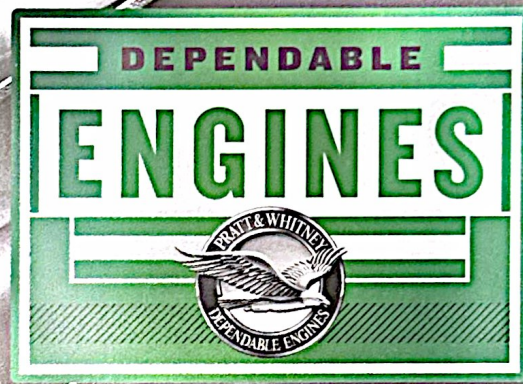


LEFT



ENGINE TECHNICAL LOG

PCE-PZ1161



Pratt & Whitney Canada
A United Technologies Company

WWW.PWC.CA



Transport
Canada

Transports
Canada

TP 14182
(Revised 05/2005)

Engine Logbook

TC1001185



05/2005

Canada

Volume #: 1

Opened on: 02 APR 2011

ENGINE DETAILS

1. Manufacturer Pratt & Whitney Canada Corp.

2. Type/Model/Series E.T.C. E-15 PT6A-135A B/S: 1200

3. Serial Number PCE- PZ1161

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
02 APR 2011	0.0	0.0	0	New engine final acceptance test and inhibiting run completed satisfactorily and is in condition for safe operation.
 	 	 	 	
5-21-11	0	0	0	This engine has been installed on aircraft serial number LJ-2021 LH and has been fully charged with Turbo Oil 2380.

Dale W. Dodd
 Dale W. Dodd
 For Hawker Beechcraft Corporation PC#8

Signature

AME
ACA/AMO
SCA/AMO

D. HORVATH

B. Horvath

T.O. 1-53
NO. 022

Make: PT6A	Reg. No.: N85FD
Model: 135A	Date: 11/18/2011
Serial No.: PCE-PZ1161	W/O No.: 29958
TSN: 113.2 CSN: 65	Page: 1 of 1 Hobbs: 113.2



Engine #1 MAINTENANCE ENTRY

Description of Work Accomplished.

➤ Complied with Initial 100 hour inspection requirements referencing Pratt & Whitney Canada maintenance manual chapter 72-00-00 Table 601.

Approval for Return to Service

The article(s) identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this agency under this work order.

Authorized Signature: *Lou Homsher* Lou Homsher, Chief Inspector

Hawker Beechcraft Factory Authorized Service Center
5360 NW 20th Terrace Fort Lauderdale, Florida 33309

FAA Certificated Repair Station WD4R618M
Phone 954 491 3170 Fax 954 491 1612

Corvallis Aero Service 5695 SW Airport Place Corvallis, OR. 97333

N#: 85FD AFTT: 139.5hr Engine TT 139.5hr Engine cycles 104 DATE: 02-24-2012
Performed engine compressor washes left and right engine. Ground run normal. Done IAW Pratt & Whitney engine manual.

I certify that this ENGINE is airworthy with respect to the work performed. Aircraft returned to service.

W/O# 12-4382

Rodney G Harris
Rodney G Harris 3087913 A&P

Section 1: Record of engine maintenance and elementary work

Make:	Pratt & Whitney Canada			 BANYAN	Reg. No.:	N85FD	
Model:	PT6A-135A				Date:	07/06/2012	
Serial No.:	PCE-PZ1161				W/O No.:	31815	
TSN:	146.6	CSN:	126		Page:	1 of 1	Hobbs: 146.6

Description of Work Accomplished.

Inspections: *Complied with a Phase 1 and Phase 2 inspection referencing Hawker Beechcraft maintenance Manual 90-590012-13B24, Nov. 1, 2011. CAMP 050060, 050070 *Complied with Pratt & Whitney Canada Periodic Minor and Routine inspections. CAMP 057010. *Complied with 200 hr Oil Filter inspection. CAMP 790060 *Complied with 200 hr inspection of inboard and outboard igniters. CAMP 741025, 741035 *Complied with 200 hr Chip Detector inspection. CAMP 790030	Inspections Continued: *Complied with 200 hr P3 Filter inspection and cleaning. CAMP 73310 *Complied with 600 hr/ 12 mth Chip Detector Bridge check. CAMP 790040. Airworthiness Directives/Service Bulletins: *Complied with AD2012-09-10 Power Section Maintenance involving First Stage Sun Gear and Planet Gear. Not applicable by no Power section maintenance has been accomplished since Dec. 22, 2008. Terminating action. AD's checked thru Biweekly: 2012-13
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Approval for Return to Service

The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. Pertinent details of the work performed are on file at this agency under this work order.

