



Transport  
Canada

Transports  
Canada

TP 14182  
(Revised 05/2005)

# Engine Logbook

TC1001185  
05/2005



Canada

The subject aircraft was involved in an incident / accident on 8/10/2025 rendering it a Constructive Total Loss as not repairable within its insured value. For further details refer to insurance claim: 8283953852US.

Signed: ***Underwriters Salvage Company***

Date: **11/17/2025**

AIG Aerospace Adjustment Services Inc  
3500 Lenox Road, Suite 1100  
Atlanta, GA 30326

## Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
N502WF				
DATE: 4/14/2025 TACH: 6936.0 ETT: 6936.0 TSHOT: 21.5 INSPECT ENGINE MOUNTS. CLEAN AND INSP FIREWALL FUEL FILTER. FABRICATE NEW START/GEN DRAIN LINE. BLOW OUT START/GEN AND INSTALL NEW O-RING. INSTALL NEW INDUCTION AIR FILTER P/N: BA-409E. INSTALL NEW RG24-20 CONCORDE AIRCRAFT BATTERIES S/N'S: 41425979 AND 41425976. WASH ENGINE. GROUND RUN - LEAK CHECK - NO LEAKS THIS DATE. AD'S CHECKED THRU BI-WEEKLY LISTING 07-2025. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100HR/ ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. JONATHAN COLLETT IA2927653	<i>John M</i>			
N502WF				Butterfly Aviation, Inc. Goodland, KS. DATE: 7/11/2025 HOBBS: 7014.0 REMOVE, INSPECT, CLEAN & REINSTALL FIREWALL FUEL SCREEN, P3 FILTER & FUEL PUMP INLET SCREEN. REMOVE, INSPECT & REINSTALL NEW OIL FILTER. FILTER INSPECTION- OK. INSTALL NEW FUEL PUMP FILTER. REMOVE, INSPECT, CLEAN, TEST & REINSTALL CHIP DETECTOR. INSPECT ENGINE CONTROLS FOR TRAVEL & LUBE. INSPECT AIR FILTER. INSPECT & TEST IGNITERS. INSPECT CARBON BETA BLOCK- WITHIN LIMITS. INSPECT STARTER/GENERATOR BRUSHES- OK. INSPECT PROP HUB, BLADES, SPINNER AND ASSEMBLY. LUBE HUB W/AEROSHELL #6. SERVICE BATTERIES. C/W AD09-11-05 - ENGINE MOUNT CLUSTER - INSPECT AS PER AD AND AT SL 253 - NO CRACKS FOUND THIS DATE. NEXT INSP DUE HOBBS: 7114.0. WASH ENGINE. GROUND RUN - LEAK CHECK - OK. JONATHAN COLLETT AP2927653
MAKE: AIR TRACTOR N502WF HOBBS: 7113	MODEL: AT502B ENGINE MODEL: PT6A-34AG TT: 7113	S/N: 26454 ENGINE S/N: PCE-PH0451 DATE: 7/30/2025		<ul style="list-style-type: none"> <li>Completed engine 100hr inspection items</li> <li>Removed oil filter, inspected contents for abnormal material, cleaned and reinstalled with new o-rings</li> <li>Removed FCU bowl filter replaced element and reinstalled with new o-rings</li> <li>Removed FCU inlet screen, cleaned, inspected and reinstalled with new o-rings.</li> <li>Removed air inlet filter and replaced with new filter</li> <li>Inspected starter generator for security of cables, mount</li> <li>Engine ground ran, leak checked, and is found to be (OK)</li> <li>Maintenance performed IAW manufacturer's maintenance manual instruction and FAR 43 appendix D</li> <li>I certify that this engine has been inspected in accordance with the requirements of an 100hr inspection and is found to be in an airworthy condition at this time</li> </ul> <p>William L Rutland AP4496746IA</p> <p><i>John M</i></p>

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO																																																																								
Crabbe Aviation P. O. Box 534 Mechanicsville, VA 23111 ACFT MODEL: AT502B-34	REG NO: N502WF A/C TT: 6801.4 Engine TT: 6801.4	DATE: 07/16/2023 WORK ORDER # 07162023 Hobbs: 6801.4																																																																												
<p>"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.</p> <p>The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.</p> <p>25-hour inspection items Air Tractor AT-502A/ pgs 1-6.</p> <p>Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.</p> <p>Removed and cleaned PC filter.</p> <p>Removed, function tested, cleaned, and reinstalled engine chip detectors.</p> <p>Inspected Starter brushes.</p> <p>Replaced engine fuel filter element.</p> <p>Ops checks, Ground run, Leak check complete.</p>				<p><b>Accessory Log:</b></p> <table> <thead> <tr> <th>Serial #:</th> <th>PC-E PH0451</th> <th>Model:</th> <th>PT6A-34AG</th> <th>W/O #</th> <th>3883</th> <th>TSN:</th> <th>6914.5</th> </tr> </thead> <tbody> <tr> <td><u>Name</u></td> <td></td> <td><u>Part#</u></td> <td></td> <td><u>Serial#</u></td> <td></td> <td><u>TSO</u></td> <td></td> </tr> <tr> <td>Fuel Pump</td> <td>386101-5</td> <td></td> <td>002753</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Fuel Control</td> <td>4138008-3</td> <td></td> <td>C76106</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Flow Divider</td> <td>25536-4</td> <td></td> <td>12838</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Fuel-Oil Heater</td> <td>10552E</td> <td></td> <td>4443</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Bleed Valve</td> <td>3100829-03</td> <td></td> <td>1A436</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>CSU</td> <td>8210-002</td> <td></td> <td>12317857</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>OSU</td> <td>210507</td> <td></td> <td>16542176</td> <td></td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Serial #:</b> PC-E PH0451      <b>Model:</b> PT6A-34AG      <b>W/O #</b> 3883      <b>TSN:</b> 6914.5</p> <p><b>A.D. List</b></p> <ul style="list-style-type: none"> <li>80-08-12 Not applicable by part number, no further action required</li> <li>90-12-05 Not applicable by ESN, no further action required</li> <li>97-04-12 Complied with at BOV overhaul, no further action required</li> <li>2002-23-13 No previous repairs, no action required</li> <li>2011-20-51 Not applicable by part number, no further action required</li> <li>2011-25-12 Not applicable by part number, no further action required</li> <li>2014-11-05 Previously complied with, no further action required</li> <li>2022-08-13 Not applicable by part number, no further action required</li> </ul> <p><b>MAKE:</b> Air Tractor      <b>MODEL:</b> AT502B      <b>S/N:</b> 2645</p> <p><b>N502WF</b>      <b>ENGINE MODEL:</b> PT6-34AG      <b>ENGINE S/N:</b> PC-E PH0451</p> <p><b>HOBBS: 6915.7</b>      <b>TT:</b> 6915.7      <b>DATE:</b> 4/29/2024</p> <p>Removed Engine from airframe for IRAN at RT Turbines, see work order No. 3883. Reinstalled engine with new engine isolation mounts and hardware IAW AIR TRACTOR and P&amp;W Maintenance Manual</p> <ul style="list-style-type: none"> <li>• Cleaned airframe fuel filter and complied with AIR TRACTOR SL#361 by replacement of both sealing washers</li> <li>• Replaced barrier air filter</li> <li>• Engine ground ran, leak checked and is approved for return to service.</li> </ul> <p>I certify that this engine is found to be in an airworthy condition at this time.</p> <p>William L Rutland AP4496746 IA</p>			Serial #:	PC-E PH0451	Model:	PT6A-34AG	W/O #	3883	TSN:	6914.5	<u>Name</u>		<u>Part#</u>		<u>Serial#</u>		<u>TSO</u>		Fuel Pump	386101-5		002753		0			Fuel Control	4138008-3		C76106		0			Flow Divider	25536-4		12838		0			Fuel-Oil Heater	10552E		4443		0			Bleed Valve	3100829-03		1A436		0			CSU	8210-002		12317857		0			OSU	210507		16542176		0		
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6914.5 Hobbs	FOUND METAL IN OIL FILTER REMOVED ENGINE WLR																																																																													
Engine Type/Model: PT6A-34AG TSN: 6914.5 CYSN: 6914 Hobbs: 6914.5	Engine Serial Number: PC-E PH0451 T/SO: n/a CYSO: n/a																																																																													
<p>Engine disassembled for MIO and GG IRAN. Installed O/H #6 bearing. Installed new prop shaft seal and new seal runner. Complied with hot section inspection. Installed O/H CT vane s/n HLA913C efa: 6.07, O/H small exit duct, and new segments. Installed 58 ea. new P&amp;WC CT blades p/n 3045741-01 and balanced CT disk. Installed O/H combustion liner and O/H large compressor assembly. Installed O/H gas generator case. Installed O/H fuel nozzles. Re-assembled and tested engine satisfactorily. Installed new oil filter. All work performed I/A/W current FAA regulations and current manufacturers data. Pertinent details are on file at this facility.</p> <p>Work Order No. 3883</p> <p>Signed by <u>dt</u></p> <p>Date 23APR2024</p> <p>For: R.T. Turbines Inc. 3397 Hwy. 121 West Marianna, AR. 72360 CRS # MW9R610J</p>																																																																														

