

## ENGINE SERVICE AND

# MAINTENANCE RECORD

[illegible]

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
A/C H665 8-15-00	3740				Performed 100hr. inspection - checked / cleaned Fwd starter gear (drive) Splines Lubed, lubed splines Replaced w/new 1st fuel pump discharge Filter, Batteries for proper fluid level & regulator input.
Hobbs 10-5-00	3849.5				Performed 100hr inspection - Checked and clean main oil screen - no metal found. Lubed ignitors. Installed new fuel pump discharge Filled batteries with water. Installed overhauled prop. Engine Ground run and checked for leaks. stacks.
A/C H665 04-21-01	3926.1				Performed 100hr. inspection - checked and cleaned Fwd screen, and 1st filter. Replaced w/new 1st fuel pump discharge filter, (due to time limit on existing oil filter) accessories, Removed accessory gear box - due to oil on the oil tank center tube. Replaced all disturbed o-rings with new, Replaced oil seals (Garloc) around the drive pad Pump engine driven fuel pump with new of like p/w. Replaced 2380 turbine engine oil, Removed bleed air valve, repl newly overhauled propeller model # HC-BSTN-3C, Hub seal # BWA all work performed I/A/W the Pratt & Whitney maintenance
A/C H665 04-21-01	3926.1				Removed all existing fuel nozzles - flow test. performed I/A/W the Pratt & Whitney maintenance manual
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
chip detector, main oil screen, Fwd oil screen - checked on Tach/Gen's, checked ignitors for excessive wear - O.K. 1st Firewall Fuel Filter, lubed prop hub checked Ground Run Engine all parameters normal. - End	Southfield Aviation	
ed Fwd chip detector and oil screen. Inspected starter gen. splines and tach drive splines. Checked filter, new Firewall filter and new belly sump filter. nozzles and sheaths from Covington Aircraft Greased Removed RH exhaust stack and welded crack-reinstall		
chip detector, main oil screen, Fwd oil screen, fuel pump inlet 1st Firewall mounted fuel filter, (filter)		
Removed all accessory Gear Box escaping into Compressor Area - caused by broken o-ring due to the removal & disassembly of the Accessory Gear Box of the Fuel Control/pump, Starter Gen., Tach Gen., and installed A.G.B and all accessories, Serviced engine with acid diaphragm and all o-rings with new - Reinstalled, Installed 24330. Serviced A/C Batteries, Ground Run Engine all ops. O.K. Manual. End	Southfield Aviation	
reinstalled using all new o-rings & gaskets - all works	Southfield Aviation	

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MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



## ENGINE SERVICE AND

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DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER										
	HRS.	MIN.	HRS.	MIN.														
BROUGHT FORWARD →																		
AC Hobbs 7347.1 HRS Eng. T.T.S. N 11739.1					Performed 100hr. inspection - checked/cleaned the filter, P3 filter and Forward ship detector. Replaced main oil screen. Removed all fuel nozzles - flow checked. Greased prop. hub with Aeroshell #6 grease. Turco washed compressor.	main oil screen, Fwd oil screen, fuel pump outlet with new 1st firewire mounted fuel filter & fuel pump - changed 2nd tips - installed/serviced cell fuel serviced battery with water. Topped off oil sump with - washed engine compartment - Southern Field Aviation												
Date 4/24/2007 AC Hobbs 7503.2 T.T.S.N 11893.2					Performed 100 hour inspection this date. Checked filter and fuel chip detector - good - Replaced fuel nozzles - flow checked - changed 1st tip - existing oil and replenished with BP 2380 turbo oil. Starter from Quality Aircraft Accessories WOT. Installed new hose on engine bracket. Installed tubes at "C" flange and installed new "O" rings. attaching hardware and carbon block assembly. no leak noted at this time. Prop was balanced. All work done T/A/W Manufacturer's maintenance	+ Cleaned main oil screen, fuel pump discharge filter, P3 firewire filter and fuel pump discharge filter. Reinstalled with new "O" rings and gaskets. Drained oil. Removed starter and sent out for O/H. Reinstalled 32550. Installed new L/H engine mount torqued & resat. new gasket seal on Ng mounting plate. Removed oil section. Install new air filter. Installed O/H prop with new Turco washed engine. Engine was ground run and using ACES Systems make # 1000 to .08 IPS. manuals - Southern Field Aviation INC -												
					N4004D Aug. 24, 2007 Hobbs 7684.0 TTSN 12076.0 Engine ITT 780c - Max Trq 35psi - 99% ng- 54.6ff Test ITT gauge and airframe harness with barfield tester. Inspect 1st stage compressor blades. Remove bleed valve. Lapped mating surfaces. Installed new diaphragm. Reinstalled bleed valve. Perform turco wash. Flow test all nozzles. Changed oil filter. SOAP sent out. Checked fuel inlet screen and changed fuel discharge filter. Engine split at "C" flange. CT disk tip clearance .014 inspected ct disk and ct vane ring. Inspected large and small exit ducts. Inspected pt stator and pt blades. Tested all ITT probes, buss bar and harness. Inspected combustion liner. Engine reassembled using new lock washers, gaskets and o-rings. Engine serviced with oil and ground run. ITT 780c -Max trq 45psi- 97%ng-62.7ff Engine removed. Paul Pearson OAT 35c DA2800ft Bar30.10 Southern Field Aviation	DATE 09-25-2007 AC Hobbs 7684.0 Installed Engine in Aircs through Reg# N4004D. Installed all bases & engine control linkage. Serviced engine to its Sumps Capacity with BP 2380 turbine oil. installed propeller which was previously removed. Ground Run engine no oil or fuel leaks noted. all work performed T/A/W the manufacturer's maintenance manual & FAR 43.152A Southern Field Aviation End												
<div><div><b>COVINGTON</b> AIRCRAFT</div><div>FAA Approved Repair Station No. CP2R750K JAA Listed Pratt &amp; Whitney Canada Appointed Agricultural Service Center 201 E Airport Rd. Okmulgee, Ok. 74447 Ph: 918-756-7862 Fax: 918-756-3424</div></div> <table border="1"><tr><td>Date: Sept 12, 2007</td><td>Tach/Hobbs: 7684.0</td><td>Engine Model: PT6A-34AG</td><td>Engine S/N: PCE 56489</td><td>Acft. Reg. No: NA</td></tr><tr><td>Eng. Total Time: 12076.0</td><td>TSOH: No Overhaul</td><td>Eng. Total Cycles: Ref SIL PT6-037</td><td></td><td>Acft. Mod/Ser No: NA</td></tr></table> <p>Installed overhaul condition Trim Wiring Harness 3031417 CL30. Tested engine with the following results: 750 SHP - 36931 rpm Ng - .622 SFC - 1794 R Tt5 - 1856 R T5D - 63 F average inlet temp. Removed engine from test and returned to customer.</p> <p><b>MAINTENANCE RELEASE:</b> This certifies that the work specified above was carried out in accordance with Federal Aviation Regulations and current manufacturers 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: 215986</p> <p>Authorized Signature: _____ Date: Sept 12, 2007 COVT056 (Rev0 06-99)</p>					Date: Sept 12, 2007	Tach/Hobbs: 7684.0	Engine Model: PT6A-34AG	Engine S/N: PCE 56489	Acft. Reg. No: NA	Eng. Total Time: 12076.0	TSOH: No Overhaul	Eng. Total Cycles: Ref SIL PT6-037		Acft. Mod/Ser No: NA	TOTAL THIS PAGE TOTAL FROM PREVIOUS SUMMARY TOTAL SINCE MFG.			
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MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

