

56717
VOLUME NO.

old

N 40203

SECTION III

ENGINE

LOG

23 84



**AIRFORCE
TURBINE
SERVICE**

N1035F

AIRCRAFT ENGINE

LOGBOOK NUMBER 2

PT6A- 34 AG

PCE 56717

FAA APPROVED REPAIR STATION TQZR133K
P.O. BOX 146
TYNAN, TEXAS 78391

361-
PHONE ~~(512)~~ 547-3386
FAX ~~(512)~~ 547-7273
361-

AIRFORCE TURBINE SERVICE

P.O. BOX 146

TYNAN, TEXAS 78391

361-512-547-3386

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ENGINE LOG

1. Make Pratt & Whitney
2. Model PT6A-34AG
3. Specification _____
4. Manufacturer's Serial Number PCE 56717
5. Date of Manufacture March 1980
6. Aircraft Inspection Cycle _____

MAINTENANCE

Parts List
84893
ATS/Gilbert Aviation
58757
1/30/08
34AG

[illegible]

MAXIMUM HOURS B

[illegible]

ENGINE SERVICE AND

DATE TIME RUN TIME SINCE PREVIOUS OVERHAUL
HRS MIN HRS MIN

INSTALLATION, REPAIRS, ETC.
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR CLARITY

7-1-2009 4885.5 Installed This engine on

-13-07 4885.522 Starter Generator & Ground

Comply with 100 hr insp service

prop Run - up - pass up

Comply with 100 hr Insp Take oil

ch. 25% worn

Filters, Clean Air Intake Filter

Batteries, ch. p-3 filter, Run

Comply with 100 hr Insp Take

ch. p-3, Lube Controls, Run

Change Fuel Filters, install new PS

100WPCN. Install Fuel Nozzles, Lube

Installed new Oil Road Comp

Valley Air Craft

Engine Entry

DATE: 7-1-2009

TIME RUN: 4885.5

TIME SINCE PREVIOUS OVERHAUL: 4885.522

7-6-2011 4885.522

Comply with 100 Hr Insp Take

ch. Splines, Change Fuel Filters,

Batteries, Blow Carbon out Starter/Gen,

Compressor wash, Run - up

8-31-2011 4885.522

Comply with 100 Hr Insp, Change oil filter,

Intake Filter, Blow Carbon out

Check injectors.

TOTAL TIME SINCE PREVIOUS OVERHAUL

TOTAL TIME SINCE PREVIOUS OVERHAUL

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTER: SHOW A TABULAR LIST THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS

SIGNATURE

LICENSE NUMBER

7-1-2009 4885.5 Installed overhauled

run O.R. 100/1000, Pass 100/1000, 100/1000

batteries, ch. p-3 filter, ch. Air intake filter,

Drive Gearbox - Change Fuel Filters, Change

Sample + Fine Filter, Change Fuel Nozzles,

Grease Hyd Syst Splines, Change Fuel

Grease prop, Lube Controls, Service

up.

Sample Sample, Change Hyd. gearbox oil,

Filters, Clean Intake Filter, Grease prop

up.

