



Transport
Canada
Aviation

Transports
Canada
Aviation

TP3910E

DCE 97015

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

#2

~~GAS~~

~~GENERATOR~~

Second Edition

January 1987

Canada

closed

10/29/12

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ENGINE LOG

1. Make PRATT & WHITNEY CANADA INC.
2. Model PT6A65 R
3. Specification 814 (ETA E12)
4. Manufacturer's Serial
Number PCE-97015
5. Date of Manufacture NOV. 1982
6. Aircraft Inspection Cycle _____

MAINTENANCE RECORD

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

SIGNATURE

LICENCE
NUMBER

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 COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
8-30-10	Hobbs		6739		Power was surging on take off. PIN 3106870-01 S/N 8N672 with Ground ran + valve closed properly ENGINE NO LONGER SURGES.
7/30/10	Hobbs -		6753.6		Install Fuel control S/N 2165217 - Removed FCU for Return To Inth. Gov. Set Ground Idle + ck Flight Idle
3-11-11	Hobbs		6966.6		100HR SERVICE PERFORMED. RINSES ETC FUEL FILTER + PREWASH FUEL FILTER. BLEW OIL ON RESOLUTION GEAR BOX. INSTALL A INSTALLED FUEL NOZZLES INSPECTED BY ATIS
3-15-11	Hobbs		6967.0		SYNCHRONICALLY BALANCES PROPELLER TO
7/27/11	hobbs		7093.5		100HR SERVICE PERFORMED. CLEANED OIL GREASED PROP. CHECKED CHIP DETECTORS. NEW PIN 23048-016 S/N 20261 OVERHAULED BY GROUND RAN OPS CR OK I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTION AND WAS DETERMINED TO BE IN
9/14/11	hobbs		7232.2		100HR SERVICE PERFORMED. CLEANED CHIP DETECTORS. ST/GEN BRUSHES 95% FUEL FILTERS. SERVICE REDUCTION
9/23/11	hobbs		7247.4		INSTALLED FUEL NOZZLES INSPECTED
9/28/11	hobbs		7265.0		INSPECTED ENGINE MOUNTS FOR CRACKS
2/13/2012			7381.9		Remove engine for overhaul CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

19

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

SIGNATURE

LICENCE
NUMBER

INSTALLED A OVERHAULED BLEED VALVE
BLEED VALVE SEAT OVERHAULED P/N 3033519CL1
I.A.W. STURMITNEY MAINTENANCE MANUAL. NOTE

Run-up - Eng had occasional comp stall at 60% -
Re-Install - after warranty repair - Run-up -
OK - good - Now up -

SCREEN + SENT IN SAMPLE. R+R'S HIGH PRESSURE
OIL ST/GEN 20% REMAINING ON BRUSHES. CHANGED
NEW P-3 METER. INSTALLED A NEW BETA BLOCK.
W.O. 6520. GROWS RAN. GAS OK OK!

01 IPS. During for APP 3342519 -

SCREEN + SENT IN SAMPLE. SERVICED BATTERIES.
FUEL FILTERS INSTALLED. INSTALLED STARTER/GEN.
NIALL-AVITECH. WORK ORDER NO. 241327

INSPECTED IN ACCORDANCE WITH A 100 HK
AN AIRWORTHY CONDITION

OIL SCREEN + SENT IN OIL SAMPLE. CHECKED
REMAINING: R+R HIGH PRESSURE + FIREWALL
GEAR BOX. SERVICED BATTERIES.

BY AIRFORCE TURBINE SERV. W.O. 6688

AD # 2009-11-05

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

CURRENT Hobbs

TIME AS OF 2-28-12.

hobbs 234

7381.9

N31234 hobbbs 7247.4

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 8889		
4. Organization Name and Address:  Airforce Turbine Service www.PT6A.aero -- FAA CRS TQZR133K P.O. Box 146, Tynan, TX 78391 11557 Hwy 359, Mathis, TX 78368 Ph: 361-547-3386, Fax: 361-547-7273 FAA Approval Holder: TQZR133K		5. Work Order, Contract or Invoice Number: 6688				
6. Item	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	FUEL NOZZLE SET	65NOZ	N/A	1	6790	INSP
13. REMARKS 3100456-01 (7) 3100458-01 (6) 3100453-01 (1) INSPECTED PER P.W.C. O/H/M ☐ M/M ☒ 3032842 Rev. 48 Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.						
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13 19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.						
15. Authorized Signature:		16. Approval/Authorization No:		20. Authorized Signature:		21. Approval/Certificate No:
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): AUGUSTINE LARA		23. Date (m/d/y): Aug/19/2011
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statement in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

