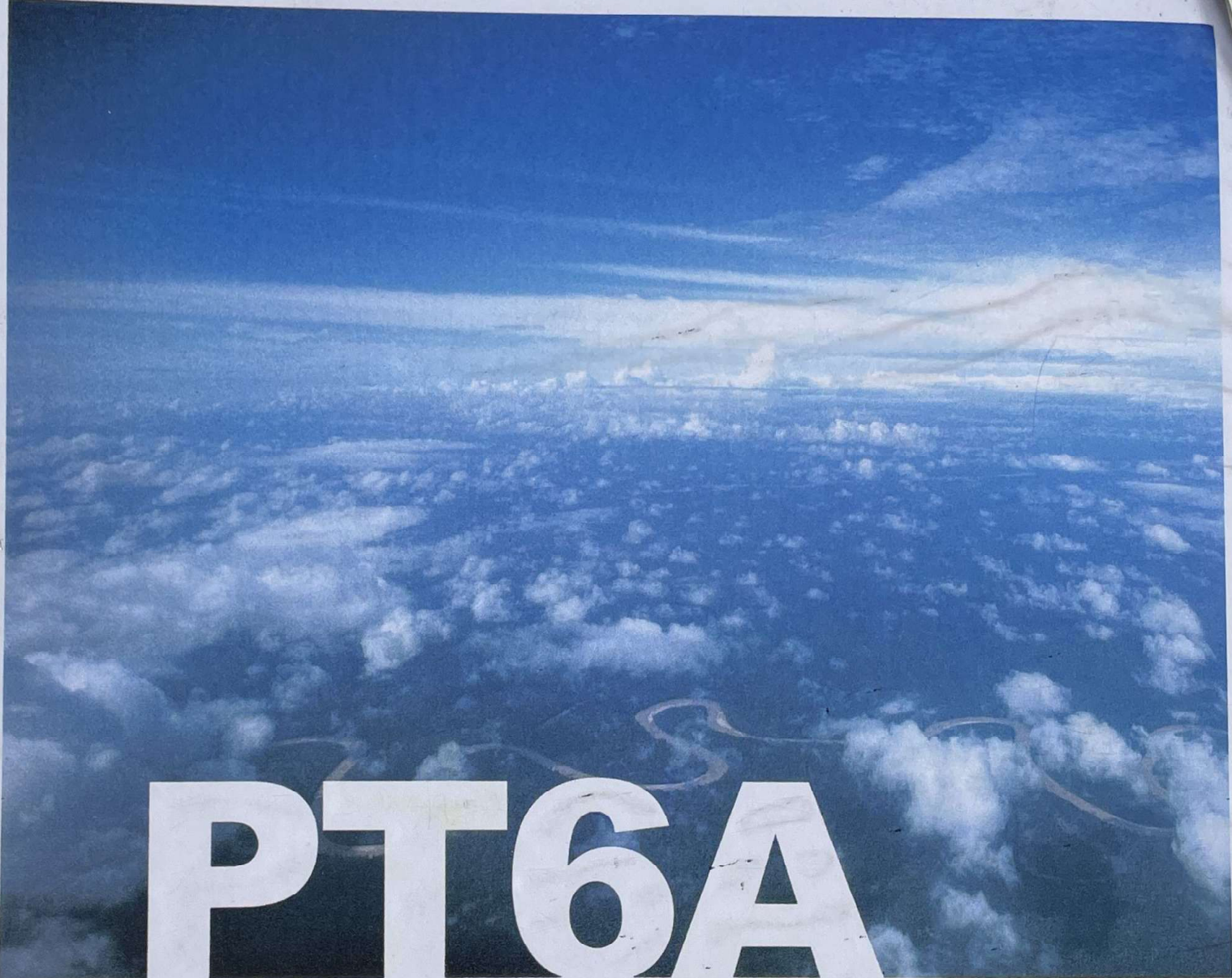




PT6A

ENGINE LOGBOOK

PT6A Turboprop

PCE-PN0099



Pratt & Whitney Canada

A United Technologies Company

PRATT & WHITNEY CANADA CORP. P68 PROGRAM 4.4.04

PT6A-65AG S/N:PCE-PN0099 FINAL ACCEPTANCE TEST RECORD

2008 OCT 26 TEST CELL : 3202 BUILD SPEC.: 1102

ENGINE TESTED AND ACCEPTED IN ACCORDANCE WITH E&TI : 482

FINAL VANE FLOW AREAS FIRST STAGE : 29501 8S1 6.14
SECOND STAGE : 29501 2S4 22.28

PERFORMANCE DATA

		SPEC	ACTUAL
PROP SPEED		1700.	1700.
S.L.S. STD.DAY POWER		1173.	1173.
I.T.T. (T5A TRIMMED)	DEG R	1808.	1724.
T5D (DERIVED)	DEG R	1835.	1760.
GAS GEN. SPEED	RPM	36800	36650.
SFC @ 18400 BTU/LB LB/SHP.HR		0.561	0.545
PRESSURE RATIO @ 36000	RPM	9.63	9.55

