



Aircraft

TURBINWORKS, INC.

Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs:7085.8
Landings: 12009 2/9/2017

Airframe

Complied with systems checks; ops checked ok
Complied with L/H & R/H engine borescope
Complied with avionic systems checks on ground; ops checked ok
Complied with visual corrosion inspection
Complied with window evaluation by Aviation Window Services
Complied with gear swings; ops checked ok
Removed and replaced ELT battery with new; mfg. date 10/2016, due
12/2018
Complied with cabin altitude pressure switch inspection
Complied with main ship battery capacity check; checked ok
Complied with portable fire extinguisher weight check
Complied with edgelight panel inspection
Complied with L/H & R/H engine compressor wash
Complied with AD Note 2004-23-02 - nose gear fork
AD Note 2014-11-05 DNA by S/N
Removed and replaced two static wicks with new on R/H wing
Removed R/H engine inlet lip de-ice boot, cleaned, prepped, replaced with
new boot P/N: SMR1319 and sealed
Removed and replaced pilot's storm window with new P/N: 50-420083-25
Removed L/H horizontal de-ice boot and replaced with new
P/N: SMR5064-05. Patched holes in R/H horizontal boot.
Removed R/H tire and replaced with rethread P/N: 850T06-3
S/N: 2166S00269R1.
Removed and replaced both DV window seals with new P/N: 101-420126-1
Cleaned and lubricated all flap rollers
Removed and replaced L/H & R/H nacelle fuel cap lanyards and o-rings with
new
Repaired broken wire and bulb on beacon; ops checked ok
Removed and replaced bulb on L/H ice light; ops checked ok
Removed and replaced nose wheel bearing and race with new
Removed and replaced L/H main tire with customer furnished tire

MORE Program:

Qualified and registered L/H & R/H engines with MORE Program
Complied with 50 hr. L/H & R/H chip detector continuity check
Complied with 100 hr. L/H & R/H oil and oil filter analysis
Complied with 100 hr. L/H & R/H compressor wash
Complied with 100 hr. L/H & R/H general condition check
Complied with 100 hr. L/H & R/H power plant adjustment test
Complied with 200 hr. L/H & R/H starter generator gearshaft inspection
Complied with 200 hr. L/H & R/H fuel pump filters
Complied with 400 hr. L/H & R/H borescope hot section inspection
Complied with 400 hr. L/H & R/H compressor section inspection
Complied with 400 hr. L/H & R/H exhaust duct inspection
Complied with 400 hr. L/H & R/H chip detector functional check
Complied with 400 hr. L/H & R/H engine vibration analysis
Complied with 400 hr. L/H & R/H engine instruments calibration
Complied with 400 hr. L/H & R/H propeller balancing by Balance Trends
Complied with 1000 hr. L/H & R/H P3 filter replacement

Brian Grothe
AP

DESCRIPTION OF WORK PERFORMED—
NATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Continued forward from previous page

SUB-TOTALS this page

TOTALS—Carry forward to next page

Make:	Beechcraft		Reg. No:	N48TA
Model:	E90		Serial No:	LW-283
A/C TT:	12596.6	REPAIR LOG ENTRY REPLACE ELT BATTERY BY: DEC 2018	Date:	November 12, 2016
A/C Hobbs:	7060.5			
A/C Cycles:	11984		Page:	1 OF 1

Description of Work Accomplished

Airframe Maintenance

- Removed and replaced L/H engine driven boost pump with an overhauled unit. P/N off & on RG34720A, S/N off B-2441, S/N on B-3140-01. Leak check normal.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

LOG BOOK ENTRY

Beechcraft King Air E-90

~4877 MC
N84TA

S/N LW-283

TT - 12590.5

Date 10-1-16

Installed New carpet using AIP Encore mineral Grey. New ultra leather headliner in cabin area only.
New fabric sidewalls. All materials does meet the FAR for fire requirements.

10-1-16 Date

SUB-TOTALS this page

TOTALS—Carry forward to next page

Make:	Beechcraft		Reg. No:	N48TA	
Model:	E90		Serial No:	LW-283	
A/C TT:	12590.5	AIRFRAME LOG ENTRY		Date:	OCTOBER 1, 2016
A/C Hobbs:	7054.4				
A/C Cycles:	11979			Page:	1 OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- AD status checked thru 2016-20

Airframe Inspections

- C/W Phase 1,2,3,4 inspection.
- C/W 400 hour evaporator filter replacement
- C/W 400 hour L/H & R/H starter-generator spline inspection and lubrication
- C/W SRM Chart 201. Fig 202, 203, 204, 205 & 207. No defects found. NDT performed by QC laboratories.
- C/W SRM Chart 201. Fig# 206 center section visual inspection. No defects noted.
- C/W SRM Chart 201. Fig# 209 wing upper and lower visual inspection.
- C/W SRM 57-13-04-201 Nacelle splice plate visual inspection. No defects noted.
- C/W 1200 hour Pedestal power level pin stop inspection.
- C/W Main battery capacity check.