Approved by: [Signature]

Approved by: [Signature]

Approved by: [Signature]

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 7187	
4. Organization Name and Address: ATS Airforce Turbine Service www.PT6A.aero -- FAA CRS TQZR133K P.O. Box 146, Tynan, TX 78391 11557 Hwy 359, Mathis, TX 78368 Ph: 361-547-3386, Fax: 361-547-7273 FAA Approval Holder: TQZR133K				5. Work Order, Contract or Invoice Number: 6520	
6. Item 1	7. Description: FUEL NOZZLE SET	8. Part Number: 65NOZ	9. Eligibility: * N/A	10. Quantity: 1	11. Serial/Batch Number: 10339
12. Status/Work: INSP					
13. REMARKS 3100456-01 (7) 3100458-01 (6) 3100453-01 (1) INSPECTED PER P.W.C. O/H/M ☐ M/M ☒ 3032843 Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.					
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☒ Non-approved design data specified in Block 13					
15. Authorized Signature:		16. Approval Authorization No:		19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
20. Authorized Signature: [Signature]		21. Approval/Certificate No:			
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): AUGUSTINE LARA	
				23. Date (m/d/y): Feb/07/2011	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer work in accordance with the national regulations of an airworthiness authority, different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statement in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

ENGINE SERVICE AND

DATE

TIME RUN

TIME SINCE OVERHAUL

INSTALLATIONS, INSPECTIONS,

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

HRS.

MIN.

HRS.

MIN.

BROUGHT FORWARD

DallasAirmotive.

40591 Airport Road
New London, NC 28127

CERTIFICATE NO. YRR2491L

PT6A-65R	Gas Generator S/N: PCE97015	T.S.N.: 23597.2	C.S.N.: 47167	T.S.O.: 9329.3	C.S.O.: 18314
PT6A-65R	Power Section S/N: PS97050	T.S.N.: 23590.5	C.S.N.: 46009	T.S.O.: 3930.9	C.S.O.: 8740

DISASSEMBLED, CLEANED, INSPECTED. REPAIRED AND REPLACED PARTS AS REQUIRED. COMPLIED WITH HOT SECTION INSPECTION. CLEANED AND PRESSURE/FLOW CHECKED FUEL NOZZLES. COMPLIED WITH THE LATEST REVISIONS OF PRATT & WHITNEY CANADA SERVICE BULLETINS 13096, 13143, 13258, 13338, 13365, 13399, 13422, 13457. INSTALLED NEW OIL FILTER. INSTALLED NEW P3 FILTER. ENGINE RE-ASSEMBLED WITH ALL NEW SEALS AND GASKETS, TESTED AND PRESERVED. ALL WITH REFERENCE TO BULLETIN INSTRUCTIONS, PRATT & WHITNEY CANADA OVERHAUL MANUAL 3032843R42 LIGHT OVERHAUL DATED 14 JAN 2011, MAINTENANCE MANUAL 3032842R48 DATED 8 OCT 2010 AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINISTRATOR.

CT VANE RING FLOW CLASS 6.23 8S1

PT STATOR FLOW CLASS 20.12 2S1

CT DISK DIAMETER 9.205"

CT BLADE TIP CLEARANCE .016

CORRECTED ENGINE PERFORMANCE

SHP	Ng %	Ts °F	Ts °C	SFC	POWER CHECK Ts TARGET	DATA PLATE SPEED	Ts PULL DOWN REQUIRED	Ts TRIMMER	ADJUSTED
1173	96.13	1338	725.6	.552	N/A °C	36050/96.13 %	43.3 °C	P/N 3053995CL10	@ 24.2

LIFE LIMITED COMPONENTS INSTALLATION (NOTE: REFER TO S/B13002, LATEST REVISION, FOR APPROVED LIFE LIMITS)