Change Hyd. gearbox oil, Lube Hyd Splines,

Filters, Clean Intake Filter, Grease prop

Carbon out of starter generator, Run

controls Run - up

also DEAD 10/10/11

7-6-2011 4885.522

SOAP Sample, Change HYD gearbox oil, Lube

Clean Intake Filters, Grease Prop, Checked

Starter brushes 25% worn, Lube controls,

8-31-2011 4885.522

Change Hyd gearbox oil, Lube Hyd Splines, Clean

Starter. Lube controls, Change prop filter,

7-5-2011 4885.522

MAXIMUM HOURS BETWEEN OVERHAULS

HOURS

MAINTENANCE RECORD

DATE FOR CORRECT			PERFORM ADJUSTMENTS, REPAIRS, ETC. IN DATE AND TIME COLUMN		SIGNATURE	LICENSE NUMBER
10-1-2012	Habib	5930	C/W 100 hr insp. Starter gen. Oil Sample Taken, oil oil screen. Drive & Spline Hpd gear box. Intake filter.	40% worn brushes, Function ok chip spot. Change Fuel Filters, Grease pump. Grease all Hpd Splines, Clean air	Kingman-PP472523	
10-1-2012	Habib	5930	Remove Starter Gen S/N 92000. Check Motor, Insp, Check chip detector. Drain and service hyd gear box. Check No. 1 water Clean & Grease.	INSTALL S.N. 92938. Service to 9285. Oil sample taken, change fuel filters. Grease all splines, Clean air intake. Fuel nozzles, Ground run O.K.	Kingman-PP472523	
11-2-2013	Habib	6063	Remove chip detector & inspect wiring. Reinstall filter. Replaced pump & high pressure hydraulic gear box. Inspect Suction oil filter.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
10-7-2013		61800	Remove chip detector & inspect wiring. Patch Check to Avlab inspect P. filter. Grease hydraulic Pump inspect.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
10-7-2013		61800	Replaced Fuel Nozzles. Cleaned and Replaced chip detector & inspect wiring.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
11-13-2014		62782	Patron check to Avlab, inspect P. filter. Replaced H/O Pumps, inspected Balance Proller, Final Etc.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
11-20-2014		62782	Comply with hot section inspection. Vane ring Replaced with South out clearance To air all around.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
12-12-2014		62782		Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	
10-8-2015	Habib	6407	C/W 100 hr insp. Flow starter, brush at 5% worn, Wash engine exterior, Oil Sample, Rise oil filter, Change eng and fuel filter. Hyd pump gear box, Lube Hpd splines, Run up - ground up.	Re installed Grease Pump. Rise oil screen, inspect P. filter. Replaced fire wall & high pressure fuel filter. Grease hydraulic pump, Rk oil in brush, inspected eng. Mt. A.D., Clean & Reinstall.	Kingman-PP472523	

TOTAL THIS PAGE
TOTAL FROM
PREVIOUS PAGES
TOTAL
SINCE 1982

CARRIED FORWARD

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS

TIME RUN		TIME SINCE NEW/OVERHAUL	
HRS.	MINS.	HRS.	MINS.

INSTALLATIONS, INSPECTIONS,
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR

ENGINE MODEL:
PT6A-34AG
ENGINE S/N: PCE-56717
REG. NO: N1035F
WORK ORDER:
4704-05-2021



Valley Air Crafts.

P.O. BOX 566
Tulare, California 93275
Phone: 559-686-7401

DATE: 6/7/2021
A/C TSN:
ENG TT:
TSMOH: 1605.2
HOBBS: 8500.9

Engine Entries

(1) Removed the engine from aircraft N1035F, an Air Tractor AT-502.... (2) Split the engine at the "C" flange. Removed the hot section including the combustion liner, the CT disc and blade assembly, guide vane assembly, and the large exit duct. Inspected all of the components for condition. Reassembled the components in to the gas generator case. CT disc P/N 3013411 s/n 40B097, guide vane assembly P/N 3032151 s/n 401-1 class 5.97, and combustion liner P/N 3022527. CT blade tip to segment clearance measured at .012" - .013". ITT thermocouples checked and found okay. Reinstalled power section and placed engine on a shipping skid.

DATE: 6/7/2021

SIGNED:

Work Order: 4704-05-2021

Michael Schoenau, A&P: 3262337

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1 of 1

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 8929.2 5/10/2022
PT6A-34AG S/N PCE-56717. TSMOH 1605.2

Removed engine PT6A-27 S/N PCE-41211, Installed engine P/N PT6A-34AG S/N PCE-56717, TSMOH at installation 1605.2. Engine ground ran and leak checked, then test flown, found satisfactory. Return to service.

END
Robert L. Montgomery AP347972IA

HOBBS: 9034.7 7/16/2022

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 8929.2 5/10/2022

PT6A-34AG S/N PCE-56717. TSMOH 1605.2

Removed engine PT6A-27 S/N PCE-41211, Installed engine P/N PT6A-34AG S/N PCE-56717. TSMOH at installation 1605.2. Engine ground ran and leak checked, then test flown, found satisfactory. Return to service.