FUEL TYPE : CPW 204

TEST LHV : 18540. BTU/LB

S.G. : 0.817 @ 51. DEG F

OIL TYPE : PWA 521 TYPE II

OIL CONSUMPTION : 0.0 LB/HR

T.O. OIL PRESSURE : 123.6 PSI

OIL TEMPERATURE : 154.8 DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 2.0 DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 1.1 DEG C

I.T.T. TRIM CLASS : 20

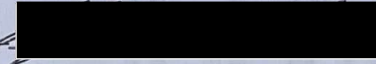
TRIM RESISTANCE : ∞ OHMS

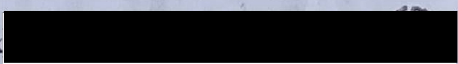
COLD HARNESS RESISTANCE : 1.41 OHMS

B.O.V. SEAT CLASS : 5

HANDLING AND CONTROL SETTINGS

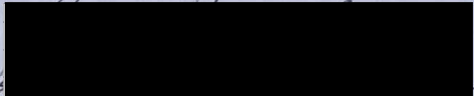
TRIMMED MAX NG	: N/A	RPM
UNTRIMMED MAX NG	: 39000	RPM
DATA PLATE SPEED	: 36650.	RPM
IDLE SPEED	: 21752	RPM
ACCEL. TIME F.I. TO MAX @ T1	: 2.93 SECS @ 50.8	DEGF
ENGINE DRY WEIGHT	: 488.3	LBS.

PRODUCTION SIGNATURE : 

INSPECTION SIGNATURE : 

GOVERNMENT INSPECTOR : _____

THE UNDERSIGNED CERTIFIES THAT THIS RECORD ACCURATELY SETS FORTH THE EVENTS DURING THE TEST MADE ON THE ENGINE THEREIN IDENTIFIED.

DATE 27 OCT 2008 FOREMAN, ASSY.&TEST INSP : 

B. HORVATH



Transport
Canada

Transports
Canada

TP 14182
(Revised 05/2005)

Engine Logbook

POWER SECTION MODULE LOG BOOK

TC1001185



05/2005

Canada

Volume #: 1

Opened on: 27 OCT 2008

ENGINE DETAILS

1. Manufacturer Pratt & Whitney Canada Corp.

2. Type/Model/Series E.T.C. E-12 PT6A-65AG B/S: 1102

3. Serial Number PS- PN0099

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
27 OCT 2008	0.0	0.0	0	New engine final acceptance test completed satisfactorily and is in condition for safe operation.

Air Tractor, Inc. [REDACTED]		Olney, Texas 76374	
FAA Production Approval Holder [REDACTED]			
Date	Engine Model	Engine Serial Number	
March 23, 2009	PT6A-65AG	PCE-PN0099	
Engine - TSN	Engine - Starts	Engine - Flights	Engine - TSO
0	0	0	0
Aircraft Make	Aircraft Model	Aircraft Serial Number	Aircraft - Registration
Air Tractor	AT-602	602-1173	N602BA
			Aircraft - Total Time
			0.0
This engine has been modified in accordance with Supplemental Type Certificate SE8652SW by installation of a flexible hose from the Propeller Primary Governor to the Fuel Control Unit in accordance with Snow Engineering Company Drawing 51654 and Drawing 51653.			
[REDACTED]			
Jim Pollard - Air Tractor, Inc.			