Name	Part Number	Serial Number	Total Cycles	Cycles Rem	Name	Part Number	Serial Number	Total Cycles	Cycles Rem
Rotor Stg 1	3038901	71A845	12,066	11,934	Impeller	3036897	3E255	17,217	6,783
Disk Stg 2	3033512	13A823	17,217	6,783	Disk CT	3040311	75A416	9,310	5,690
Disk Stg 3	3033513	33A091	17,217	6,783	Disk Stg 1 PT	3029312	26A111	18,814	11,186
Disk Stg 4	3033514	47A277	17,217	6,783	Disk Stg 2 PT	3029313	4N658	18,814	11,186
Spacer Stg 4	3114590-01	47A985	17,217	6,783					

This engine has been repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of this repair are on file at this repair station under work order: RPR27275

Signature: [REDACTED]

Date: 24 APRIL 2012

DallasAirmotive.

40591 AIRPORT ROAD, NEW LONDON, NC 28127
CERTIFICATE NO. YRR2491L

WORK ORDER NUMBER	ENGINE SERIAL NUMBER	MODEL	DATE
RPR27275	PCE97015	PT6A-65R	4/24/2012
ENGINE T.S.N.	ENGINE C.S.N.	ENGINE T.S.O.	ENGINE C.S.O.
23597.2	47167	9329.3	18314
ACCESSORY INSTALLATION			
NAME	P/N	S/N	TSO
FUEL CONTROL	8061-328B	2165217	0
FUEL HEATER	10585K	897	0
FUEL PUMP	399701-5	3529	0
H.P. BLEED VALVE	3112714-01	3N672	0
OIL FILTER	3059258-01		NEW
TS TRIMMER	3053995CL10	NR01062	NEW
P3 AIRFILTER	3029268		NEW
REMARKS			
1000 HOUR LIFE			
1000 HOUR LIFE			

DallasAirmotive.

40591 AIRPORT ROAD, NEW LONDON, NC 28127
CERTIFICATE NO. YRR2491L

WORK ORDER NUMBER	POWER SECTION S/N	MODEL	DATE
RPR27275	PS97050	PT6A-65R	4/24/2012
POWER SECT TSN	POWER SECT CSN	POWER SECT TSO	POWER SECT CSO
23590.5	46009	3930.9	8740
ACCESSORY INSTALLATION			
NAME	P/N	S/N	TSO
TS HARNESS	3112214-01	NR23470	NEW
CONSTANT SPEED GOV.	8210-034M	2253468	0
OVERSPEED GOV.	210960B	11517932	0
REMARKS			

TOTAL THIS PA

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

Book Closed - See #3

MAINTENANCE RECORD

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

SIGNATURE

LICENCE
NUMBER

6-1-2012 hobbs-7381.9 TT 23597.2

Install this engine in AT-802A. N5123U
Replace fuel & oil lines, Re. install prop
after Repair of Golden State Propeller shop
w/o. # 20749. Service engine oil, Run-
up, Leak. ch. Re. Service oil. bal. prop.
To .05 Ips. Set Ground Idle.

7393

6-20-12 Hobbs-7382.8 change HP Fuel
pump drive Seal - Run-up - ch.
- No leak -

7394.3 oil sample -

6-29-12 Hobbs-7398.5 Change HP Fuel
pump carrier and seal, Change eng.
oil. Run-up - Leak ch. - good -

8/8/12 hobbs 7495.8 100HR SERVICE
PERFORMED. SENT IN OIL SAMPLE +
OIL SCREEN. CLEANED AIR FILTERS.
INSPECTED CHIP DETECTORS. INSTALLED NEW
FUEL FILTERS. GREASED Prop. SERVICED
BATTERIES. CHANGED HYD GEAR BOX OIL
+ GREASED HYD MOTOR SPLINES.

8/15/12 hobbs 7517.7 INSTALLED PERVINT GEAR
BOX BY KAWAK AVIATION TECHNOLOGIES INC. NEW
GASKETS SEALS + NEW SHEAR SHAFT

10/29/12 hobbs 7628.0 100HR SERVICE
PERFORMED. SENT IN OIL SAMPLE. INSTALLED
NEW FUEL FILTERS. SERVICED HYD SYSTEM.
INSTALLED NEW BETA BLOCK

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

1. Approving National
Aviation Authority/Country
FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG


BBA Aviation

4. Organization Name and Address
Dallas Airmotive, Inc.
Stanly County Airport, 40591 Airport Road
New London, NC 28127

Certificate Number: YRR2491L

6. Item	7. Description:	8. Part Number	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	PT6A-65R TURBOPROP ENGINE	3101000-01	N/A	1	PCE97015	REPAIRED