Airframe Servicing / Lubrication

- C/W 200 hour lubrication.
- C/W 1000 cycle/ 30 month lubrication.

Airframe Maintenance

- Removed and replaced L/H main gear actuator with an overhauled unit. P/N off & on 50-810164-17, S/N off CO1538-1, S/N on CO3220-1.
- Removed and replaced R/H main gear actuator with an overhauled unit. P/N off & on 50-810164-18, S/N off CO1537-1, S/N on CO3152-1. Removed and replaced both support bearings with new. P/N off & on B543DD
- Removed and replaced Nose gear actuator with an overhauled unit. P/N off & on 50-820208-5, S/N off CO1636-1, S/N on CO3168-1
- Removed and replaced Co-pilot's Altimeter with an overhauled/inspected unit. P/N off & on 101735-011002, S/N off 157208, S/N on 155163. Leak check normal.
- Removed and replaced instrument intake filter with new. P/N off & on EBG03-0018.
- Removed and replaced vacuum regulator filter with new. P/N off & on B3-5-1.
- Removed L/H and R/H brake shuttle valves, disassembled, cleaned, resealed, and reinstalled. O-Ring P/N off & on MS28775-015.
- Removed and replaced co-pilot's R/H brake master cylinder with a new unit. P/N on 90-380001-33.
- Removed and replaced L/H and R/H brake pads with new. P/N off & on RA066-0900.
- Removed and replaced pilot's alternate static source valve with new. P/N off & on K4566-3.
- Removed and replaced pilot and copilot static drain valves with new. P/N off & on 101-384184-3.
- Removed and reinstalled repaired elevator trim servo. P/N off & on 1C469-6-456, S/N off & on 21930B.
- Removed L/H & R/H ITT indicator for overhaul. Reinstalled overhauled units. P/N off & on L/H 152C208E, S/N off & on 26, P/N off & on R/H 50-389102-9, S/N off & on 61842-106.
- Removed L/H & R/H torque pressure indicator for overhaul. Reinstalled overhauled units. P/N off & on SR-2AJ, S/N off & on 678 & 656. Operational check normal.
- Removed and replaced copilots static line from aft pressure bulkhead to ground service port with a new fabricated line.
- Removed O2 Bottle for overhaul. Reinstalled overhauled bottle. P/N off & on 801293-05, S/N off & on 798521. Next inspection due 7/2019. Bottle expires 5/2028
- Removed autopilot trim servo for repair. Reinstalled repaired trim servo. P/N on 1C469-6-456, S/N on 21930B.
- Removed autopilot pitch servo for repair. Reinstalled repaired pitch servo. P/N on 1C470-1-422P, S/N on 3368A.
- Removed autopilot pitch trim amp for inspection. Reinstalled inspected unit. P/N off & on IC709-8, S/N off & on 13487F.
- Removed and replaced trim cable segment aft of aft pressure bulkhead with a new fabricated cable.
- Removed and replaced emergency static air source valve with new. P/N off & on K4566-3.
- Removed and replaced cockpit static system drains with new. P/N on 101-384184-3.
- Removed and replaced R/H fuel boost pump with an overhauled unit. P/N on 50-380177-7, S/N on 1AK 11.
- Removed and replaced R/H fuel boost pump adapter assy with new. P/N on 100-920069-1.
- Removed R/H nacelle fuel cell for repair. Reinstalled repaired tank. P/N off & on 2920-4, S/N off & on CR592.
- Removed and replaced prop sysc indicator with an overhauled unit. P/N on 50-389091, S/N on 2317.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

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TOTALS—Carry forward to next page



TURBINeworks, Inc.

**Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer**

Landings: 12009 2/9/2017

L/H Engine S/N: PCE-51659 TTSN: 12442.7 Cycles: 11534

Complied with systems checks; ops checked ok

Complied with L/H & R/H engine borescope

Complied with L/H & R/H engine compressor wash

MORE Program:

Qualified and registered L/H & R/H engines with MORE Program

Complied with 50 hr. L/H & R/H chip detector continuity check

Complied with 100 hr. L/H & R/H oil and oil filter analysis

Complied with 100 hr. L/H & R/H compressor wash

Complied with 100 hr. L/H & R/H general condition check

Complied with 100 hr. L/H & R/H power plant adjustment test

Complied with 200 hr. L/H & R/H starter generator gearshaft inspection

Complied with 200 hr. L/H & R/H fuel pump filters

Complied with 400 hr. L/H & R/H borescope hot section inspection

Complied with 400 hr. L/H & R/H compressor section inspection

Complied with 400 hr. L/H & R/H exhaust duct inspection

Complied with 400 hr. L/H & R/H chip detector functional check

Complied with 400 hr. L/H & R/H engine vibration analysis

Complied with 400 hr. L/H & R/H engine instruments calibration

Complied with 1000 hr. L/H & R/H P3 filter replacement

Brian Grothe

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DESCRIPTION OF WORK PERFORMED—
 URE & CERTIFICATE NO. OF PERSON PERFORMING WORK

forward from previous page

[illegible]

AVIATION TRAINING GROUP/AVIATION PARTNERS O
Attn:

Aircraft: E90

S/N: LW283

Tail No.: N48TA-LH

Date: 8/9/2016

Engine S/N: PCE51659

Engine Model: PT6A-28

BOYNTON BEACH FL 33472

United States

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours.
See www.avlab.com/explain for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE													
Oil appears normal. Filter/Debris analysis is recommended for large particle wear.													
Sample Date: 7/27/2016		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***											
Analysis Date: 8/5/2016		Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
Sample Number: 24		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.1	< 0.1	< 0.1	< 0.1
Cylinder Type:													
TSN/TSO: 5340.1		*** FILTER ANALYSIS RESULTS ***											
Oil Hours: unknown		Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.	
Filter Hours: 241		Amount:											
Oil Added:		Type:											
Filter Wt. (mgs):		Form:											
Flashpoint(deg. F):													
H2O (ppm):													
Total Acid No.:													

Comments: Because Oil Analysis only detects very fine wear, analysis for turbine engines should always include Filter/Debris Analysis to detect any larger particles. For turbine engines, oil and filter/debris analysis together provide the most comprehensive wear metals related data available.

PREVIOUS SAMPLE 1													
SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal Elevated High													
Sample Date: 11/1/2015		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***											
Analysis Date: 11/19/2015		Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
Sample Number: 45		< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	0.7 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)
Cylinder Type:													
TSN/TSO: 5098.8		*** FILTER ANALYSIS RESULTS ***											
Oil Hours: unknown		Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.	
Filter Hours: 925		Amount:											
Oil Added:		Type:											
Filter Wt. (mgs): 56		Form:											
Flashpoint(deg. F):													
H2O (ppm):													
Total Acid No.:													

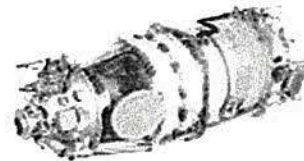
Comments:

PREVIOUS SAMPLE 2													
SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal Elevated High													
Sample Date: 6/4/2015		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***											
Analysis Date: 7/1/2015		Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
Sample Number: 74		< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)
Cylinder Type:													
TSN/TSO: 4688.8		*** FILTER ANALYSIS RESULTS ***											
Oil Hours: unknown		Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.	
Filter Hours: 405		Amount:											
Oil Added:		Type:											
Filter Wt. (mgs): 10		Form:											
Flashpoint(deg. F):													
H2O (ppm):													
Total Acid No.:													

Comments:

SOUTHEAST TURBINES, CORP
FAA CERTIFIED REPAIR STATION E7BR2310

Ft. Lauderdale, FL 33309



Engine Model: PT6A-28 S/N: PCE-51659 Registration: N48TA Hobbs: 7,054.4
 TSN: 12,411.3 CSN: 11,503 TSO: 5,340.1 CSO: 4,997 Position: Left

Performed a **Hot Section Inspection** in accordance with Pratt & Whitney PT6A-28 maintenance manual. C.T. disk assembly P/N 3102421-01 S/N 4B129 was trued and balanced to outside diameter 8.549" Reworked I.E. Duct to an outside diameter of 8.577" using 1ea serviceable I.E. Duct P/N 3018652 S/N 2549 repaired by Turbines Weld under their W.O. # P9455, 1ea C.T. shroud, P/N 3028768 S/N FN2080716, overhauled by Aviation Welding Technology under their W.O.# 105706, 16ea new segments P/N 3019438CL4 and new C.T. vane ring P/N 3032651 S/N HLAC552 F/C 5.69. Final average C.T. blade tip clearance was 0.012." Repaired bleed valve P/N 3100829-03 S/N 1C869 using 1ea new diaphragm P/N 3103347-01. Bleed Valve was leak checked and tested. Cleaned and functionally tested fuel nozzles. Cleaned and inspected 14ea sheaths and 28ea transfer tubes. Installed 1ea combustion liner P/N 3024576 S/N 0934 overhauled by Turbine Weld on their W.O.# P9454. Installed O.E. duct, P/N Installed 1ea new FAA-PMA seal ring P/N E3024979. Installed 1ea T5 Harness P/N 3117924-01 S/N NRA25833 overhauled by Semco Instruments under their W.O.# 206999, and 1ea Overhauled Busbar P/N 3027628 S/N 4M849. Replaced oil filter with new, P/N 3034393WFC. Engine was found to be in **Compliance with AD Note 2014-11-05** and with Pratt & Whitney service bulletin 1427. Installed 19ea new "C"-flange nuts, P/N 3012414. Engine was reassembled and serviced with BP2380. Engine was leak checked, cowled, and a ground performance run was carried out -all were found satisfactory. All work was performed in accordance with Pratt & Whitney PT6A-21/-27/-28 Maintenance Manual, P/N 3013242 revision #43 dated August 24, 2015.