Air Tractor, Inc. [REDACTED]		Olney, Texas 76374	
FAA Production Approval Holder [REDACTED]			
Date	Engine Model	Engine Serial Number	
March 27, 2009	PT6A-65AG	PCE-PN0099	
Engine - TSN	Engine - Starts	Engine - Flights	Engine - TSO
1.0 Hour	3	3	N/A
Aircraft Make	Aircraft Model	Aircraft Serial Number	Aircraft - Registration
Air Tractor	AT-602	602-1173	N602BA
			Aircraft - Total Time
			1.0 Hour
This engine installed, ground run, leak checked and found to operate satisfactory. The aircraft was test flown in accordance with Air Tractor, Inc. Production Flight Test Procedures and Flight Test Form 1006, Revision 5/6/03.			
This engine was found to operate satisfactory and is in condition for safe operation.			
[REDACTED]			
Jim Pollard - Air Tractor, Inc.			

Signature

AME
ACA/AMO
SCA/AMOThis Power Section module is combined with Gas
Generator.S/N: PCE- PN0099NG/√Θ 36650 RPM, at 1173 SHP/δ√ΘITT Trim: 1.1 C°T5 Trim resistance: ∞ OhmsB. HORVATH

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SE8652SW

This Certificate issued to AIR TRACTOR, INC.
[REDACTED]
OLNEY, TX 76374

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 33 of the Federal Aviation Regulations.

Original Product Type Certificate Number: E26NE & E4EA
Make: Pratt & Whitney
Model: PT6A -45R, -60AG, -65AG, -65AR, -65B, -65R, -67AF, -67AG, -67F, -67R

Description of Type Design Change: Installation of a flexible hose from the Propeller Primary Governor to the Fuel Control Unit in accordance with Snow Engineering Company, Drawing 51654, dated June 19, 1993, and Drawing 51653, dated June 18, 1993, or later FAA approved revisions.

Limitations and Conditions: Compatibility of this modification with previously installed equipment must be determined by installer. This installation is applicable to the Pratt & Whitney PT6A-45R, PT6A-60AG, PT6A-65B, PT6A-65AG, PT6A-65R, PT6A-67R, PT6A-67AF, PT6A-65AR, PT6A-67AG, and PT6A-67F Engine Models installed on any Air Tractor Models.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 16, 1993

Date reissued:

Date of issuance: July 01, 1993

Date amended: January 28, 1997; October 10, 2007



By direction of the Administrator

(Signature)
Michele M. Owsley
Manager, Airplane Certification Office
Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
FAA FORM 8130-2(10-68) Page 1 of 3 This certificate may be transferred in accordance with FAR 21.47.

Section 1: Record of engine maintenance and elementary work

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

Engine Type/Model: PT6A-65AG Engine Serial Number: PC-E PN0099
 TSN: 3534.0 CYSN: 3534.0 TSO: n/a CYSO: n/a
 Hobbs: 3534.0

Power section partially disassembled for inspection. Installed O/H power turbine stator housing with new crush seal. Re-assembled power section. All work performed I/A/W current FAA regulations and current manufacturers data. Pertinent details are on file at this facility.
 Work Order No. 03009

Date 18DEC2018

Signed by _____

For: R.T. Turbines Inc.

Marianna, AR. 72360

CRS # _____



FAA Approved Repair Station No. _____ EASA Approved
 Pratt & Whitney Canada Designated Overhaul Facility
 _____ Okmulgee, Ok. 74447 Ph: _____ Fax: _____

Date: July 9, 2020	Tach/Hobbs: 4114.0	Engine Model: PT6A-65AG	Engine S/N: PCE-PN0099	Acft. Reg. No: N602BA
Eng. Total Time: 4114.0	TSOH: N/A	Eng Total Cycles: Ref SB 1320R5	Starts: UNK Flights: UNK	Acft. Mod/Ser No: AT602-1173

Received this engine as installed on this aircraft to troubleshoot binding prop after shut down. Performed pre-work performance run. Removed prop, and split engine at the C-flange. Disassembled power turbine section cleaned, and inspected for rubs. Checked run-out of 1st, and 2nd stage power turbines. Found 1st stage out of round. Skimmed cut both 1st, and 2nd stage power turbines to establish proper shroud to tip clearance. Reassembled power turbines, and safetied as required. Reinstalled power section, and prop. Ground run leak check good. All work was performed reference PWC OHM 3032843R50, EMM 3032842R62.2, AT602 Owner's Manuals, or other data acceptable to the administrator.