## Section 1: Record of engine maintenance and elementary work

Date -- / -- / --	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
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Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 6359.9  
Engine TT: 6359.9

DATE: 09/15/2021  
WORK ORDER # 9152021  
Hobbs: 6359.9

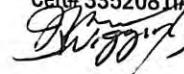
"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.  
The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter.  
Removed, function tested, cleaned, and reinstalled engine chip detectors.  
Inspected Starter brushes.  
Replaced engine fuel filter element.  
Removed P/N 3019754 adapter, 10 P/N 3106347-01 primary fuel nozzles, and 3 P/N 3106346-01 secondary fuel nozzles.  
Ops checks, Ground run, Leak check complete.

Authorized Signature   
Thomas O. Daneker A/P.2832999

1-20-21  
Fuel Nozzle Set  
TT NA TC N/A

Cleaned and flow checked 1ea 3019754 adapter, 10ea 3106347-01 primary and 3ea 3106346-01 secondary fuel nozzles. All work performed with reference to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

Tarheel Turbines  
Cert# 3352081A  


N502WF 1/1/2022 Hobbs time 6476 TTA. 6476  
Engine TT: 6476 Cycle counts 537 Hrs. 113 starts and 653 takeoffs. Total starts 1805 takeoffs 8185  
03 Rev. 43, table 6XX.  
Completed a 100 hour inspection using P&WC maintenance manual, P/N 3030442, Chapter 72-50-  
Overhauled starter Generator by S&T Acc. CC2R737K Wo 64090.  
Removed and checked P3 filter and installed new oil filter.  
New air filter  
Ground ran engine, ground run checks good, performed a leak check of engine, no leaks noted at  
this time.

"I certify that this engine has been inspected in accordance with a 100hr inspection and was determined  
to be in airworthy condition".

Brian C Fisher 3456526 IA

### Engine Time & Cycles

Customer: Work Order:	Matt Crabbe	Current Hobbs: 6476
		Total Engine Time & Cycles as of: 12/21
Aircraft Model: R/N: S/N: Engine Model: S/N:	At502 502WF 2646 PT6-34ag PCE PH0451	Engine Total Time: 6358.7
		Total Flights: 8185
		Total Starts: 1805
		Total flights for year 2021 season: 653
		Total starts for year 2021 season: 113
		Hrs for 2021 season: 537

Component	Abb Cycle Factor	Fit Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor P/N: 3013111 S/N: RWA59B700	5	0.43	95	1244	1339	19000	17661	6476
Disk, Comp 2nd P/N: 3013712 S/N: A002E9XH	5	1.33	294	3847	4141	24000	19859	6476
Disk, Comp 3rd P/N: 3011713 S/N: A002F060	5	1.13	250	3267	3517	25000	21483	6476
Impeller, Cent. P/N: 3013176 S/N: EAAB000N070	2	0.53	203	2490	2693	19000	16307	6476
Disk, C.T. P/N: 3013411 S/N: A002ETAK	10	1.75	292	4014	4306	16000	11694	6476
Disk, P.T. P/N: 3026812 S/N: A002EE8K	10	1	167	2242	2409	24000	21591	6476
Blade, C.T. P/N:								

CYCLES FIGURED FROM 1/21 TO 12/21

Cycles calculated in accordance with P&WC B.B.1302R5

CALCULATED BY BRIAN FISHER AP3456526



12-16-21

Date

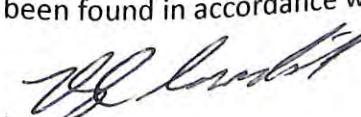
N502WF 01/23/2023 HOBBS 6567.5 ENGINE TT 6567.5

C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual.

- Removed and checked p3 filter and oil filter.
- C/W functional check of chip detector, no defects noted.
- Engine test run ok.

91.5 hrs, 10 starts and 75 takeoffs from 2022 ag season.

I certify that this engine has been found in accordance with an annual inspection and to be found to be in airworthy condition.