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BROUGHT FORWARD →					
May 14, 2008					Performed 100HR inspection checked/cleaned the main oil screen, fuel oil screen, fuel pump <del>inlet</del> screen, P3 filter and forward chip detector. Replaced the <del>discharge</del> <sup>discharge</sup> mounted fuel filter and fuel pump <del>inlet</del> filter with new of the P/N checked. Starter Brushes O.K. Serviced Battery with water and charged. Topped off oil Sump with BP 2380 oil. Greased prop. hub. Ground Run engine - O.K. Southern field Aviation End
July 30, 2008					Performed 100HR inspection. checked/cleaned the main oil screen, fuel oil screen, fuel pump <sup>inlet</sup> screen. P3 filter and forward chip detector. Removed and Replaced the <del>discharge</del> <sup>discharge</sup> mounted fuel filter and fuel pump <del>inlet</del> filter with new of the P/N checked. Starter Brushes - O.K. Replaced 1st igniter. Serviced Battery with water and charged. Topped off oil Sump with BP 2380 turbine oil. Greased prop. hub. Ground Run engine - O.K. Southern field Aviation End
Date: April 10, 2009 N4004D Hobbs: 8244.7 TTSN: 12636.7 Performed 100 hour inspection this date. Removed cowl and checked the following; main oil screen -good-, fuel pump inlet screen, igniters for wear -good-, chip detector for ops -good-, carbon block for wear -good-, starter brushes for wear -good-, P3 filter -good-. Greased starter splines and propeller hub. Replaced fuel pump discharge filter and firewall fuel filter. Removed existing fuel nozzles and sent to Tennessee aircraft for overhaul. Reinstalled fuel nozzle as received from Tennessee aircraft with new gaskets and o rings (see 8130). Installed overhauled RG15980L Serial number O-6444 low pressure fuel pump (see yellow tag). Drained existing oil and serviced to sump capacity with BP 2380 turbine oil. Installed new air intake filter. Turco® washed engine. Engine was ground run and no leaks noted at this time. I certify that this engine has been inspected I/A/W 100 hour inspection procedures and determined to be in airworthy condition. William A. Peak					
April 10, 2009 N4004D Hobbs 8244.7 TTSN 12636.7 I certify that this Engine has been inspected I/A/W an ANNUAL inspection and was determined to be in airworthy condition. Paul Pearson					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

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date: Sept. 24, 2009 A/c hobbs 8628.8 T.T.S.N 13,020.8			
Performed 100 HR. inspection. checked and cleaned the main oil screen, forward oil screen, fuel pump screen, P3 filter and forward chip detector. Removed all fuel nozzle assemblies - flow checked. Changed 3rd tips with overhauled units. Reinstalled / safetied all fuel nozzle assemblies. Removed and Replaced with new 1st air intake filter P/N AF 935M, 1st main oil filter P/N 7579522AM / 1761865, 1st fuel pump discharge filter P/N AN6235-3A and 1st firewall mounted fuel filter P/N 3134. Drained oil. Serviced oil Sump to it's capacity with BP 2380 turbine oil. Turco washed compressor. Greased prop. hub with Aeroshell #6 grease. Serviced Battery with water. Ground Run engine all ops normal. Took oil sample sent to Aviation Laboratories for Analysis. Southern field Aviation End		* changed oil P filter *	
date May 26, 2010 A/c hobbs 8719.7 T.T.S.N 13,111.7			
Performed 100HR inspection. checked and cleaned the main oil screen, forward oil screen, fuel pump inlet screen, P3 filter and forward chip detector. Removed and Replaced with new 1st fuel pump discharge filter P/N AN6235-3A and 1st firewall mounted fuel filter P/N 3134. Topped off oil Sump with BP 2380 turbine oil. Turco washed compressor. Greased prop. hub with Aeroshell #6 grease. Serviced Battery with water - charged. Ground Run engine all ops normal. Southern field Aviation End			
MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.			