MAINTENANCE RELEASE: This certifies that the work specified above was carried out in accordance with Federal Aviation Regulations and current manufacturer's specifications. In respect to the work performed, the engine/component is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No: 0220223031
 Date: July 9, 2020
 Authorized Signature: _____



FAA Approved Repair Station No. _____ EASA Approved
 Pratt & Whitney Canada Designated Overhaul Facility
 _____ Okmulgee, Ok. 74447 Ph: _____ Fax: _____

Date: January 13, 2022	Tach/Hobbs: 5065.2	Engine Model: PT6A-65AG	Engine S/N: PCE-PN0099	Acft. Reg. No: N602BA
Eng. Total Time: 5065.2	TSO: N/A TSHSI: -0-	Eng Total Cycles: Ref SB 1320R7	Starts: 3987 Flights: 5322	Acft. Mod/Ser No: AT602-1173

Received engine as installed on this aircraft for hot section inspection including fuel nozzles. Performed pre-split engine run for performance data. Split engine at C flange for HSI. Removed hot section components. Cleaned and inspected all parts as required. Inspection indicated the CT blades were due for 3000hr blade stretch check. CT disk was debladed and all parts cleaned and NDT'd. Installed new segments. Run out on CT disk and blades was acceptable. Lapped all sealing surfaces as required. Assembled compressor for FOD, none found. Installed 2 new interstage seal rings due to lost resiliency. Inspected 1st stage chip detector due to broken pin. Installed new oil filter. Spray checked fuel nozzle assemblies, checked good. Inspected and functional checked ignition system; replaced 2ea igniters. Checked calibration of ITT and torque gauge for accuracy, checked ok. Serviced engine with 2380 turbine oil. Performed compressor wash. Ground run and leaked checked engine with results satisfactory. All work done in accordance with manufactures manuals or other applicable data.

MAINTENANCE RELEASE: This certifies that the work specified above was carried out in accordance with Federal Aviation Regulations and current manufacturer's specifications. In respect to the work performed, the engine/component is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No: 0220225023
 Date: January 13, 2022
 Authorized Signature: _____



Transport
Canada

Transports
Canada

TP 14182
(Revised 05/2005)

Engine Logbook

GAS GENERATOR MODULE LOG BOOK

TC1001185



05/2005

Canada

TECHNICAL RECORD

INSTRUCTIONS FOR USE

Volume #: 1

Opened on: 27 OCT 2008

ENGINE DETAILS

1. Manufacturer

Pratt & Whitney Canada Corp.

2. Type/Model/Series

E.T.C. E-12 PT6A-65AG B/S: 1102

3. Serial Number

PCE- PN0099

[illegible]

Air Tractor, Inc.		[REDACTED]		Olney, Texas 76374	
FAA Production Approval Holder [REDACTED]					
Date		Engine Model		Engine Serial Number	
March 27, 2009		PT6A-65AG		PCE-PN0099	
Engine - TSN		Engine - Starts		Engine - Flights	
1.0 Hour		3		3	
Aircraft Make		Aircraft Model		Engine - TSO	
Air Tractor		AT-602		N/A	
Aircraft Serial Number		Aircraft - Registration		Aircraft - Total Time	
602-1173		N602BA		1.0 Hour	
This engine installed, ground run, leak checked and found to operate satisfactory. The aircraft was test flown in accordance with Air Tractor, Inc. Production Flight Test Procedures and Flight Test Form 1006, Revision 5/6/03. This engine was found to operate satisfactory and is in condition for safe operation. [REDACTED] Jim Pollard - Air Tractor, Inc.					

This Gas Generator module is combined with
Power Section.

S/N: PS- PN0099

NG/NO 36650 RPM, at 1173 SHP/δ/0

ITT Trim: 1.1 C°

T5 Trim resistance: ∞ Ohms

Signature

AME
ACA/AMO
SCA/AMO

B. HORVATH

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SE8652SW

This Certificate issued to AIR TRACTOR, INC.
OLNEY, TX 76374

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 33 of the Federal Aviation Regulations.

Original Product Type Certificate Number: E26NE & E4EA

Make: Pratt & Whitney

Model: PT6A -45R, -60AG, -65AG, -65AR, -65B, -65R, -67AF, -67AG, -67F, -67R

Description of Type Design Change: Installation of a flexible hose from the Propeller Primary Governor to the Fuel Control Unit in accordance with Snow Engineering Company, Drawing 51654, dated June 19, 1993, and Drawing 51653, dated June 18, 1993, or later FAA approved revisions.