  
Kyle Summerfield 3590663 IA

## Section 1: Record of engine maintenance and elementary work

Date ---/---/---	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
N502WF 12/7/2019 HOBBS 5821.7 ENGINE TT 5821.7						
C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual.						
<ul style="list-style-type: none"> <li>Removed and checked p3 filter and oil filter.</li> <li>C/W functional check of chip detector, no defects noted.</li> <li>Replaced engine mounted fuel filter with new.</li> <li>Pulled AC adapter lubed quail shaft reinstalled and tighten ac belt.</li> <li>Engine test run ok.</li> </ul>						
584.7 hrs, 162 starts and 792 takeoffs From 19 ag season.						
I certify that this engine has been found in accordance with an annual inspection and to be found to be in airworthy condition.						
<i>Brian Fisher</i> Brian Fisher 345626 IA						

Engine Time & Cycles								
Customer:	Matt Crabbe							
Work Order:								
Aircraft Model:	Current Hobbs: 5939							
R/N:	Total Engine Time & Cycles as of: 1/21							
S/N:	Engine Total Time: 5821.7							
Engine Model:	Total Flights: 7532							
S/N:	Total Starts: 1692							
	Total flights for year 2020 season: 102							
	Total starts for year 2020 season: 44							
	Hrs for 2020 season: 117.3							
Component	Avg Cycle Factor	Fit Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor P/N: 3013111 S/N: RWA59B700	5	0.43	24	1220	1220	19000	17756	5939
Disk, Comp 2nd P/N: 3013712 S/N: A002E9XH	5	1.33	73	3774	3874	24000	20153	5939
Disk, Comp 3rd P/N: 3011713 S/N: A002F060	5	1.13	62	3205	3267	25000	21733	5939
Impeller, Cent. P/N: 3013176 S/N: EAAB000N070	2	0.53	39	2451	2490	19000	16510	5939
Disk, C.T. P/N: 3013411 S/N: A002ETAK	10	1.75	88	3926	4014	16000	11986	5939
Disk, P.T. P/N: 3026812 S/N: A002EE8K	10	1	50	2192	2242	24000	21758	5939
Blade, C.T. P/N:								
CYCLES FIGURED FROM 1/20 TO 1/21								
Cycles calculated in accordance with P&WC B.B.1302R5								
CALCULATED BY BRIAN FISHER AP345626								

Signature	Date

N502WF 1/13/2021 HOBBS 5939 ENGINE TT 5939

C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual.

- Removed and checked p3 filter and oil filter.
- C/W functional check of chip detector, no defects noted.
- Replaced engine mounted fuel filter with new.
- Engine test run ok.

117.3 hrs, 44 starts and 102 takeoffs From 20 ag season.

I certify that this engine has been found in accordance with an annual inspection and to be found to be in airworthy condition.

*Brian Fisher*  
Brian Fisher 345626 IA

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 6050.5  
Engine TT: 6050.5

DATE: 07/11/2021  
WORK ORDER # 6272022  
Hobbs: 6050.5

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter.  
Removed, function tested, cleaned, and reinstalled engine chip detectors.  
Inspected Starter brushes.  
Replaced engine fuel filter element.  
Ops checks, Ground run, Leak check complete.

Authorized Signature *Thomas O. Daneker* A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 6174.3  
Engine TT: 6174.3

DATE: 08/05/2021  
WORK ORDER # 8052021  
Hobbs: 6174.3

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter.  
Removed, function tested, cleaned, and reinstalled engine chip detectors.  
Inspected Starter brushes.  
Replaced engine fuel filter element.  
Ops checks, Ground run, Leak check complete.

Authorized Signature *Thomas O. Daneker* A/P 2832999  
Thomas O. Daneker

## Section 1: Record of engine maintenance and elementary work

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 5329.5  
Engine TT: 5329.5

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.

Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.

Removed and cleaned PC filter

Removed, function tested, cleaned and reinstalled engine chip detectors.

Inspected Starter generator wet splines and brushes. No defects noted.

Replaced engine fuel filter element.

Ops checks, Ground run, Leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 5448.2  
Engine TT: 5448.2

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.

Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.

Removed, function tested, cleaned and reinstalled engine chip detectors.

Replaced engine fuel filter element.

Ops checks, Ground run, Leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 5570.5  
Engine TT: 5570.5

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.

Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.

Replaced engine fuel filter element.

Ops checks, Ground run, Leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 5690.7  
Engine TT: 5690.7

DATE: 08/08/19  
WORK ORDER # 080819  
Hobbs: 5690.7

ME  
/AMO  
/AMO

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43Appendix D maintenance section.

25-hour inspection items Air Tractor AT-502A/ pgs 1-6.

Periodical Inspection 100-hour inspection items Air Tractor AT-502A/B pgs 1-6.

Replace Fuel Nozzles with serviceable P/N 3106345-01 TSO 16.3 Hours, Due next 6074.4 Hobbs.

Replaced engine fuel filter element.

Ops checks, Ground run, Leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker

### Engine Time & Cycles

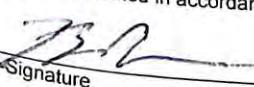
Customer: Work Order:	Matt Crabbe	Current Hobbs: 5821.7
		Total Engine Time & Cycles as of: 12/19
Aircraft Model:	At502	Engine Total Time: 5821.7
R/N:	502WF	Total Flights: 7430
S/N:	2646	Total Starts: 1648
Engine Model:	PT6-34ag	Total flights for year 2019 season: 792
S/N:	PCE PH0451	Total starts for year 2019 season: 162
		Hrs for 2019 season: 584.7

Component	Abb Cycle Factor	Fit Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor P/N: 3013111 S/N: RWA59B700	5	0.43	124	1096	1220	19000	17780	5821
Disk, Comp 2nd P/N: 3013712 S/N: A002E9XH	5	1.33	383	3391	3774	24000	20226	5821
Disk, Comp 3rd P/N: 3011713 S/N: A002F060	5	1.13	325	2880	3205	25000	21795	5821
Impeller, Cent. P/N: 3013176 S/N: EAAB000N070	2	0.53	253	2198	2451	19000	16549	5821
Disk, C.T. P/N: 3013411 S/N: A002ETAK	10	1.75	394	3532	3926	16000	12074	5821
Disk, P.T. P/N: 3026812 S/N: A002EE8K	10	1	225	1967	2192	24000	21808	5821
Blade, C.T. P/N:								5821

CYCLES FIGURED FROM 1/17 TO 12/1/17

Cycles calculated in accordance with P&WC B.B.1302R5

CALCULATED BY BRIAN FISHER AP3456526

  
Signature

12-7-19  
Date

## Section 1: Record of engine maintenance and elementary work

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4994.3  
Engine TT: 4994.3

DATE: 08/05/18  
WORK ORDER # 080518  
Hobbs: 4994.3  
Engine S/N PCE PH0451

Removed fuel nozzles and installed previously cleaned and flowed nozzles.

Ops checks, Ground run, leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 5101.5  
Engine TT: 5101.5

DATE: 08/27/18  
WORK ORDER # 080518  
Hobbs: 5101.5

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.

Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.

Replaced engine fuel filter element.

