

YE

DATE: 4/06/12

ENG. MODEL: PT6A- PT6A-27

ENG. S/N: PCE-40160

DAY

HOBBS: 2511.5

ENG: 18,045.3

Alterations

Number of
cific entries.)

Received engine for repairs due to a #1 Bearing Failure.

1. Disassembled Engine to the extent necessary to effect repairs.
2. Removed Compressor for Rebuild. Disassembled inspected and repaired by replacing #1 Bearing P/N 3007194, S/N 2665 with new. Replaced #2 bearing with P/N 3028004, S/N BB0038433 overhauled by Bearing Inspection on W.O. 691762. Replaced Compressor Impeller P/N 3013176, S/N 9F218 having Total Cycles of 4420 and cycles remaining 14,580, in serviceable condition removed from PT6A-34AG, S/N PCE-PH0078 removed 01/3/11 TSN: 6882.6, STARTS: 2137, FLIGHT: 14542. Compressor Impeller housing P/N 3021182 replaced with serviceable. Compressor Rotor Assy. and compressor Turbine Disk was sent to Prime Turbines of Balance on W.O. X1846.
3. Gas Generator Section was reassembled.
4. Replaced Main Oil Filter with P/N 1761865 new.
5. Cleaned and Flow checked all fuel nozzles replaced (2) each nozzle tip P/N 3010035 overhauled condition.
6. Cleaned all oil wetted passages.
7. Power Section Inspected for metal for metal contamination OK.
8. Replaced Aircraft Oil Cooler with P/N 8536068, S/N HH-2781 overhauled by Pacific Oil Cooler Service on W.O. 84651.
9. Engine reassembled and performed ground run of engine for leaks and performance OK.

All work performed in accordance with manufacturer's maintenance manual and current FAA regulations.

Don Morrison

A&P

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8-27-12 Hobbs 3008.6 Complied With A 100 Hour Inspection This Date. Cleaned Oil Filter, Main Fuel Filter, Fuel Pump Inlet Screen, P3 Filter. Replace Fuel Pump Outlet Filter. Lubed Starter-Generator Shaft With Molykote. Check All Accessible Oil Strainers And Chip Detector - No Metal Found. Ground Ran Engine, Checked For Leaks And Proper Parameters. This Engine Found Acceptable For Return To Service. Maintenance Was Performed IAW 100 Hour List. Applicable P&W Maintenance Manuals And Publications

Propeller 3008 6 Lubed Propeller With Aero shell # 6
Ground Run, Checked For Leaks And Operating
OK. This Propeller Found OK For Return To Service. All
Work Done In Accordance With Pratt & Whitney Service Manual And Publications.

DATE: 3/7/2013

ENG MODEL: PT6A-27

ENG S/N: PCE-40160 TT: 18,772.9

HOBS: 3239.1

Engine received for vibration and unusual noise. Engine was disassembled, cleaned, inspected and repaired in accordance with Pratt & Whitney MM 3013242 Rev. 38, dated May 18, 2012. The following repairs were made:

1. The following Compressor Components were recoated by Action Plating Corp. on Invoice 323918: Hub P/N 3013111 S/N 6902, 2nd Stage Disk P/N 3013112 S/N 8583, 3rd Stage Disk P/N 3011713 S/N 7981, 3rd Stage Spacer P/N 3014679, Blade Retaining Ring P/N 3010607, 1st Stage Stator P/N 3013661, 2nd Stage Stator P/N 3013662, 3rd Stage Stator P/N 3013663, 2nd Stage Blades P/N 3013602 (32 ea.), and 3rd Stage Blades P/N 3013603 (32 ea.)
2. P/N 3013632 - 2nd Stage Spacer was recoated by Action Plating Corp. on Invoice 324324.
3. Replaced #1 Bearing with P/N 3033459 S/N 5885A1, overhauled by Bearing Inspection, Inc. on Work Order 714445.
4. Replaced #2 Bearing with P/N 3006146 S/N C757, Overhauled by Bearing Inspection, Inc. on Work Order 739453.
5. Compressor Assy. was balanced by Southwest Airmotive, Corp. on Work Order 7254.
6. Replaced #3 Bearing with P/N 3006146 S/N F992, Overhauled by Bearing Inspection, Inc. on Work Order 739454.
7. Replaced #4 Bearing with P/N 3028006 S/N B8963915, Overhauled by Bearing Inspection, Inc. on Work Order 691782.
8. PT Balance Assy. was balanced by Southwest Airmotive, Corp. on Work Order 7178.
9. Replaced #5 Bearing with P/N 3003476 S/N Q851, Overhauled by Bearing Inspection, Inc. on Work Order 738387.
10. Inspected #6 Bearing and found to be in serviceable condition.
11. Replaced (8) Accessory Drive Bearings, all Overhauled by Bearing Inspection, Inc. on various Work Orders as listed: P/N 3101636-01 S/N 47A550 on Work Order 20387, P/N 3028005 S/N 68561 on Work Order 170617, P/N 3010674 S/N J7729 on Work Order 650123, P/N 3010674 S/N P419 on Work Order 650125, P/N 3010674 S/N P6294 on Work Order 650129, P/N 3010674 S/N J7763 on Work Order 714451, P/N 3010674 S/N N6324 on Work Order 714452, P/N 3010674 S/N M6673 on Work Order 714453.
12. Replaced Carbon Seal with P/N 3011218, Repaired by Rexnord Seal Operation on Work Order 1017685.
13. Performed a touch-up grind to Hot Section to restore a minimum of .012" CT clearance.
14. Cleaned and Flow checked Fuel Nozzles - All good.
15. Reassembled Engine and motored for leak check - No leaks found.
16. Performed ground run for performance and found to be in satisfactory condition.
17. Saffied and prepared for shipping.