Limitations and Conditions: Compatibility of this modification with previously installed equipment must be determined by installer. This installation is applicable to the Pratt & Whitney PT6A-45R, PT6A-60AG, PT6A-65B, PT6A-65AG, PT6A-65R, PT6A-67R, PT6A-67AF, PT6A-65AR, PT6A-67AG, and PT6A-67F Engine Models installed on any Air Tractor Models.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, recalled or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 16, 1993

Date reissued:

Date of issuance: July 01, 1993

Date amended: January 28, 1997; October 10, 2007

By direction of the Administrator

(Signature)

Michele M. Owsley
Manager, Airplane Certification Office
Southwest Region

(Title)



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2 (10-66)

Page 1 of 2

This certificate may be transferred in accordance with FAR 21.47.

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task	
Date: 04/03/2023		REG: N602BA		TSN: 5556.6	Cycles:
SN: PCE-PN0099		PT6A-65AG		TSO:-----	
Performed a Annual inspection in accordance with 14 CFR Part 43 appendix D and PWC Maintenance Manual. No defects found. Removed engine oil filter, cleaned and inspected for debris. None found. Removed and tested engine chip detectors and airframe system. Replaced fuel filter and cleaned fuel screen. Drained engine oil and replaced with new 7 qt 2380. Installed OH set of fuel nozzles from Heritage Turbines. See 8130 in logs. Installed new fuel flow transducer PN: 660534S. K factor adjusted on gauge 23.4. Engine ground run and leak check good. All work performed IAW PWC Maintenance Manual. I certify this engine has been inspected IAW an Annual inspection was determined to be in an airworthy condition.					
Miles Morgan A&P IA [REDACTED]					

Date: 09/21/2023		REG: N602BA		TSN: 6001.4	Cycles:
SN: PCE-PN0099		PT6A-65AG		TSO:-----	
Performed a 100 hr in accordance with 14 CFR Part 43 appendix D and PWC Maintenance Manual. No defects found. Removed engine oil filter, cleaned and inspected for debris. None found. Removed and tested engine chip detectors and airframe system. Replaced fuel filter and cleaned fuel screen. inspected and lubricated AC Drive pad gull shaft splines. Installed OH set of fuel nozzles from Heritage Turbines. See 8130 in logs. Performed compressor wash. Engine ground run and leak check good. All work performed IAW PWC Maintenance Manual. I certify this engine has been inspected IAW an 100 hour and was determined to be in an airworthy condition.					
Miles Morgan A&P IA [REDACTED]					

GEORGE'S AIRCRAFT REPAIR, LLC

[REDACTED], VERNON, TX 76384 [REDACTED]
 5/7/2024 AT602-1173 N602BA HOBBS: 6278.5
 MODEL # PT6A-65AG SERIAL # PC-E PN0099 ENG TSN: 6278.5
 PERFORMED A 100HR INSPECTION THIS DATE. CLEANED AND PATTERN FLOW CHECKED FUEL NOZZLES. CLEANED FIREWALL FUEL FILTER ELEMENT. INSTALLED NEW HIGH PRESSURE PUMP FILTER. INSPECTED AND OP'S CHECKED CHIP DETECTOR. CHECKED ALL RIGGING AND CONTROLS FOR SECURITY. INSTALLED NEW ENGINE AIR FILTER. SERVICED ENGINE WITH 2 QUARTS 2380 OIL AND GROUND RUN SATISFACTORY. NO ENGINE AD'S APPLICABLE AT THIS TIME. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS FOUND TO BE AIRWORTHY AT THIS TIME. END. [REDACTED] A/P [REDACTED] A/I

Date: 06-18-24

SN: PCE-PN0099

Reg: N602BA

TSN: 6454.0

PT6A-65AG

Cycles:

Performed a 100 hr inspection IRT PWC maintenance manual 72-00-00 table 601.. Removed and cleaned oil filter. Replaced fuel filter. Cleaned p3 filter. Engine ground run and leak check good. I certify this engine has been inspected IRT an 100 hr inspection and was determined to be in an airworthy condition.

Miles Morgan A&P



Date: 8-22-24

SN: PCE-PN0099

Reg: N602BA

TSN: 6702.8

PT6A-65AG

Cycles:

Removed fuel nozzles and installed overhauled kit from Heritage Turbines using new o-rings and gaskets. See 8130 in aircraft records. Removed and Replaced oil filter PN 3059258-01. Replaced fuel filter. Cleaned p3 filter. Engine ground run and leak check good. Work performed IAW PWC65AG Maintenance Manual and was determined to be in an airworthy condition.

Todd Farnik A&P