Authorized Signature:  Hawker Beechcraft Factory Authorized Service Center 5360 NW 20th Terrace Fort Lauderdale, Florida 33309	Lewis Homsher, Chief Inspector FAA Certificated Repair Station WD4R618M Phone 954 491 3170 Fax 954 491 1612
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WO# 459434 Date: 10/10/2012
 Reg# N85FD Eng. SN: PCE-PZ1161
 Hobbs: 157.5




Elliott Aviation of Minneapolis, Inc.
 Flying Cloud Airport
 13801 Pioneer Trail
 Eden Prairie, MN 55347-2617

Left Engine Log Entry

Maintenance Action

- * Performed Motoring Compressor Wash and CT Rinse, referencing Chapter 71-00-00 of Pratt & Whitney Maintenance Manual. Ground run satisfactory.

I certify this Engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file at this agency under WO#459434.

Signed  for Elliott Aviation of Minneapolis, Inc. KX5R005N
 David Fisher

WO# 459727 Date: 6/26/2013
 Reg# N85FD Eng. SN: PCE-PZ1161
 Hobbs: 297.1
 ETT: 297.1 ETC: 259




Elliott Aviation of Minneapolis, Inc.
 Flying Cloud Airport
 13801 Pioneer Trail
 Eden Prairie, MN 55347-2617

Left Engine Log Entry

Inspection

- * Completed a Phase 3 and 4 Inspection using the Hawker Beechcraft Corp. King Air 90 Series Maintenance Manual Phase 3 and 4 Checklist for LJ-1063 and after.

I certify this Engine has been inspected in accordance with a Phase 3 & 4 inspection per 14 CFR 91.409 (f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order 459727.

Signed  for Elliott Aviation of Minneapolis, Inc. KX5R005N
 Tom Kortisses

Signature

AME
ACA/AMO
SCA/AMO

WO# 460113 Date: 6/16/2014
Reg# N85FD Eng. SN: PCE-PZ1161
Hobbs: 452.9
ETT: 452.9 ETC: 388



Elliott Aviation of Minneapolis, Inc.
Flying Cloud Airport
13801 Pioneer Trail
Eden Prairie, MN 55347-2617

Left Engine Log Entry

Inspection

- * Completed a Phase 1 and 2 Inspection using the Hawker Beechcraft Corp. King Air 90 Series Phase 1 and 2 Checklist for LJ-1063 and After.
- * Complied with Fuel Nozzle Functional/Pattern Check. Performed Borescope Inspection of Hot Section Components. No defects noted.
- * Complied with Compressor Wash and Compressor Turbine Rinse.

I certify this Engine has been inspected in accordance with a Phase 1&2 inspection per 14 CFR 91.409 (e)(1)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed Chad Velta for Elliott Aviation of Minneapolis, Inc. KX5R005N

Chad Velta

WO# 460363 Date: 12/26/2014
Reg# N85FD Eng. SN: PCE-PZ1161
Hobbs: 558.6



Elliott Aviation of Minneapolis, Inc.
Flying Cloud Airport
13801 Pioneer Trail
Eden Prairie, MN 55347-2617

Left Engine Log Entry

Maintenance Action

- * Swapped left engine and right engine flow dividers for troubleshooting referencing PT6A-135A M/M 73-10-04. Leak check and operation normal.

I certify this Engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file at this agency under WO# 460363.

Signed David Nelson for Elliott Aviation of Minneapolis, Inc. KX5R005N

David Nelson

WO# 460363 Date: 12/30/2014
Reg# N85FD Eng. SN: PCE-PZ1161
Hobbs: 561.0



Elliott Aviation of Minneapolis, Inc.
Flying Cloud Airport
13801 Pioneer Trail
Eden Prairie, MN 55347-2617

Left Engine Log Entry

Maintenance Action

- * Installed Overhauled Flow Divider p/n 26035-1/ 3036640E referencing P&WC PT6A-135A M/M 73-10-05. See 8130-3 dated 6-25-2013 from Kansas Aviation of Independence WO. 324846. Leak check and operation satisfactory.

I certify this Engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file at this agency under WO# 460363.