[Signature] END
Robert L. Montgomery AP3439772IA

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 9034.7 7/16/2022

Performed 100 hr Inspection IAW Pratt and Whitney Maintenance Manual and FAR 43 Appendix D. Starter brushes checked, spline gear greased. I certify that this engine has been inspected IAW Pratt and Whitney 100 hour Inspection and FAR 43 Appendix D and is deemed in an airworthy condition for safe operation. Return to service.

[Signature] END
Robert L. Montgomery AP3439772IA

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 9139.4 ACTT: 14766.2 3/9/2023

Performed Annual Inspection IAW Pratt and Whitney Maintenance Manual and FAR 43 Appendix D. Fuel nozzles were removed cleaned and flow checked re-installed nozzles. Starter brushes checked spline gear greased. Prop greased. Inlet and first stage blades checked for damage and cleanliness. Bulkhead filter removed and replaced with new. Fuel pump filters removed and cleaned. P3 air system checked, checked exhaust duct for cracks, none found. Serviced all fluids. Aircraft ground run and leak checked, found satisfactory. AD's checked through bi-weekly 2023-06. I certify that this engine has been inspected IAW Pratt and Whitney Annual Inspection and FAR 43 Appendix D and is deemed in an airworthy condition for safe operation. Return to service.

[Signature] END
Robert L. Montgomery AP3439772IA

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 9229.7 6/12/2023

Performed 100 hr Inspection IAW Pratt and Whitney Maintenance Manual and FAR 43 Appendix D. Starter brushes checked, spline gear greased. I certify that this engine has been inspected IAW Pratt and Whitney 100 hour Inspection and FAR 43 Appendix D and is deemed in an airworthy condition for safe operation. Return to service.

[Signature] END
Robert L. Montgomery AP3439772IA

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 9340.2 11/2/2023
Performed 100 hr Inspection IAW Pratt and Whitney Maintenance Manual and FAR 43
Appendix D. Starter brushes checked, spline gear greased. I certify that this engine has been
inspected IAW Pratt and Whitney 100 hour Inspection and FAR 43 Appendix D and is deemed
in an airworthy condition for safe operation. Return to service.

Robert L. Montgomery AP3439772IA END
E Robert L. Montgomery AP3439772IA

SIGNA

N45363 AIR TRACTOR S/N 402-0774 HOBBS: 9417.5 ACTT: 15044.3 3/1/2024
Performed Annual Inspection IAW Pratt and Whitney Maintenance Manual and FAR 43
Appendix D. Fuel nozzles were removed cleaned and flow checked re-installed nozzles.
Starter brushes checked spline gear greased. Prop greased. Inlet and first stage blades
checked for damage and cleanliness. Bulkhead filter removed and replaced with new. Fuel
pump filters removed and cleaned. P3 air system checked, checked exhaust duct for cracks,
none found. Serviced all fluids. Aircraft ground run and leak checked, found satisfactory. AD's
checked through bi-weekly 2024-05. I certify that this engine has been inspected IAW Pratt
and Whitney Annual Inspection and FAR 43 Appendix D and is deemed in an airworthy
condition for safe operation. Return to service.