The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under work order #TS6523.

Date: September 16, 2016

Signed: 
 Jason Messina for FAA Repair Station 

Make:	Beechcraft		Reg. No:	N48TA	
Model:	E90		Serial No:	LW-283	
A/C TT:	12590.5	LEFT ENGINE LOG ENTRY		Date:	October 1, 2016
A/C Hobbs:	7054.4	P/N: PT6A-28 S/N: PCE-51659			
A/C Cycles:	11979	TSN: 12411.3 TSO: 5340.1 CSN: 11503 CSO: 4997 TSHSI: 0.0		Page:	1 OF 1

Description of Work Accomplished

Service Bulletins /Airworthiness Directives
 ➤ AD status checked thru 2016-20.

Engine Inspections

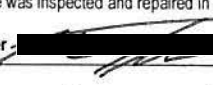
- C/W Phase 1,2,3,4 inspections.
- C/W Engine scavenge oil pump inlet screen inspection.

Engine Maintenance

- Performed engine oil analysis. Submitted to Aviation Laboratories for analysis.
- Performed compressor soap and CT water wash I/A/W Pratt & Whitney M/M.
- Drained engine oil and replenished with new BP2380 oil.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander 

Certificate Number: A&P 

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK			
Make:	Beechcraft			Reg. No:	N48TA		
Model:	E90			Serial No:	LW-283		
A/C TT:	12381.8	LEFT ENGINE LOG ENTRY			Date:	MARCH 12, 2016	
A/C Hobbs:	6845.7	P/N: PT6A-28 S/N: PCE-51659					
A/C Cycles:	11858	TSN: 12202.6 TSO: 5131.4 CSN: 11382 CSO: 4876 TSHSI: 1564.7			Page:	1	OF 1

Description of Work Accomplished

Engine Maintenance

- Performed compressor and CT water wash I/A/W Pratt & Whitney M/M.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

Make:	Beechcraft			Reg. No:	N48TA		
Model:	E90			Serial No:	LW-283		
A/C TT:	12474.5	LEFT ENGINE LOG ENTRY			Date:	APRIL 23, 2016	
A/C Hobbs:	6938.4	P/N: PT6A-28 S/N: PCE-51659					
A/C Cycles:	11911	TSN: 12295.3 TSO: 5224.1 CSN: 11435 CSO: 4929 TSHSI: 1657.4			Page:	1	OF 1

Description of Work Accomplished

Engine Maintenance

- Removed and replaced primary propeller governor with an overhauled unit. P/N off 8210-002-AE, S/N off 2138060, P/N on 8210-002-01, S/N on 11944784. Operation check and leak check normal.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

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Aircraft

TURBINeworks, INC.

Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs:7085.8
Landings: 12009 2/9/2017

R/H Engine S/N: PCE-51662 TTSN: 12442.7 Cycles: 11534

Complied with systems checks; ops checked ok

Complied with L/H & R/H engine borescope

Complied with L/H & R/H engine compressor wash

Removed R/H engine inlet lip de-ice boot, cleaned, prepped, replaced with
new boot P/N: SMR1319 and sealed

MORE Program:

Qualified and registered L/H & R/H engines with MORE Program

Complied with 50 hr. L/H & R/H chip detector continuity check

Complied with 100 hr. L/H & R/H oil and oil filter analysis

Complied with 100 hr. L/H & R/H compressor wash

Complied with 100 hr. L/H & R/H general condition check

Complied with 100 hr. L/H & R/H power plant adjustment test

Complied with 200 hr. L/H & R/H starter generator gearshaft inspection

Complied with 200 hr. L/H & R/H fuel pump filters

Complied with 400 hr. L/H & R/H borescope hot section inspection

Complied with 400 hr. L/H & R/H compressor section inspection

Complied with 400 hr. L/H & R/H exhaust duct inspection

Complied with 400 hr. L/H & R/H chip detector functional check

Complied with 400 hr. L/H & R/H engine vibration analysis

Complied with 400 hr. L/H & R/H engine instruments calibration

Complied with 1000 hr. L/H & R/H P3 filter replacement

Brian Grothe

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Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs: 7085.8
Landings: 12009 2/24/2017

Airframe

MORE Program:

Complied with 1400 hr. L/H & R/H fuel nozzle overhaul/replacement; rem
L/H & R/H fuel nozzles and installed OHC/EXC L/H & R/H fuel nozzles, le
checked ok and engine runs ok.