Ops checks, Ground run, Leak check complete.

Authorized Signature  A/P 2832999  
Thomas O. Daneker



FAA Approved Repair Station No. CP2R750K EASA Approved  
Pratt & Whitney Canada Designated Overhaul Facility  
201 E Airport Rd. Okmulgee, Ok. 74447 Ph: 918-756-7862 Fax: 918-756-3424

Date: June 21, 2019	Tach/Hobbs: 4769.6	Engine Model: PT6A-34AG	Engine S/N: PCE-PH0451	Acft. Reg. No: N502WF
Eng. Total Time: 4769.6	TSOH: N/A	Eng Total Cycles: Ref SB 1302R6	Starts: UNK Flights: UNK	Acft. Mod/Ser No: 502B-2646

Traveled to customers location in Elizabeth City N.C. to troubleshoot low oil pressure at idle, and engine running hot. Performed pre-work performance run to obtain engine run data. Checked calibration of oil pressure gauge, torque gage, and T-5 gauge. Removed oil filter, and housing to facilitate pressure relief valve removal. Disassembled pressure relief valve found 5 thick, and 1 thin sh.m. Replaced pressure relief valve, and assembled with 6 thick shims, and new spring. Inspected oil filter check valve, and by-pass valve. Installed new seal in by-pass valve. Reinstalled oil filter housing, with new O-rings, and filter. Borescoped inspected CT disk, and shroud segments for tip rubs, none found. Inspected P3 cabin heater hose for leaks. Performed bleed valve closing check (closed at 88%). Adjusted FCU input arm. Adjusted part power trim max Ng stop to 97.1%. Ground run leak check good. All work was done IAW the manufacturers 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: 221594

Date: June 21, 2019

COVT056 (Rev0 06-99)

### Engine Time & Cycles

Customer: Work Order:	Matt Crabbe	Current Hobbs: Total Engine Time & Cycles as of:	5237 12/18
Aircraft Model:	AT502	Engine Total Time:	5237
R/N:	502WF	Total Flights:	6638
S/N:	2646	Total Starts:	1486
Engine Model:	PT6-34ag	Total flights for year 2018 season:	884
S/N:	PCE PH0451	Total starts for year 2018 season:	169
		Hrs for 2018 season:	667.2

Component	Abb Cycle Factor	Fit Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor P/N: 3013111 S/N: RWA59B700	5	0.43	134	962	1096	19000	17904	5237
Disk, Comp 2nd P/N: 3013712 S/N: A002E9XH	5	1.33	415	2976	3391	24000	20609	5237
Disk, Comp 3rd P/N: 3011713 S/N: A002F060	5	1.13	352	2528	2880	25000	22120	5237
Impeller, Cent. P/N: 3013176 S/N: EAAB000N070	2	0.53	279	1919	2198	19000	16802	5237
Disk, C.T. P/N: 3013411 S/N: A002ETAK	10	1.75	421	3111	3532	16000	12468	5237
Disk, P.T. P/N: 3026812 S/N: A002EE8K	10	1	240	1727	1967	24000	22033	5237
Blade, C.T. P/N:								5237

CYCLES FIGURED FROM 1/17 TO 12/1/17

Cycles calculated in accordance with P&WC B.B.1302R5 CALCULATED BY BRIAN FISHER AP3456526



12-1-18

N502WF 12/7/2018 HOBBS 5237 ENGINE TT 5237

C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual. Removed and checked p3 filter and oil filter. C/W functional check of chip detector, no defects noted. Replaced engine mounted fuel filter with new.

- Hot inspection by Tarheel Turbines.
- Fuel nozzle cleaned and tested.
- Engine test run ok.

667.2 hrs, 169 starts and 884 takeoffs From 12/7/18.

I certify that this engine has been found in accordance with an annual inspection and to be found to be in airworthy condition.

 Brian Fisher 345626 A&P

12-13-2018  
PCE-PH0451 PT6A-34A  
TT 5236.4

Split engine at c flange, performed Hot Section Inspection. 9ea new segments pn 3018503 installed in IE Duct Assy, final tip clearance .014. Cleaned and inspected OE Duct and CC Liner. Inspected CT Disk and blades. Clean and flow checked 14ea fuel nozzles. Functionally tested T5 system and installed OH busbar. Disassembled power section as necessary to replace tq valve sleeve. Reinstalled components using all new gaskets and seals. Ground performance run satisfactory and leak checked as required. All work performed with regards to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

Tarheel Turbines  
Cert# 3352081IA  
W0 TT1591  
2/21/19

12-06-17  
Fuel Nozzle Set  
TT unk TC N/A

Cleaned and flow checked 1ea 3019757 adapter, 10ea 3014704 primary and 3ea 3014705 secondary fuel nozzles. All work performed with reference to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

Tarheel Turbines  
Cert# 3352081A  
*swjg, jn*

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
CFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4616.3  
Engine TT: 4616.3

DATE: 05/04/18  
WORK ORDER # 050418  
Hobbs: 4616.3  
Engine S/N PCE PH0451

Troubleshoot engine starting warm. Removed fuel nozzles per customer's request,  
Installed previously cleaned and flowed nozzles see log entry dated 12/6/17 Tarheel Turbines.  
Ops checks, Ground run, leak check complete. Engine is still starting warm.

Authorized Signature *TD* A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
CFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4659.3  
Engine TT: 4659.3

DATE: 05/12/18  
WORK ORDER # 050418  
Hobbs: 4659.3  
Engine S/N PCE PH0451

Troubleshoot engine starting warm. Removed fuel flow divider P/N 25536-4 TSO unk.  
Installed previously overhauled 0.0 TSO fuel flow divider P/N 25536-4 S/N 12838  
3/13/18. Kansas Aviation  
Ops checks, Ground run, leak check complete.

Authorized Signature *TD* A/P 2832999  
Thomas O. Daneker

task

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4689.8  
Engine TT: 4689.8

DATE: 05/24/18  
WORK ORDER # 052418  
Hobbs: 4689.8

AME  
ACA/AMO  
SCA/AMO

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.  
The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter  
Removed , function tested, cleaned and reinstalled engine chip detectors.  
Inspected Starter brushes..  
Replaced engine fuel filter element.  
Adjusted start acceleration down one click  
Performed compressor wash.  
Ops checks, Ground run, Leak check complete.

Authorized Signature *TD* A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4871.6  
Engine TT: 4871.6

DATE: 07/01/18  
WORK ORDER # 070118  
Hobbs: 4871.6

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.  
The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Replaced engine fuel filter element.  
Ops checks, Ground run, Leak check complete.

Authorized Signature *TD* A/P 2832999  
Thomas O. Daneker

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4991.4  
Engine TT: 4991.4

DATE: 08/05/18  
WORK ORDER # 080518  
Hobbs: 4991.4

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.  
The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Replaced engine fuel filter element.  
Ops checks, Ground run, Leak check complete.