Signed David Nelson for Elliott Aviation of Minneapolis, Inc. KX5R005N

David Nelson

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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WO# 460488 Date: 5/7/2015
 Reg# N85FD Eng. SN: PCE-PZ1161
 Hobbs: 604.9
 ETT: 604.9 ETC: 516



Elliott Aviation of Minneapolis, Inc.
 Flying Cloud Airport
 13801 Pioneer Trail
 Eden Prairie, MN 55347-2817

Left Engine Log Entry

Inspection

- ★ Completed Phase 3 and 4 Inspections using the Beechcraft Corp. King Air 90 Series Maintenance Manual Phase 3 and 4 Checklists for LJ-1063 and after.
- ★ AD 2014-11-05, Effective Date 08/05/14 - PT6 Turboprop Engines PT Blade Failure. Found to be N/A by S/N of Engines currently installed, in reference to Paragraph (c) applicability of this AD.

I certify this Engine has been inspected in accordance with Phase 3 and 4 inspections per 14 CFR 91.409 (e)(f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed  for Elliott Aviation of Minneapolis, Inc. KX5R005N
 Tom Kortisses

WO# 461094 Date: 5/11/2016
 Reg# N85FD Eng. SN: PCE-PZ1161
 Hobbs: 725.8
 ETT: 725.8 ETC: 547



Elliott Aviation of Minneapolis, Inc.
 Flying Cloud Airport
 13801 Pioneer Trail
 Eden Prairie, MN 55347-2617

Left Engine Log Entry

Inspection

- ★ Completed a Phase 1 and 2 Inspection using the Beechcraft Corp. King Air 90 Series Maintenance Manual Phase 1 and 2 Checklist for LJ-1063 and after.
- ★ Complied with 400 hour flow check of fuel nozzles and borescope of hot section components.

Maintenance Action

- ★ Replaced both igniters with New p/n CH34055

I certify this Engine has been inspected in accordance with Phase 1, and 2 inspections per 14 CFR 91.409 (e)(f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed  for Elliott Aviation of Minneapolis, Inc.
 Nathan Ballard CRS# KX5R005N

WO# 461739 Date: 5/19/2017
 Reg# N85FD Eng. SN: PCE-PZ1161
 Hobbs: 884.8
 ETT: 884.8 ETC: 891



Elliott Aviation of Minneapolis, Inc.
 Flying Cloud Airport
 13801 Pioneer Trail
 Eden Prairie, MN 55347-2617

Left Engine Log Entry

Inspection

- ★ Completed a Phase 3 and 4 Inspection using the Beechcraft Corp. King Air 90 Series Maintenance Manual Phase 3 and 4 Checklist LJ 1063 and after.

I certify this Engine has been inspected in accordance with a Phase 3 and 4 inspection per 14 CFR 91.409 (f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed  for Elliott Aviation of Minneapolis, Inc.
 Bob Kortum CRS# KX5R005N

Signature

AME
ACA/AMO
SCA/AMOWO# 462636
Reg# N85FD
Hobbs: 987.4
ETT: 987.4Date: 6/18/2018
Eng. SN: PCE-PZ1161
ETC: 999Elliott Aviation of Minneapolis, Inc.
Flying Cloud Airport
13801 Pioneer Trail
Eden Prairie, MN 55347-2617

Left Engine Log Entry

Inspection

- * Performed Phase 1, and 2 inspections using the Beechcraft Corporation King Air 90 Series Maintenance Manual Scheduled Inspection Program 05-25-01, and 05-25-02, and performed engine Minor Inspection items using the Pratt & Whitney Canada PT6A-135 Maintenance Manual 72-00-00 Table 601, Periodic Inspection.
- * Complied with 1000 hour scavenge oil screen inspection.
- * Performed compressor wash and ct rinse.
- * Complied with fuel nozzle functional test and borescope inspection of hot section in reference to Pratt and Whitney PT6A-135A maintenance manual 73-10-05 and 72-00-00.
- Special Inspection**
- * Complied with 1000 hour oil filter replacement with new p/n 7579522AM.
- Overhaul/Replacement**
- * Installed Overhauled Governor p/n 8210-025-01, s/n 2007247. See 8130-3 dated 5-25-2018 from Kansas Aviation, WO. 168226.
- Installed Overhauled Overspeed Governor p/n 210941REVB, s/n 16267245 on left engine. See 8130-3 dated 6-4-2018 from International Governor Services, WO. 1971449.
- * Complied with 1000 hour P3 filter replacement p/n 3023073.