Complied with 4100 hr. L/H & R/H start valve overhaul; removed L/H & R
start valves and installed OHC/EXC valves P/N: 25234-2, L/H S/N: 7498
R/H S/N: 13376, leak checked ok and engine runs ok.

Complied with 4100 hr. L/H engine ignition box overhaul; removed L/H ei
gnition box and installed OHC/EXC ignition box P/N: 10-381550-4
S/N: 14491

Jeff Grothe

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/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs: 7085.8
Landings: 12009 2/24/2017

R/H Engine S/N: PCE-51662 TTSN: 12442.7 Cycles: 11534

MORE Program:

Complied with 1400 hr. L/H & R/H fuel nozzle overhaul/replacement; rem
L/H & R/H fuel nozzles and installed OHC/EXC L/H & R/H fuel nozzles, le
checked ok and engine runs ok.

Complied with 4100 hr. L/H & R/H start valve overhaul; removed L/H & R/
start valves and installed OHC/EXC valves P/N: 25234-2, L/H S/N: 7498 a
R/H S/N: 13376, leak checked ok and engine runs ok.

Jeff Grothe

AP



Aircraft

TURBINeworks, INC.

Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs: 7085.8
Landings: 12009 2/24/2017

L/H Engine S/N: PCE-51659 TTSN: 12442.7 Cycles: 11534

MORE Program:

Complied with 1400 hr. L/H & R/H fuel nozzle overhaul/replacement; removed
L/H & R/H fuel nozzles and installed OHC/EXC L/H & R/H fuel nozzles, leak
checked ok and engine runs ok.

Complied with 4100 hr. L/H & R/H start valve overhaul; removed L/H & R/H
start valves and installed OHC/EXC valves P/N: 25234-2, L/H S/N: 7498 and
R/H S/N: 13376, leak checked ok and engine runs ok.

Complied with 4100 hr. L/H engine ignition box overhaul; removed L/H engine
ignition box and installed OHC/EXC ignition box P/N: 10-381550-4
S/N: 14491

Jeff Grothe

AP

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TOTALS—Carry forward to next page

AVIATION TRAINING GROUP/AVIATION PARTNERS O
Attn:

Aircraft: E90

S/N: LW283

Tail No.: N48TA-RH

Date: 8/9/2016

Engine S/N: PCE51662

Engine Model: PT6A-28

BOYNTON BEACH FL 33472

United States

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com/explain for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE		Oil appears normal. Filter/Debris analysis is recommended for large particle wear.																																																						
Sample Date: 7/27/2016 Analysis Date: 8/5/2016 Sample Number: 20 Cylinder Type: TSN/TSO: 5340.1 Oil Hours: unknown Filter Hours: 241 Oil Added: Filter Wt. (mgs): Flashpoint(deg. F): H2O (ppm): Total Acid No.:		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION *** <table border="1"> <thead> <tr> <th>Iron</th> <th>Copper</th> <th>Nickel</th> <th>Chromium</th> <th>Silver</th> <th>Magnesium</th> <th>Aluminum</th> <th>Lead</th> <th>Silicon</th> <th>Titanium</th> <th>Tin</th> <th>Moly.</th> </tr> </thead> <tbody> <tr> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> <td>4.9</td> <td>< 0.1</td> <td>< 0.1</td> <td>< 0.1</td> </tr> </tbody> </table>											Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	4.9	< 0.1	< 0.1	< 0.1																				
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Amount:																																																								
Type:																																																								
Form:																																																								
Comments: Because Oil Analysis only detects very fine wear, analysis for turbine engines should always include Filter/Debris Analysis to detect any larger particles. For turbine engines, oil and filter/debris analysis together provide the most comprehensive wear metals related data available.																																																								
PREVIOUS SAMPLE 1		SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal Elevated High																																																						
Sample Date: 11/1/2015 Analysis Date: 11/19/2015 Sample Number: 44 Cylinder Type: TSN/TSO: 5098.8 Oil Hours: unknown Filter Hours: 920 Oil Added: Filter Wt. (mgs): 40 Flashpoint(deg. F): H2O (ppm): Total Acid No.:		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION *** <table border="1"> <thead> <tr> <th>Iron</th> <th>Copper</th> <th>Nickel</th> <th>Chromium</th> <th>Silver</th> <th>Magnesium</th> <th>Aluminum</th> <th>Lead</th> <th>Silicon</th> <th>Titanium</th> <th>Tin</th> <th>Moly.</th> </tr> </thead> <tbody> <tr> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>2.7 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> </tr> </tbody> </table>											Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	2.7 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)																				
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Type:																																																								
Form:																																																								
Comments:																																																								
PREVIOUS SAMPLE 2		SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal Elevated High																																																						
Sample Date: 6/4/2015 Analysis Date: 7/1/2015 Sample Number: 77 Cylinder Type: TSN/TSO: 4688.8 Oil Hours: unknown Filter Hours: 405 Oil Added: Filter Wt. (mgs): 18 Flashpoint(deg. F): H2O (ppm): Total Acid No.:		*** OIL ANALYSIS RESULTS IN PARTS PER MILLION *** <table border="1"> <thead> <tr> <th>Iron</th> <th>Copper</th> <th>Nickel</th> <th>Chromium</th> <th>Silver</th> <th>Magnesium</th> <th>Aluminum</th> <th>Lead</th> <th>Silicon</th> <th>Titanium</th> <th>Tin</th> <th>Moly.</th> </tr> </thead> <tbody> <tr> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> <td>< 0.1 (N/A)</td> </tr> </tbody> </table>											Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)	< 0.1 (N/A)																				
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Comments:																																																								

Make:	Beechcraft		Reg. No:	N48TA		
Model:	E90		Serial No:	LW-283		
A/C TT:	12590.5	RIGHT ENGINE LOG ENTRY	Date:	October 1, 2016		
A/C Hobbs:	7054.4	P/N: PT6A-28 S/N: PCE-51662				
A/C Cycles:	11979	TSN: 12411.3 TSO: 5340.1 CSN: 11503 CSO: 4997 TSHSI: 0.0	Page:	1	OF	1

Service Bulletins /Airworthiness Directives

- ## Engine Inspections

- C/W Phase 1,2,3,4 inspections.
- C/W Engine scavenge oil pump inlet screen inspection.

Engine Maintenance

- Performed engine oil analysis. Submitted to Aviation Laboratories for analysis.
- Performed compressor soap and CT water wash I/A/W Pratt & Whitney M/M.
- Drained engine oil and replenished with new BP2380 oil.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: **Matthew Callander**

Certificate Number: A&P

[illegible]

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK			
Make: Beechcraft				Reg. No:	N48TA		
Model: E90				Serial No:	LW-283		
A/C TT: 12381.8	RIGHT ENGINE LOG ENTRY			Date:	MARCH 12 2016		
A/C Hobbs: 6845.7	P/N: PT6A-28 S/N: PCE-51662						
A/C Cycles: 11858	TSN: 12202.6 TSO: 5131.4 CSN: 11382 CSO: 4876 TSHSI: 1564.7			Page:	1	OF	1

Description of Work Accomplished

Engine Maintenance

➤ Performed compressor and CT water wash I/A/W Pratt & Whitney M/M.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&I

SOUTHEAST TURBINES, CORP
FAA CERTIFIED REPAIR STATION E7BR2310

Ft. Lauderdale, FL 33309



Engine Model: PT6A-28 S/N: PCE-51662 Registration: N48TA Hobbs: 7,054.4
 TSN: 12,411.3 CSN: 11,503 TSO: 5,340.1 CSO: 4,997 Position: Right

