
15. Performed coolant system pressure test IAW Diamond DA42 AMM 75-00-00.
16. Replaced fuel filter element IAW Diamond DA42 AMM 28-20-00.
17. ADs current to biweekly revision 2011-19.
18. Performed ground run operational and leak check with no discrepancies noted at this time.

I certify this engine has been inspected IAW DA42 AMM and TAE O&M Manual Annual/300 hour inspection, is in airworthy condition at this time and is approved for return to service.

Authorized Signature

  
Michael Herbert AP3153561 IA



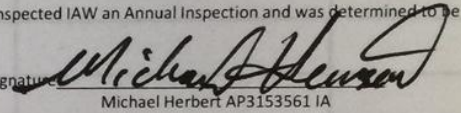
**MXdiamond**  
2901-F E. Spring St., Long Beach, CA  
562-989-9495  
562-881-5345

Date: 9/12/12 N987TS S/N: 42.AC088  
Engine: TAE 125-02-99 SN: 02-02-01749  
Tach: 540.4

1. Performed Annual/100Hr Inspection using DA42 AMM as a guide.
2. Changed oil and filter. Serviced engine with 6L Shell D 10W-40 IAW DA42 AMM 12-10-00.
3. Serviced gearbox with 1L Shell EP 75W-90 IAW DA42 AMM 12-10-00.
4. Performed coolant system pressure test IAW DA42 AMM 75-00-00.
5. AD 2010-06-12 P/C/W TAE125-1007. Replace RPCV by 600.0
6. AD 2010-11-09 P/C/W TAE125-1008. PPRV supplied with gearbox.
7. AD 2011-05-06 Replace Timing chain by 610.0
8. AD 2011-07-09 N/A by Faderc version.
9. AD 2011-23-01 N/A by P/N.
10. AD 2012-02-05 N/A by P/N.
11. ADs current to biweekly revision 2012-16.
12. Performed ground run operational and leak check.

I certify this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

Authorized Signature

  
Michael Herbert AP3153561 IA



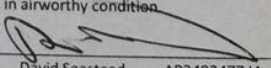
Date: 10/2/13 N987TS S/N: 42.AC088  
Engine: TAE 125-02-99 S/N: 02-02-01749  
Total Time: 583.3 Hobbs: N/A

Angel City Flyers  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Performed Annual/100Hr Inspection using DA42 AMM as a guide.
  2. Changed oil and filter. Serviced engine with 6L Shell D 5W-30 IAW DA42 AMM 12-10-00.
  3. Changed gearbox oil and filter. Serviced with 1L Shell Spirax 75W-90 IAW DA42 AMM 12-10-00.
  4. Performed coolant system pressure test IAW DA42 AMM 75-00-00.
  5. Replaced intercooler shock mounts P/N 90589 IAW DA42 AMM 81-00-00.
  6. AD 2012-26-12 (Vent Hole) inspected IAW TAE125-1015
  7. AD 2012-26-13 (Faderc) updated IAW TAE 000-0007.
  8. ADs current to biweekly revision 2013-18.
- Performed ground run operational and leak check

I certify this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

Authorized Signature

  
David Seastead

AP3492477 IA



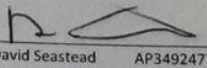
Date: 12/26/13 N987TS S/N: 42.AC088  
Engine: TAE 125-02-99 S/N: 02-02-01749  
Total Time: 594.9 Hobbs: N/A

Angel City Flyers  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced gearbox cooler hose P/N 05-7212-K036503 IAW RM-02-02- 72-10.17.
2. Replaced alternator P/N 05-7150-E000601-AT with inspected S/N C0676 IAW RM-02-02 71-50.01. Next due by 1194.9.
3. Replaced HPP P/N 05-7312-K005303-AT with inspected S/N 3108 IAW RM-02-02 73-10.02. Next due by 1194.9.
4. AD 2010-06-12 (RPCV) replaced P/N 05-7320-E000703 IAW TAE125-1007. Next due by 1194.9.
5. AD 2011-05-06 (Timing Chain) replaced P/N 05-9900-S000602 IAW TAE125-1010. Next due by 1494.9.
6. ADs current to biweekly revision 2013-24.
7. Performed ground run operational and leak check.

I certify the above work was performed IAW DA42 AMM and is in airworthy condition.

Authorized Signature

  
David Seastead

AP3492477 IA

2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

- Authorized Signature \_\_\_\_\_

AP3492477 1A



MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

- Authorized Signature

AP3492477 1A