I certify this Engine This aircraft has been inspected in accordance with a Phase 1 and Phase 2 inspection per 14 CFR 91.409 (f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed

David Nelson
for Elliott Aviation of Minneapolis, Inc.
CRS# KX5R005N

Page 1 of 1

MAINTENANCE RECORD

Date: May 21, 2019	Page 1 of 1 Pages	Reg. No: N85FD
Aircraft: Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,097.2 / 1,097.2 / 1076
#1 Eng: P&WC PT6A-135A	Serial #: PCE-PZ1161	Total Time / Cycles: 1,097.2 / 1076

The below listed items were accomplished in accordance with the Beechcraft King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [], followed, in bold, directly by AD notes and SB's.

Work Order 041909936

- [500] This engine has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).
- [500] **Phase Inspections 3 and 4** were accomplished in accordance with chapters 5-25-03 and 5-25-04 of the Beechcraft King Air® 90 Series Maintenance Manual, P/N 90-590012-13C4, Revised May 1, 2017.
- [500] Minor and Routine Periodic Inspections accomplished i/a/w the PT6A-135A Maintenance Manual, chapter 72-00-00, Table 601.
- [500] Fuel Pump Inlet Screen: Cleaned and inspected.
- [500] Fuel Pump Outlet Filter: Replaced with a new p/n AN6235-3A.
- [500] Ignition: Complied with 400 hour inspection of the ignition exciter, cables, and spark igniters.
- [500] Chip Detector: Complied with 400 hour continuity check and 600 hour/12 month contact bridge test i/a/w the P&WC PT6A-135A Maintenance Manual.
- [457] Complied with 400 hour deceleration check.
- [459] Performance recovery wash complied with.
- [460] Oil sample was sent to Aviation Laboratories for analysis.
- [050] Installed new left engine breather hose, p/n SCDEETS4-116-5.

I certify that this engine has been inspected in accordance with Phase Inspections 3 and 4 and was determined to be in an airworthy condition.

Signed

Central Flying Service, Inc.
1501 Bond Street, Little Rock, AR 72202
THOMAS PAPKA
Phone: (501) 375-3245, (800) 888-5387CRS No. HBKR587E
FAX (501) 374-2150

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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MAINTENANCE RECORD

Date: May 18, 2020	Page 1 of 1 Pages	Reg. No: N85FD
Aircraft: Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,214.7 / 1,214.7 / 1,173
#1 Eng: P&WC PT6A-135A	Serial #: PCE-PZ1161	Total Time / Cycles: 1,214.7 / 1,173

The below listed items were accomplished in accordance with the Textron Aviation King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [], followed, in bold, directly by AD notes and SB's.

Work Order 042010733

- [500] This engine has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).
- [500] **Phase Inspections 1 and 2** were accomplished in accordance with chapters 5-25-01 and 5-25-02 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.
- [500] Minor and Routine Periodic Inspections accomplished i/a/w the PT6A-135A Maintenance Manual, chapter 72-00-00, Table 601.
- [500] Chip Detector: Complied with 600 hour/12 month contact bridge test i/a/w the P&WC PT6A-135A Maintenance Manual.
- [455] Performance recovery wash complied with.
- [456] Oil sample was sent to Aviation Laboratories for analysis.
- [051] Removed and replaced igniters with 2 new p/n CH34055.

I certify that this engine has been inspected in accordance with Phase Inspections 1 and 2 and was determined to be in an airworthy condition.

Signed

Central Flying Service, Inc.

1501 Bond Street, Little Rock, AR 72202

THOMAS PAPKA

Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E

FAX (501) 374-2150

MAINTENANCE RECORD

Date: May 25, 2021	Page 1 of 1 Pages	Reg. No: N85FD
Aircraft: Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,289.4 / 1,289.4 / 1,228
#1 Eng: P&WC PT6A-135A	Serial #: PCE-PZ1161	Total Time / Cycles: 1,289.4 / 1,223

The below listed items were accomplished in accordance with the Textron Aviation King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [], followed, in bold, directly by AD notes and SB's.