Authorized Signature *TD* A/P 2832999  
Thomas O. Daneker

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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Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4330.5  
Engine TT: 4330.5

DATE: 08/04/17  
WORK ORDER # 080417  
Hobbs: 4330.5

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.  
The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.  
25 hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter  
Removed, function tested, cleaned and reinstalled engine chip detectors.  
Inspected Starter brushes. 1/2 to 1/4 life left.  
Replaced engine fuel filter element.  
Ops checks, Ground run, Leak check complete.

Authorized Signature   
Thomas O. Daneker

A/P 2832999

8-24-17 Tac 4458.2  
I certify that this engine has been inspected in accordance  
of 100hr inspection was determined to be in Airworthy condition  
Removed fuel nozzles replaced with flow checked nozzles  
Replaced engine fuel filter Element  
Renewed and cleaned PB Filter  
Check Prewell filter  
Ops checks ground run Leak check complete  
  
8-24-17 A/P 2832999

11-15-2016  
Fuel Nozzle Set  
TT NA TC N/A  
Installed 8-24-17  
Tac 4458.2

Cleaned and flow checked 1ea 3106345-01 adapter, 10ea 3014704 primary and 3ea 3014705 secondary fuel nozzles.  
All work performed with reference to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

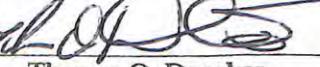
Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4569.8  
Engine TT: 4569.8

DATE: 12/22/17  
WORK ORDER # 122217  
Hobbs: 4569.8

Removed fuel control P/N 4138008-3 S/N C75390 and fuel pump P/N 386101-5 S/N 002753 and sent out for overhaul reinstalled 0.0 TSO fuel control P/N 4138008-3 S/N C75390 and 0.0 TSO fuel pump P/N 386101-5 S/N 002753.

Ops checks, Ground run, leak check complete. Engine approved for return to service.

Authorized Signature   
Thomas O. Daneker

Engine Time & Cycles

Customer:	Matt Crabbe	Current Hobbs:	4075.6
Work Order:		Total Engine Time & Cycles as of:	1/17
		Engine Total Time:	4075.6
Aircraft Model:	AT502	Total Flights:	5306
R/N:	502WF	Total Starts:	1187
S/N:	2646	Total flights for year 2017 season:	879
Engine Model:	PT6-34ag	Total starts for year 2017 season:	165
S/N:	PCE PH0451	Hrs for 2017 season:	594

Component	Abb Cycle Factor	Fit Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor								
P/N: 301311	5	0.43	132	732	864	19000	18136	4075.6
S/N: RWA59B700								
Disk, Comp 2nd								
P/N: 3013712	5	1.33	409	2265	2674	24000	21326	4075.6
S/N: A002E9XH								
Disk, Comp 3rd								
P/N: 3011713	5	1.13	347	1924	2271	25000	22729	4075.6
S/N: A002F060								
Impeller, Cent.								
P/N: 3013176	2	0.53	277	1444	1721	19000	17279	4075.6
S/N: EAAB000N070								
Disk, C.T.								
P/N: 3013411	10	1.75	419	2384	2798	16000	13202	4075.6
S/N: A002ETAK								
Disk, P.T.								
P/N: 3026812	10	1	236	1362	1598	24000	22402	4075.6
S/N: A002EE8K								
Blade, C.T.								
P/N:								

CYCLES FIGURED FROM 11/17/16 TO 11/13/17

Cycles calculated in accordance with P&WC B.B.1302R5 CALCUATED BY BRIAN FISHER AP3456526



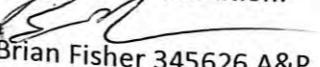
1-18-18

Date

N502WF 1/18/2018 HOBBS 4569.8 ENGINE TT 4569.8

C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual. Removed and checked p3 filter and oil filter. C/W functional check of chip detector, no defects noted. Replaced engine mounted fuel filter with new. Engine test run ok. Cycle counts 494.2 hrs, 130 starts and 617 takeoffs From 1/17/17.

I certify that this engine has been found in accordance with an annual inspection and to be found to be in airworthy condition.

  
Brian Fisher 345626 A&P

PCE-PH0451 PT6A-34AG  
TT 4421.1 HOBBS NA

Removed bleed valve and installed with OH Unit PN 3100829-03. Installed OH pump housing, relief valve spacer, seat and spring. Installed new oil filter and service with BP 2380. All work performed with regards to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

Tarheel Turbines  
Cert# 3352081A  
TT 1493  
Wiggins  
Gunn

## Section 1: Record of engine maintenance and elementary work

Date - - / - -	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
PCE-PH0451 TT 4075.6	PT6A-34AG HOBBS 4075.6	12/1/16				
				Split engine at C flange, performed Hot Section Inspection. Installed 14ea fuel nozzles. Installed 9ea new segments. Performed calibration of T5 system. Reinstalled components using all new gaskets and seals. Ground performance run satisfactory and leak checked as required. All work performed with regards to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.----END-----		
				Tarheel Turbines Cert# 3352081IA <i>Swiggins J. W. Fisher</i>	5-30-2017 PCE-PH0451 PT6A-34AG TT 4124.1	Split and C flange, repaired power section for wire strike. Prop and Overspeed Governors overhaul exchanged. Reassembled and mated at C flange using all new seals and gaskets. Leak check complied with and performance run satisfactory. All work performed with reference to applicable Pratt & Whitney Canada Manuals, and other data and methods acceptable to the administrator-----END-----
N502WF	1/12/2017 HOBBS 4075.6 ENGINE TT 4075.6					
				• Reinstalled Starter Generator s/n 2397 after overhaul by S&T Aircraft Acc. CC2R737K wo# 55987 • Installed Air Tractor service kit installing at602 oil cooler as per service instructions. • Dynamic balanced engine and propeller with Aces Cobra II Balancer.		
				C/W a 100hr inspection I/A/W P&W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual. Removed and checked p3 filter and oil filter. C/W functional check of chip detector, no defects noted. Engine test run ok.		
				Cycle counts 594 hrs, 165 starts and 879 takeoffs From 12/17/16.		
				<i>Brian Fisher</i> Brian Fisher 345626 A&P		

Customer: Matt Crabbe		Current Hobbs: 4075.6	
Work Order:		Total Engine Time & Cycles as of: 1/17	
Aircraft Model:	AT502	Engine Total Time:	4075.6
R/N:	502WF	Total Flights:	5306
S/N:	2646	Total Starts:	1187
Engine Model:	PT6-34ag	Total flights for year 2016 season:	879
S/N:	PCE PH0451	Total starts for year 2016 season:	165
		Hrs for 2016 season:	594