13. Remarks TT: 23597.2 TSO: 9329.3 CSN: 47167 CSO: 18314

DISASSEMBLED, CLEANED, INSPECTED. REPAIRED AND REPLACED PARTS AS REQUIRED. COMPLIED WITH HOT SECTION INSPECTION. CLEANED AND PRESSURE/FLOW CHECKED FUEL NOZZLES. COMPLIED WITH THE LATEST REVISIONS OF PRATT&WHITNEY CANADA SERVICE BULLETINS 13096, 13143, 13258, 13338, 13365, 13399, 13422, 13457. INSTALLED NEW OIL FILTER. INSTALLED NEW P3 FILTER. ENGINE RE-ASSEMBLED WITH ALL NEW SEALS AND GASKETS, TESTED AND PRESERVED. ALL WITH REFERENCE TO BULLETIN INSTRUCTIONS, PRATT&WHITNEY CANADA OVERHAUL MANUAL. 3032843R42 LIGHT OVERHAUL DATED 14 JAN 2011, MAINTENANCE MANUAL 3032842R48 DATED 8 OCT 2010 AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINISTRATOR.

INCLUDES POWER SECTION PS-97050
TT: 23590.5 TSO: 3930.9 CSN: 46009 CSO: 8740

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature:	20. Authorized Signature: 
16. Approval/Authorization No.:	21. Approval/Certificate No.:
17. Name (Typed or Printed):	23. Date (d/m/y):
18. Date (d/m/y)	24 April 2012

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

[illegible][illegible]

SPECIAL INSPECTIONS (S/I) AND MODIFICATIONS (MODS)

WORK OR INSPECTION PERFORMED

LICENCE

FOR MODIFICATION STATUS REFER TO

MOD LOG ATTACHED DATED: APR 13 1994

M. LEE
PAWC SVCE CENTRE

SC
46

MODIFICATION LOG STATUS

INCORPORATED THIS VISIT

WORK ORDER : 010090

PCE- 97015

DATE : 04/13/94

PT6A-65R

GAS MODULE

SB'S SI'S SIL'S	REV.	DESCRIPTION
13002	11	ROTOR COMPONENTS SERVICE LIFE
13112	0	NEW P3 FILTER HOUSING WITH TWO NEW TUBES
13148	1	NEW C.T ROTOR REAR AIR SEAL
13160	1	NEW NO 1 BRG OIL NOZZLE STRAINER ELEMENT
13168	2	C.T. STATOR ASSY. COMPRESSIBLE SEALS - INTRODUCTION OF
13169	0	TUBE SUPPORT BRACKET FOR OIL-TO-FUEL HEATER - INTRODUCTION OF
13181	0	NEW CT STATOR ASSY. & SHROUD HOUSING.
13197	0	NEW AGB HSG & DIAPHRAM ASSYS.
13201	1	COMPR. ROTOR ASSY., & NO.1 BRG. OIL NOZZLE - REPLACEMENT OF
13207	0	NEW ASBESTOS FREE GASKET
13235	0	COMPRESSOR TURBINE STATOR ASSEMBLY - REPLACEMENT OF
47-88	1	(SPECIAL INSTRUCTION) C.T SHROUD HOUSING INSPECTION OF WALL THICKNESS

I I HERE BY CERTIFY THAT THE ABOVE MODIFICATIONS HAVE BEEN INCORPORATED IN
THIS ENGINE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

I AUTHORIZED INSPECTOR I :

N. LEE
P&WC SVCE CENTRE





PAGE : 1

MODIFICATION LOG STATUS

PREVIOUSLY INCORPORATED

WORK ORDER : 010098

PCE- 97015

DATE : 04/13/94

PT6A-65R

GAS MODULE

SERVICE BULLETINS

13004	13005	13006	13007	13011	13012	13014
13016	13017	13019	13020	13022	13024	13025
13033	13037	13041	13047	13048	13051	13057
13063	13065	13065.	13065,	13066	13067	13068
13070	13072	13079	13081	13082	13088	13089
13090	13097	13100	13105	13106	13108	13114
13117	13121	13124	13128	13134	13141	13152
13161	13163	13180	13187	13192		

END OF LIST