Work Order 042111461

- [500] This engine has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).
- [500] **Phase Inspections 3 and 4** were accomplished in accordance with chapters 5-25-03 and 5-25-04 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.
- [500] Minor and Routine Periodic Inspections accomplished i/a/w the PT6A-135A Maintenance Manual, chapter 72-00-00, Table 601.
- [500] P3 Filter: Complied with 200 hour inspection and cleaning.
- [500] Chip Detector: Complied with 600 hour/12 month contact bridge test i/a/w the P&WC PT6A-135A Maintenance Manual.
- [458] Performance recovery wash complied with.
- [459] Oil sample was sent to Aviation Laboratories for analysis.

I certify that this engine has been inspected in accordance with Phase Inspections 3 and 4 and was determined to be in an airworthy condition.

Signed

Central Flying Service, Inc.

1501 Bond Street, Little Rock, AR 72202

THOMAS PAPKA

Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E

FAX (501) 374-2150

Signature

AME
ACA/AMO
SCA/AMO

MAINTENANCE RECORD

Date: May 18, 2022	Page 1 of 1 Pages	Reg. No: N85FD
Aircraft: Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,389.4 / 1,389.4 / 1,292
#1 Eng: P&WC PT6A-135A	Serial #: PCE-PZ1161	Total Time / Cycles: 1,389.4 / 1,285

The below listed items were accomplished in accordance with current FAA regulations, manufacturer's technical data, and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [], followed, in bold, directly by AD notes and SB's.

Work Order 042212082

- [500] This engine has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).
- [500] **Phase Inspections 1 and 2** were accomplished in accordance with chapters 5-25-01 and 5-25-02 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.
- [500] Minor and Routine Periodic Inspections accomplished i/a/w the PT6A-135A Maintenance Manual, chapter 72-00-00, Table 601.
- [500] Chip Detector: Complied with 600 hour/12 month contact bridge test i/a/w the P&WC PT6A-135A Maintenance Manual.
- [500] Oil sample was sent to Aviation Laboratories for analysis.
- [460] Hot Section: Complied with 400 hour borescope inspection.
- [462] Fuel Manifold Adapter and Nozzle Assemblies: Complied with 400 hour leak and function tests.
- [050] Installed new lower left FWD exhaust duct, p/n 11/4TC321X120.

I certify that this engine has been inspected in accordance with Phase Inspections 1 and 2 and was determined to be in an airworthy condition.

Signed

Central Flying Service, Inc.

1501 Bond Street, Little Rock, AR 72202


THOMAS PAPKA

Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E

FAX (501) 374-2150

9519 Airport Drive, Hangar 19
Visalia, CA 93277Left Engine

DATE: 06/14/23	MODEL: PT6A-135A	ACTT: 1475.8	HOBBS: 1475.8
REG: N85FD	S/N: PCE-PZ1161	TSN: 1475.8	TSO: N/A
		CSN: 1307	CSO: N/A
		TSHSI: N/A	CSHSI: N/A

- 1 PERFORM PHASE 3 & 4 INSPECTIONS IAW TEXTRON M/M.


ANDREW VALENTYNE - A&P 4355586

CHRISTIAN CRAWFORD - A&P 3275783

- 2 C/W 12 MO / 600 HR ENGINE - BRIDGE CHECK CHIP DETECTOR
- 3 C/W 200 HR ENGINE - CLEAN/REPLACE/INSPECT PNEUMATIC P3 FILTER/HOUSING
- 4 C/W 400 HR ENGINE - IGNITION SYSTEM - EXAMINE IGNITION EXCITER/CURRENT REGULATOR FOR
- 5 INSTALLATION AND CONDITION
- 6 C/W 400 HR EXAMINE THE OB & IB SPARK IGNITERS FOR CLEANLINESS AND EROSION.
- 7 C/W 400 HR EXAMINE THE IGNITION CABLES FOR CHAFING, WEAR AND INSTALLATION .
- 8 C/W 400 HR CONTINUITY CHECK OF CHIP DETECTOR.
- 9 SERVICE ENGINE WITH 1 NEW 100 HOUR SEAL KIT P/N: PT6-100HR.
- 10 C/W 200 HR ENGINE MINOR INSPECTIONS.


ANDREW VALENTYNE - A&P 4355586

- * I CERTIFY THAT THIS AIRCRAFT WAS INSPECTED IN ACCORDANCE WITH A CURRENT INSPECTION PROGRAM REQUIRED BY FAR 91.409[F][3].
- * APPROVED FOR RETURN TO SERVICE.


ANDREW VALENTYNE - A&P 4355586

CHRISTIAN CRAWFORD - A&P 3275783

PERTINENT DETAILS ON FILE: W.O. 85F061423