Component	Init. Cycles Factor	Flt Count Factor	Total Cycles for Factor	Previous Cycles	Total Cycles	Cycle Life Limits	Cycles Remaining	Component Total Time
Hub, Compressor	5	0.43	132	732	864	19000	18136	4075.6
P/N: 3013111 S/N: RWA59B700								
Disk, Comp 2nd	5	1.33	409	2265	2674	24000	21326	4075.6
P/N: 3013712 S/N: A002E9XH								
Disk, Comp 3rd	5	1.13	347	1924	2271	25000	22729	4075.6
P/N: 3011713 S/N: A002F060								
Impeller, Cent.	2	0.53	277	1444	1721	19000	17279	4075.6
P/N: 3013176 S/N: EAAB000N070								
Disk, C.T.	10	1.75	419	2384	2798	16000	13202	4075.6
P/N: 3013411 S/N: A002ETAK								
Disk, P.T.	10	1	236	1362	1598	24000	22402	4075.6
P/N: 3026812 S/N: A002EE8K								
Blade, C.T.								
P/N:								

CYCLES FIGURED FROM 11/17/15 TO 11/13/16

Crabbe Aviation  
P. O. Box 534  
Mechanicsville, VA 23111  
ACFT MODEL: AT502B-34

REG NO: N502WF  
A/C TT: 4227.1  
Engine TT: 4227.1

DATE: 06/23/17  
WORK ORDER # 06717  
Hobbs: 4227.1

"I certify that this Engine has been inspected in accordance with a 100 Hr inspection was determined to be in airworthy condition.

The following items were complied with in accordance with Manufacturers Maintenance Manuals and FAR Part 43 Appendix D maintenance section.

25 hour inspection items Air Tractor AT-502A/ pgs 1-6.  
Periodical Inspection 100 hour inspection items Air Tractor AT-502A/B pgs 1-6.  
Removed and cleaned PC filter  
Removed , function tested, cleaned and reinstalled engine chip detectors.  
Inspected Starter generator wet splines and brushes. No defects noted.  
Replaced engine fuel filter element.  
Removed Fuel control 0.0 TSO P/N 4318008-3 S/N C75059 Due to hot starting and reinstalled used serviceable P/N 4138008-3 S/N C75390.

Ops checks, Ground run, Leak check complete.

Authorized Signature *Thomas O. Daneker* A/P 2832999  
Thomas O. Daneker

Section 1: Record of engine maintenance and elementary work

Date ---/---/---	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
N502WF 12/17/2015 HOBBS 3481.2 ENGINE TT 3481.2				<ul style="list-style-type: none"> <li>Reinstalled Starter Generator s/n 2397 after overhaul by S&amp;T Aircraft Acc. CC2R737K wo# 55987</li> <li>Reinstalled Propeller Governor 8210-002-01 s/n 16200455 after repair by Kansas Aviation of Independence VKUR823L wo 136478.</li> <li>Reinstalled Overspeed Governor A210507 s/n 15697121 after repair by Kansas Aviation of Independence VKUR823L wo 136477.</li> </ul> <p>C/W a 100hr inspection I/A/W P&amp;W PT6-34B maintenance manual and inspection guidelines and by Air Tractor service manual. Removed and checked p3 filter and oil filter. C/W functional check of chip detector, no defects noted. Replaced engine mounted fuel filter with new. Engine test run ok. Cycle counts 607 hrs, 160 starts and 771 takeoffs From 12/17/15.</p> <p>Brian Fisher 345626 A&amp;P</p> <p><i>Mark Jennings</i></p>	<p>N502WF</p> <p>AT-502B</p> <p>S/N 502B-2646</p> <p>TACH 3813.8</p> <p>Performed 100hr inspection on power plant as required. Performed performance runs and leak checks. All in accordance with Air Tractor and Pratt and Whitney inspection guides.</p> <p><i>Mark Jennings</i></p> <p>Mark Jennings</p> <p>AP 3137950</p>	August 1, 2016
N502WF	7-4-16	Hobbs 3693		<p>C/W a 100hr Inspection I/A/W P&amp;W PT6-34B Maintenance Manual and Inspection guidelines and by Air Tractor service manual. Removed and checked p3 filter and oil filter. Replaced engine mounted fuel filter with new. Installed New Oil Filter. Replaced engine mounted Fuel Filter with new. Installed Rebuilt Fuel Nozzle By Prime Turbine RS UE5R246 No. Engine test run ok</p> <p>Return to Service</p> <p><i>Mark Jennings</i></p> <p>345626 A&amp;P</p>	<p>8-16-16</p> <p>PCE PH0451</p> <p>HOBBS 3865.0</p> <p>PT6A-34AG</p> <p>TT 3865.0</p> <p>Performed Gauss meter check on Prop Shaft for Wire Strike incident. All readings within limits. Visually checked engine externals. No further action required. All work performed with reference to applicable Pratt &amp; Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----</p>	<p>Tarheel Turbines</p> <p>Cert# 3352081IA</p> <p>WO# TT 1452</p> <p><i>Swaggins</i></p>
N502WF	5/13/2016	Tach 3589.7		<p>Complied with an 100 Hour Inspection on engine in accordance with PT6-34AG maintenance manual and inspection guidelines and Air Tractor service manual.</p> <p><i>Mark Jennings</i></p> <p>AP 3137950</p>	<p>Heart of Virginia Aviation</p> <p>11152 Airpark Rd</p> <p>Ashland, VA 23005</p> <p>Phone: 804-798-6500</p> <p>Fax: 804-798-6544</p> <p>N502WF</p> <p>Aircraft Hobbs: 3865.0</p> <p>Removed damaged propeller. Installed customer-supplied Hartzell O/H HC-B3TN-3D. Prop total time at install: 2301.0 TSO 0.0. Operational checks satisfactory.</p> <p>Ronald L. Hawkins AP2705318</p> <p><i>Ronald L. Hawkins</i></p>	August 18, 2016
					<p>9/5/2016</p> <p>N502WF</p> <p>Tach 3928.3</p> <p>PT6-34AG</p> <p>S/N PCE-PH0451</p> <p>Performed 100 hour inspection on engine and propeller in accordance with Air Tractor 502 and Pratt &amp; Whitney PT6-34AG 100hr inspection guides. Performed leak check and performance run as required.</p> <p><i>Mark Jennings</i></p> <p>A&amp;P 3137950 IA</p>	

Section 1: Record of engine maintenance and elementary work

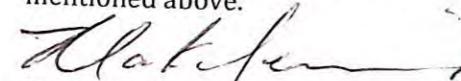
Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task

Tach: 3205.3  
Make: PWC  
Model: PT6-34AG  
S/N: PCE-PH0451  
N502WF

Date: 7/27/2015

Removed and replaced fuel nozzle assemblies with repaired assemblies see 8130 tracking number 23488. Work performed by Heritage Turbines Inc.  
Removed and replaced prop shaft seal with new p/n: 3114661-01  
Removed and replaced propeller O ring with new p/n: MS28775-230.  
Removed and replaced propeller governor gasket with new p/n: 3118953-01  
Performed 100 hr inspection on powerplant per Air Tractor 100hr and PWC PT6-34AG inspection guide.  
Performed leak checks and performance runs as required.