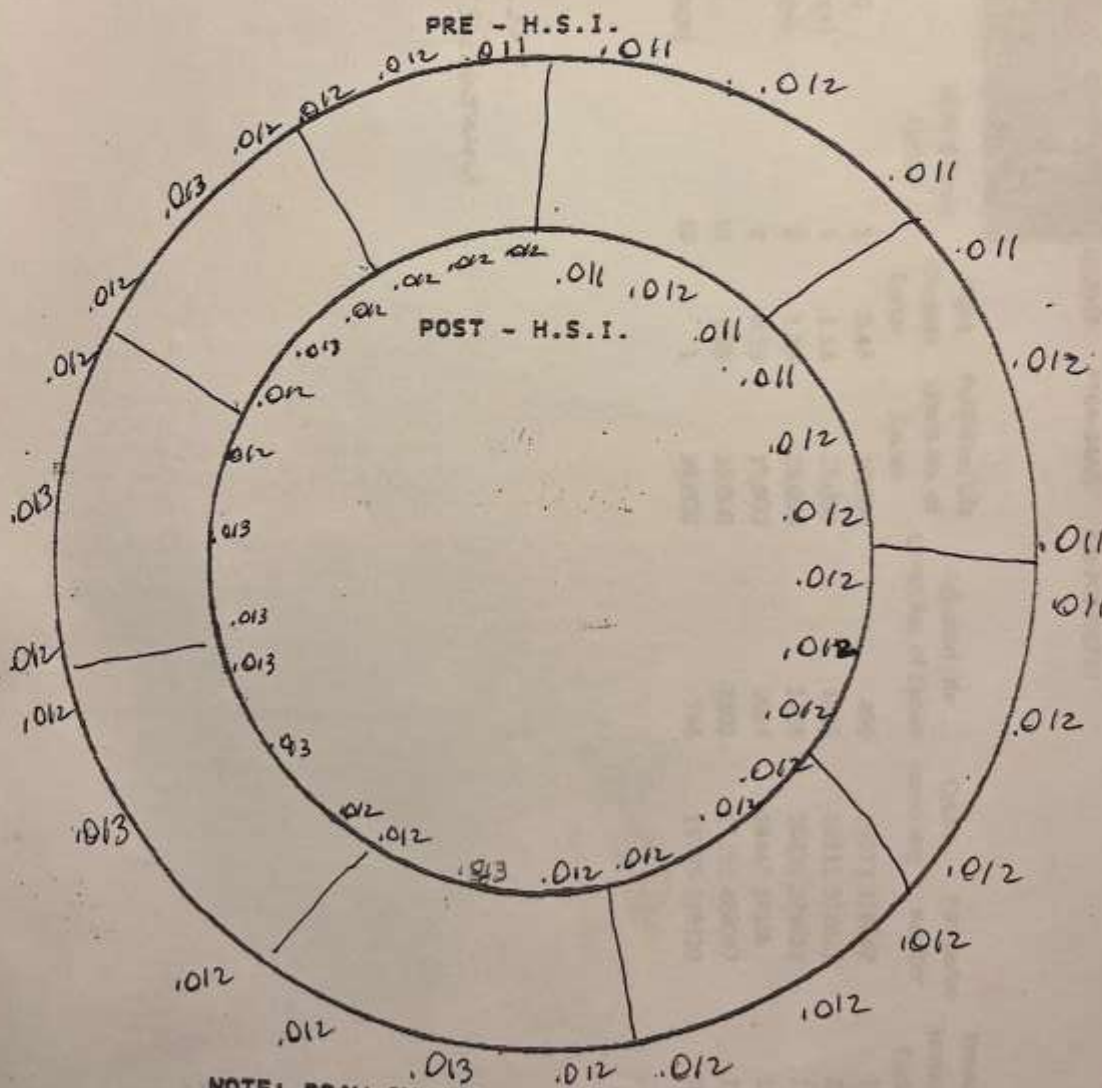
Robert L. Montgomery AP3439772IA END
Robert L. Montgomery AP3439772IA

6/1/2021

PTGA-34AG

S/N PCE-56717

C.T./H.T. TIP CLEARANCE CHART



NOTE: DRAW IN SEGMENT DIVISION LINES

PT6A-34AG Rotor Components Cycle Calculator I/A/W PWC SB 1302R6

5/30/2019

No. of Starts

No. of Landings

N1035F

PT6A-34AG

s/n PCE-56717

Enter Scenario

419

3670

Component P/N	Component Desc	Abbr'd Cycle Factor	Flight Counter Factor	Published Life Limits No. of Cycles	Adjusted Life Limits No. of Cycles	Cycles Remaining	Part serial number	Previous Remaining Cycles
3013111	Hub, Compressor (1st Stage)	5	0.43	19,000	460	15073	358647	15533
3013712	Rotor, Compressor (2nd Stage)	5	1.33	24,000	1422	19111	378622	20533
3011713	Rotor, Compressor (3rd Stage)	5	1.13	25,000	1208	20325	378611	21533
3013176	Impeller, Centrifugal	2	0.53	19,000	1084	14449	8F106	15533
3013411	Disk, Compressor Turbine	10	1.75	16,000	1302	11231	408097	12533
3022412	Disk, Power Turbine (1st Stage)	10	1	24,000	744	15789	398920	16533

AP 3262337
Michael Schuster