Performed a **Hot Section Inspection** in accordance with Pratt & Whitney PT6A-28 maintenance manual. C.T. disk assembly, P/N 3102421-01 S/N 72A759, was debladed to comply with 3000/5000hr inspection for stretch-check and NDT. Re-bladed, trued, and balanced to outside diameter 8.552" using 58ea original serviceable blades, P/N 3039901. Reworked I.E. Duct Assy. to an outside diameter of 8.580" using 1ea serviceable I.E. Duct, P/N 3018652 S/N 503-2990, inspected by Southeast Turbines under their W.O. # TS6546, 1ea serviceable C.T. shroud, P/N 3020258 S/N 12468, 16ea new segments, P/N 3019438CL4, and serviceable C.T. vane ring, P/N 3032651 S/N 013022 F/C 13.36. Final average C.T. blade tip clearance was 0.013." Replaced air pressure governor tube with serviceable tube, P/N 3011847, inspected by Southeast Turbines under their W.O.# 6524. Bleed Valve, P/N 3100829-03 S/N 3E656, was repaired using a new diaphragm, P/N CA3103347-01, leak checked and tested. Cleaned and functionally tested fuel nozzles. Replaced 3ea nozzles tips with overhauled tips, P/N 27700-2, using 3ea new lock washers, P/N 3005305. Cleaned and inspected 14ea sheaths and 26ea transfer tubes—replaced 2ea tubes with serviceable tubes, P/N 3011155, inspected by Southeast Turbines under W.O.# 6333. Re-installed 1ea serviceable combustion liner, P/N 3024576 S/N RT883W7. Re-installed O.E. duct, P/N 3021379 S/N 088290. Installed 1ea new FAA-PMA seal ring P/N E3024979. Installed 1ea T5 Harness, P/N 3117924-01 S/N NR18130, overhauled by Semco Instruments under their W.O.# 212364, and 1ea Overhauled Busbar P/N 3027628 S/N 0081. Re-installed P.T. stator, P/N 3024862CL11.8 S/N 3R861, repaired by P&WC Wichita Falls under W.O.# 407166-1. Replaced oil filter with new, P/N 3034393WFC. Engine was found to be in **Compliance with AD Note 2014-11-05** and with Pratt & Whitney service bulletin 1427. Installed 20ea new "C"-flange nuts, P/N 3012414. Engine was reassembled and serviced with BP2380. Engine was leak checked, cowed, and a ground performance run was carried out—all were found satisfactory. All work was performed in accordance with Pratt & Whitney PT6A-21/-27/-28 Maintenance Manual, P/N 3013242 revision #43 dated August 24, 2015.

The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under work order #TS6524.

Date: September 16, 2016

Sign:

Jason Messina for FAA Repair Station

SUB-TOTALS this page

TOTALS—Carry forward to next page



Aircraft

TURBINeworks, INC.

Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs:7085.8
Landings: 12009 2/9/2017
L/H Propeller TT: 7233.1 TSO: 682.7
Complied with systems checks; ops checked ok
MORE Program:
Complied with 400 hr. L/H & R/H propeller balancing by Balance Trends

Brian Grothe
AP

DESCRIPTION OF WORK PERFORMED—
ATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

at forward from previous page

SUB-TOTALS this page

TOTALS—Carry forward to next page

Make:	Beechcraft		Reg. No:	N48TA
Model:	E90		Serial No:	LW-283
A/C TT:	12349.2	LEFT PROPELLER LOG ENTRY	Date:	November 1, 2015
A/C Hobbs:	6813.1	P/N: 4HFR34C762-I S/N: 970909		
A/C Cycles:	11847	PTSMOH 410.0	Page:	1 OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- AD status checked thru 2015-22

Propeller Inspections

- C/W Phase 3 inspection

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

Make:	Beechcraft		Reg. No:	N48TA
Model:	E90		Serial No:	LW-283
A/C TT:	12590.5	LEFT PROPELLER LOG ENTRY	Date:	October 1, 2016
A/C Hobbs:	7054.4	P/N: 4HFR34C762-I S/N: 970909		
A/C Cycles:	11979	PTSMOH 651.3	Page:	1 OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- AD status checked thru 2016-20

Propeller Inspections

- C/W Phase 1,2,3,4 inspection.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

N48TA Jan 31, 2017 Left Prop

This Propeller has been dynamically balance according to Aces model 2020 ProBalancer equipment and instructions "ACES System Guide to Propeller Balancing" # 1000-OM-01 revision 2.0 to a level of .06 IPS.

Eric Larabell A&P

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK			
Make: Beechcraft				Reg. No:	N48TA		
Model: E90				Serial No:	LW-283		
A/C TT:	11939.2	LEFT PROPELLER LOG ENTRY			Date:	June 8, 2015	
A/C Hobbs:	6403.1	P/N: 4HFR34C762-I S/N: 970909					
A/C Cycles:	11643	PTSMOH 0.0			Page:	1	OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- > S/B complied with: Thru 266 per overhaul 8130
- > AD status checked thru 2015-11.

Propeller Inspections

- > C/W Phase 1,2,3,4 inspections.

Propeller Maintenance

- > Removed propeller for overhaul by Palm Beach Aircraft Propeller Work Order # 18297. Reinstalled overhauled propeller. Next overhaul due at 4000 hours or 72 months. Propeller installed by Robert Pierce A&P 2657776.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

Make: Beechcraft				Reg. No:	N48TA		
Model: E90				Serial No:	LW-283		
A/C TT:	12158.7	LEFT PROPELLER LOG ENTRY			Date:	August 8, 2015	
A/C Hobbs:	6622.6	P/N: 4HFR34C762-I S/N: 970909					
A/C Cycles:	11723	PTSMOH 219.5			Page:	1	OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- > AD status checked thru 2015-16.