I certify this engine airworthy at this time pertaining to the work mentioned above.

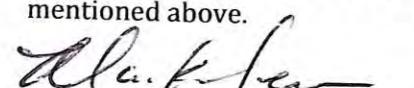
  
Mark Jennings  
AP3137950

Tach: 3366.2  
Make: PWC  
Model: PT6-34AG  
S/N: PCE-PH0451  
N502WF

Date: 9/2/2015

Performed 100 hr inspection on powerplant per Air Tractor 100hr and PWC PT6-34AG inspection guide.  
Performed leak checks and performance runs as required.

I certify this engine airworthy at this time pertaining to the work mentioned above.

  
Mark Jennings  
AP3137950

Engine Time & Cycles

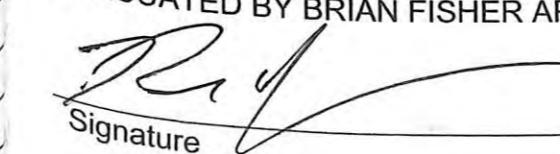
Customer:	Matt Crabbe	Current Hobbs:	3481.2
Work Order:		Total Engine Time & Cycles as of:	11/15
Aircraft Model:	At502	Engine Total Time:	3481.4
R/N:	502WF	Total Flights:	4427
S/N:	-2646	Total Starts:	1022
Engine Model:	PT6-34B	Total flights for year 2015 season:	771
S/N:	PCE PH0451	Total starts for year 2015 season:	160
		Hrs for 2015 season:	607

Component	Adv Cycle Factor	Fix Count Factor	Total Cycles for Period	Previous Cycles	Total Cycles	Cycle Life Limit	Cycles Remaining	Completion Total Time
Hub, Compressor P/N: 3013111 S/N:RWA59B700	5	0.43	121	611	732	19000	18268	3481.4
Disk, Comp 2nd P/N: 3013712 S/N: A002E9XH	5	1.33	375	1890	2265	24000	21735	3481.4
Disk, Comp 3rd P/N: 3011713 S/N: A002F060	5	1.13	319	1605	1924	25000	23076	3481.4
Impeller, Cent. P/N: 3013176 S/N: EAAB000N070	2	0.53	247	1197	1444	19000	17556	3481.4
Disk, C.T. P/N: 3013411 S/N: A002ETAK	10	1.75	387	1997	2384	16000	13616	3481.4
Disk, P.T. P/N: 3026812 S/N: A002EE8K	10	1	221	1141	1362	24000	22638	3481.4
Blade, C.T. P/N:								3481.4

CYCLES FIGURED FROM 1/1/15 TO 11/17/15

Cycles calculated in accordance with P&WC B.B.1302R5

CALCUATED BY BRIAN FISHER AP3456526

  
Signature

Date

12-17-15

Section 1: Record of engine maintenance and elementary work

Date -- / -- / --	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
				9/12/2013 Tach 2208 N502WF Performed 100 HR insp. Per PT6 MM. Changed oil & FCU filter, cleaned fuel inlet & fire wall screens, purged fuel line, & greased prop, replaced beta block P/N A-3026, Replaced Trim Stick P/N 3031417CL35, & Replaced Air Filter BA409E. Run up ops good. Tanner Sotvik A&P 2877240 <i>Tanner Sotvik</i>		

Life Limited Parts Summary

Serial No:	PCE PH0451	Aircraft:	502WF
Total Time:	2874.2	Side Installed:	CENTER
Time Since:	2874.2	Aircraft Total Time:	2874.2
Cycles Since:	11/09	Hobbs:	2874.2

1/15 722 STARTS 3127 FLIGHTS TOTAL 862 STARTS 3656 FLIGHTS

N505WF 9-9-2014 Hobbs: 2741.4  
Engine TT: 2741.4

C/W a 100hr. inspection I/A/W P&W PT6A-34AG Maintenance Manual and inspection guidelines. Removed and cleaned P3 filter and oil filter. C/W functional check of chip detector, no defects noted. Starter generator brushes checked good. C/W prop hub lube. Replaced engine mounted fuel filter with new. All work complied with IAW P&W PT6-34AG Maintenance Manual Chapter 73.

*MC Edwards*  
Michael C Edwards A&P 3077160

Desc Cycles	Part Number	Serial Number	Total Cycles	Remaining Life
Hub Assy	3013111	RWA59B700	611	18389
Disc Comp Stage 2	3013712	A002E9XH	1890	22110
Disc Comp Stage 3	3011713	A002F060	1605	23395
Disc Comp Turbine	3013411	A002ETAK	1997	14003
Impeller	3013176	EAAB000N070	1197	17803
PT Disk	3026812	A002EE8K	1141	22859

Time Since Hot Section Inspection: 631.3 Date: 12/4/13

This Document Prepared By: Brian Fisher Date: 1/15

6/1/2015

PT 6-34AG S/N: PCE-PH0451

N502WF

Tach: 2990.4

Performed 100HR inspection per AT 502B Power Plant 100HR inspection guide and P&W PT6A-34AG Maintenance Manual. Performed AD research (none found). Performed leak checks as required. I certify this engine was inspected IAW a 100hr inspection and found airworthy at this time.