All work performed in accordance with manufacturer's maintenance manual and current FAA regulations.

Don Morrison

A&P

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
01/14/13	3321.2	Hobbs		
				This Engine installed in Schweizer Ag Cat S/N 5986 N425LS.
				Serviced with BP 2380 Turbo Oil.
				Rigged Engine Controls and Lubricated
				Performed a Ground Run for Leaks and
				Performance OK.
				[REDACTED] A & P [REDACTED]
02-18-2013				Remove engine for shipment to repair
02-18-2013	3378.6			facility. [REDACTED] Southfield Aviation
				[REDACTED] [REDACTED] ACP

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

10-7-2013 PT6A-27
PCE 40160 TT 18855

CT Disk inspected, trued and balanced, 58ea oh ct blades installed pn 3023401, installed overhauled CC Liner. Installed new segments and preground assembly. Fuel nozzles cleaned and flow checked. Hot Section Inspection complied with. Inspected power section and RGB. Replaced all garloc seals on AGB. Engine tested. All work performed with referenc to applicable Pratt & Whitney Canada Manuals and other data and methods acceptable to the administrator.-----END-----

Tarheel Turbines
Certif [REDACTED] A
WO# 111328

JWiggins
[REDACTED]

TIME	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-17-13	3178.10			Installed this engine as received from Tachet Turbinez on Reg # 142544, Gulfstream model G-164B s/n 598B. Engine prop removed from Reg # 143074 Model MC-B3TH-5B s/n BuA 2633B. Installed all fluid carrying hoses, eg. Controls etc. Serviced engine to it's Sump's capacity with 2p 2380. Ground Run engine. Checked for performance and leaks. good. Southern Field Aviation CNC

12-17-13 Hobbs 3629.5 Complied With A 100 Hour Inspection This Date.
Cleaned Oil Filter, Main Fuel Filter, Fuel Pump Inlet Screen. Replaced Fuel Pump
Outlet Filter. Lubed Starter-Generator Shaft With Molykote. Check All Accessible
Oil Strainers And Chip Detector - No Metal Found. Ground Ran Engine, Checked
For Leaks And Proper Parameters. This Engine Found Acceptable For Return To
Service. All Maintenance Performed With Reference To Applicable Pratt &
Whitney Canada Manuals And Other Data And Methods Accessible To The
Administrator.

[illegible]

YEAR DATE	RECORDING TAG TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				5-20-14 Hobbs 3731.8 Complied With A 100 Hour Inspection This Date. Cleared Oil Filter, Main Fuel Filter, Fuel Pump Inlet Screen. Replaced Fuel Pump Outlet Filter. Lubed Starter-Generator Shaft With Molykote. Check All Accessible Oil Strainers And Chip Detector - No Metal Found. Ground Ran Engine, Checked For Leaks And Proper Parameters. This Engine Found Acceptable For Return To Service. All Maintenance Performed With Reference To Applicable Pratt & Whitney Canada Manuals And Other Data And Methods Acceptable To The Administrator. [Redacted Signature]
7-1-2014				Fuel Nozzle Set 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----- Turbine Turbines Cert# [Redacted] 26199103 [Redacted]

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