Propeller Inspections

- > C/W Phase 2 inspection

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

SUB-TOTALS this page

TOTALS—Carry forward to next page



Aircraft

TURBINeworks, INC.

Airframe/engine/prop/turbine/inspection/repair
/hotsection/Authorized Raisbeck Dealer

Beechcraft E90 S/N: LW-283 N48TA ATT: 12621.9 Hobbs:7085.8
Landings: 12009 2/9/2017
R/H Propeller TT: 7233.1 TSO: 682.7
Complied with systems checks; ops checked ok
MORE Program:
Complied with 400 hr. L/H & R/H propeller balancing by Balance Trends

Brian Grothe
AP

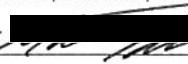
DESCRIPTION OF WORK PERFORMED—
TURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

t forward from previous page

SUB-TOTALS this page

TOTALS—Carry forward to next page

Make:	Beechcraft		Reg. No:	N48TA
Model:	E90		Serial No:	LW-283
A/C TT:	12349.2	RIGHT PROPELLER LOG ENTRY	Date:	November 1, 2015
A/C Hobbs:	6813.1	P/N: 4HFR34C762-I S/N: 970907		
A/C Cycles:	11847	PTSMO: 410.0	Page:	1 OF 1

Description of Work Accomplished Service Bulletins / Airworthiness Directives ➤ AD status checked thru 2015-22 Propeller Inspections ➤ C/W Phase 3 inspection	
Approval for Return to Service The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service. Authorized Signature: Matthew Callander  Certificate Number: A&P 	

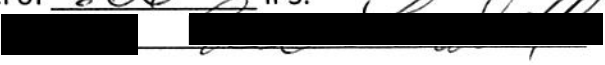
Make:	Beechcraft		Reg. No:	N48TA
Model:	E90		Serial No:	LW-283
A/C TT:	12590.5	RIGHT PROPELLER LOG ENTRY	Date:	October 1, 2016
A/C Hobbs:	7054.4	P/N: 4HFR34C762-I S/N: 970907		
A/C Cycles:	11979	PTSMO: 651.3	Page:	1 OF 1

Description of Work Accomplished Service Bulletins / Airworthiness Directives ➤ AD status checked thru 2016-20. Propeller Inspections ➤ C/W Phase 1,2,3,4 inspection.	
Approval for Return to Service The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service. Authorized Signature: Matthew Callander  Certificate Number: A&P 	

N48TA Jan 31, 2017

Right Prop

This Propeller has been dynamically balance according to Aces model 2020 ProBalancer equipment and instructions "ACES System Guide to Propeller Balancing" # 1000-OM-01 revision 2.0 to a level of .006 IPS.

Eric Larabell A&P 

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TOTALS—Carry forward to next page

No. _____		DATE		TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK		
Make:	Beechcraft					Reg. No:	N48TA		
Model:	E90					Serial No:	LW-283		
A/C TT:	11939.2	RIGHT PROPELLER LOG ENTRY				Date:	June 8, 2015		
A/C Hobbs:	6403.1	P/N: 4HFR34C762-I S/N: 970907							
A/C Cycles:	11643	PTSMO: 0				Page:	1	OF 1	

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- > S/B's complied with: Thru 266 per overhaul 8130
- > AD status checked thru 2015-11

Propeller Inspections

- > C/W Phase 1,2,3,4 inspections.

Propeller Maintenance

- > Removed propeller for overhaul by Palm Beach Aircraft Propeller, Work Order # 18298. Reinstalled overhauled propeller. Next overhaul due at 4000 hours or 72 months. Propeller installed by Robert Pierce A&P 2657776.

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

Make:	Beechcraft					Reg. No:	N48TA	
Model:	E90					Serial No:	LW-283	
A/C TT:	12158.7	RIGHT PROPELLER LOG ENTRY				Date:	August 8, 2015	
A/C Hobbs:	6622.6	P/N: 4HFR34C762-I S/N: 970907						
A/C Cycles:	11723	PTSMO: 219.5				Page:	1	OF 1

Description of Work Accomplished

Service Bulletins / Airworthiness Directives

- > AD status checked thru 2015-16

Propeller Inspections

- > C/W Phase 2 inspection

Approval for Return to Service

The article(s) identified above was inspected and repaired in accordance with current FAA regulations, and with respect to that work, is approved for return to service.

Authorized Signature: Matthew Callander

Certificate Number: A&P

SUB-TOTALS this page

TOTALS—Carry forward to next page