*Mark Jennings*  
Mark Jennings A&P 3137959

Michael C. Edwards A&P 3077160

## Section 1: Record of engine maintenance and elementary work

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Date --/---/---	Time since new	Time since overhaul	Total cycles	Details of task		Signature	AME ACA/AMO SCA/AMO
7-9-2010	829.3	829.3		Checked and cleaned Fuel filters and Screens. Checked and cleaned oil screens & filters. Cleared fuel firewall filter. Checked ops of chip detector. Greased prop. I certify this engine was inspected IAW an 100 HR inspection and was determined to be in airworthy condition.	6-27-2011 Hobbs & TT 996.8 Checked and cleaned fuel and oil filters and screens. Cleared firewall filter & purged fuel line. checked ops of chip detector. Greased prop. Removed and Replaced fuel nozzles with overhauled nozzles from Tennessee Aircraft Co. Tracking # 53693-6A. Run up. ops good. I certify that this engine has been inspected IAW an 100 HR inspection and was determined to be in airworthy condition.	<i>Lammie Sot</i>	AP 28772401A
8-10-2010	729.7	729.7		Checked and cleaned fuel and oil filters and screens. Cleared firewall fuel filter. Checked ops of chip detector. & Greased prop. Removed and Replaced fuel nozzles with overhauled set of nozzles from Paine Turbines. W/O # 0037217 Ops checked good. I certify this engine was inspected IAW an 100 HR inspection and was determined to be in airworthy condition.	7-13-2011 Hobbs & TT 1102.2 Checked and cleaned fuel and oil filters and screens. Cleared firewall filter & purged fuel line. Greased prop. I certify that this engine has been inspected IAW an 100 HR inspection and was determined to be in Airworthy condition.	<i>Lammie Sot</i>	AP 28772401A
9-17-2010	826.5	826.5		Checked and cleaned fuel and oil filters and screens. Cleared firewall fuel filter. Checked ops of chip detector. Greased prop. I certify that this engine was inspected IAW an 100 HR inspection and was determined to be in airworthy condition.	8-8-2011 Hobbs & TT 1228.0 Checked oil filter screen and replaced with new PIN 3034292WFC. Cleared fuel screen & Replaced fuel filter. Cleared firewall filter & purged fuel line. Greased prop. Removed and Replaced fuel nozzles with overhauled nozzles from Tennessee Aircraft Tracking # 54091-6A. Run up ops good no leak. I certify that this engine has been inspected IAW an 100 HR inspection and was determined to be in Airworthy Condition.	<i>Lammie Sot</i>	AP 28772401A
12-15-2010	892.8	892.8		Checked and cleaned fuel and oil filters and screens. Cleared firewall fuel filter and purged fuel line. Changed Oil - BP 2380 - checked ops of oil chip detector. Removed Starter/Gen and installed new brushes. Performed Performance Recovery Compressor wash. Run up ops good. I certify that this engine has been inspected IAW a 100 HR inspection and was determined to be in airworthy condition.	8-23-2011 Hobbs & TT 1331.0 Checked oil filter screen. Cleared fuel screen & Replaced fuel filter. Cleared firewall filter and purged line. Greased Prop. Run up no leak. I certify that this engine has been inspected IAW an 100 HR inspection and was determined to be in airworthy condition.	<i>Lammie Sot</i>	AP 28772401A

Section 1: Record of engine maintenance and elementary work

Date -- / -- / --	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
30 SEP 2008	0.0	0.0	0	New engine final acceptance test and inhibiting run completed satisfactorily and is in condition for safe operation.	B. HORVATH	
				TRIM SPEED Ng 35338, % Ng MAX: 94.2		

Air Tractor, Inc. 1584 Airport Road, P.O. Box 485, Olney, Texas 76374  
FAA Production Approval Holder PC 2SW

Date	Engine Model	Engine Serial Number		
October 14, 2008	PT6A-34AG	PCE-PH0451		
Engine - Time Run	Engine - TTSN	Engine - Flights	Engine - Starts	Engine - TSOH
1.0 Hours	1.0 Hours	3	5	N/A
Aircraft Make	Aircraft Model	A/C Serial Number	A/C Registration	Aircraft - TT
Air Tractor	AT-502B	502B-2646	N502WF	1.0 Hours

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 1005, Revision 5/6/03. The engine was found to operate satisfactory and is in condition for safe operation.

*Jim Pollard*  
Jim Pollard - Air Tractor, Inc.

AIC MAINTENANCE, INC.  
ENGINE PT6A-34AG S/N PCE-PH0451 HOBBS & TT 105.3 DATE:  
06-28-09

CHECKED AND CLEANED FUEL FILTERS AND SCREENS.  
GREASED PROPELLER.  
CLEANED FIREWALL FUEL FILTER.

I CERTIFY THIS ENGINE WAS INSPECTED I/A/W A 100 HOUR TYPE  
INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION.

*TRENT TEETS*  
TRENT TEETS  
A&P 2886740

AIC MAINTENANCE, INC.  
ENGINE PT6A-34AG S/N PCE-PH0451 HOBBS & TT 201.4 DATE:  
07-15-09

CHECKED AND CLEANED FUEL FILTERS AND SCREENS.  
GREASED PROPELLER.  
CLEANED FIREWALL FUEL FILTER.

I CERTIFY THIS ENGINE WAS INSPECTED I/A/W A 100 HOUR TYPE  
INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION.

*TRENT TEETS*  
TRENT TEETS  
A&P 2886740

AIC MAINTENANCE, INC.  
ENGINE PT6A-34AG S/N PCE-PH0451 HOBBS & TT 292.5 DATE: 08-  
19-09

CHECKED AND CLEANED FUEL FILTERS AND SCREENS.  
GREASED PROPELLER.  
CLEANED FIREWALL FUEL FILTER.  
FLOW CHECKED FUEL NOZZLES.

I CERTIFY THIS ENGINE WAS INSPECTED I/A/W A 100 HOUR TYPE  
INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION.

*TRENT TEETS*  
TRENT TEETS  
A&P 2886740

DATE	TACH/HOBBS	ENGINE MODEL:	ENGINE S/N	A/C REG. NO:
11-19-2009	413.7	PT6A-34AG	PCE-PH0451	N502WF
ENG TT 413.7	TSOH ENG	TT PROP 413.7	STARTS 140	A/C MOD/SN
A/C TT 413.7	TSOHOT	TSPOH	FLIGHTS 529	502B-2646

INSTALLED NEW FCU FILTER AND INSPECTED SCREEN. CLEANED FIREWALL FUEL FILTER, AND PURGED LINES. CLEANED & INSPECTED INDUCTION AIR FILTER. INSPECTED OIL FILTER, P3 FILTER & RGB SCREEN. CLEANED SMOKER NOZZLE. DRAINED OIL & SERVICED ENGINE WITH BP2380 OIL. REMOVED STARTER GEN AND INSPECTED BRUSHES AND CLEANED OUT GENERATOR. CHECKED CHIP DETECTOR FOR OPERATION. RUN UP AND CHECKED OK. INSPECTED PER AT'S OPERATORS MANUAL AND CHECKLIST, AND P&W CHECKLIST. SEE ENGINE CYCLE SHEET UPDATED BY COVINGTON A/C THIS DATE.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100HR INSPECTION  
AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION  
LOWELL MILLER AP3024870IA

*Lowell Miller*

6-24-10 Hobbs 518.5. Checked and cleaned Fuel and oil screens  
and filters. Greased prop. Checked operation of chip detector.  
I certify this engine was inspected I/A/W a 100 HR Inspection  
and was determined to be in airworthy condition.

*Trent Teets*  
Trent Teets  
A&P 2886740

Volume #: 1

Opened on: 30 SEP 2008

## ENGINE DETAILS

1. Manufacturer

Pratt & Whitney Canada Corp.

2. Type/Model/Series E.T.C. E- 6 PT6A- 34AG B/S: 975

3. Serial Number

PCE- PH0451