

DATE	TOTAL TIME IN SERVICE	TACH/RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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ARKANSAS TURBINE SERVICES, INC.

WALNUT RIDGE, AR 72476

ENGINE SERIAL # P-92143

ENGINE MODEL # TPE 331-1-151A

ENGINE PART # 893250-2

TSN- 6,350.6

CSN- UNK

TSO- 3.288.4

CSO- 2.334

12 NOV 2014

THIS ENGINE WAS REMOVED FROM MU-2B-20 (N38BE SERIAL # 210) FROM THE LEFT POSITION I/A/W CURRENT HONEYWELL MM 72-00-92 AND MITSUBISHI AMM. THE AIRCRAFT HOUR METER READS 6,355.6 HOURS. THIS AIRCRAFT IS BEING PARTED OUT.

SIGNATURE

CERTIFICATE #

A&P

3/24/15	788	1.0	Test Flight. All systems normal
3/24/15	—	—	TEST INSTALLED ON AIRCRAFT N8376K S/N 675B
TSN	6350.6	—	AIRCRAFT TIME TT 7805.0 HOURS 000.0
TSO	3288.4	—	ENGINE INSTALLED PER AGRISET INC STC SA 7987 SW
Aircraft hours	—	000.0	HONEYWELL 72-00-92 MM, SCHWEIZER AL-6AT MM, AL43.1316, AND C.A.M.P.
			ENGINE RUN-UP NORMAL 5310 5310 @ 455°C
			I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED
			IN ACCORDANCE WITH AN ANNUAL INSPECTION AND
			HAS BEEN FOUND TO BE IN AN AIRWORTHY CONDITION.
			JASON LINDQUIST
			IA AP
(5.0 hr. meter)	TSN 6355.6	TSO 3293.4	CSO 2337
			Engine Removed from N8376K S/N 675B
			for trouble shooting NTS + Beta Mode Transition Problem
			A&P

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Arkansas Turbine Services Inc.

Pocahontas, Arkansas 72455

W/O 1241

Date 5/14/2015

TSO. 3,293:4

CSO. 2337

TPE331-1 151A

P92143

Received engine in order to trouble shoot operational problem I/A/W Honeywell 72-00-92.

PARTS INSTALLED NEW CONDITION: 897513-1 fuel filter, 3101436-1 oil filter, new o'ring seals, gaskets, and hardware, 9 qt. BP 2380 Turbine oil.

PARTS INSTALLED IN OVERHAULED OF INSPECTED: 3101092-1 TURBINE BEARING s/n gte#0236, 896186-1 bracket.

Removed engine and prop from Ag-Cat N8376K S/N G164-675B per customers request. Removed engine turbine rotors and 2nd. Stage compressor and sent out for balance; removed 3101726-2 torque sensor and sent out for testing. Reassembled engine compressor section and turbine section, and Torque sensor; set trip pressure to 30 PSI. All work was performed I/A/W Honeywell 72-00-92 and current FAA rules and regulations. Checked All Airworthiness Directives for this engine this date.

Installed this engine on our propeller test stand and performed a rigging run sheet, and a NTS. Check; light on @ 18%, and performed a vibration survey; Turbine .14 IPS @ 41,400 and the gearbox .302 MAX. Performed a torque indication check (LEBOW) I/A/W SIL331-102 R6. SEE NEW TORQUE PLOT IN THE FRONT OF LOG BOOK dated 05/15/2015: Removed test propeller and Lebow and installed customers Hartzell HCB3TN-5 propeller and performed a check balance I/A/W ACES 1000-om-01, manual to .08 IPS. Removed engine from test cell and reinstalled this engine on Ag-Cat S/N G164-675B I/A/W Agri-Jet Power installation procedures and Honeywell 72-00-92. Performed an operational ground run and leak check; installed the engine cowling and prepared aircraft for a check flight. All work was performed I/A/W current Honeywell 72-00-92, and current FAA rules and regulation and is approved for return to service in regard to the work performed.

DAVID BLAKENEY

A & P

This aircraft and engine performed a satisfactory check flight this date 05/15/ 2015 including a Beta transition check.

Pilot signature

certificate #

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* TOLEDO REPAIR STATION DSCR311D *
* Swanton, Ohio 43558
TEL: [REDACTED] FAX: [REDACTED]

REG: N8376K ACSN: 675B ACTT: UNKN Hobbs: 197.5
ENG: P-92143 TSO: 3490.9 CSO: 2337

- Complied with fuel nozzle flow check by replacing all nozzles with like set, P/N 3101155-1 (10 each) and P/N 3101156-1 (5 each). R&R of fuel nozzles complied with I.A.W. Honeywell TPE 331-1-151G Maintenance Manual section 73-10-09. Used 1 ea. P/N 651-525-9004 conical seal. Ground run leak check satisfactory at this time.
- Complied with oil sample and filter change.

"MAINTENANCE RELEASE"

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was APPROVED for return to service. This approval is with respect to work performed only. Pertinent details of the repair/inspection are on file at this Repair Station # [REDACTED] under Work Order TOT-6681.

SIGNATURE for [REDACTED]

August 21, 2015

ANITA HAROLD



* TOLEDO REPAIR STATION DSCR311D *
* Swanton, Ohio 43558
TEL: [REDACTED] FAX: [REDACTED]

REG: N8376K ACSN: 675B ACTT: UNKN Hobbs: 198.3
ENG: P-92143 TSO: 3491.7 CSO: 2338

Started engine to warm up engine oil prior to draining the oil. Removed oil tank drain plug, disconnected lower oil cooler line, and disconnected unfeather pump oil lines to drain engine oil. Rotated engine by hand until oil stopped draining. Reconnected unfeather pump oil lines and oil cooler line. Installed new O ring P/N S9413-558 on oil drain plug and installed in oil tank and safetied. Removed and replaced oil filter P/N 3001436-1 and installed new oring P/N S9413-227 on oil filter housing, and safetied. Serviced oil tank with BP 2380 turbine oil. Ground run satisfactory. Update oil sample within 10 flying hours.

"MAINTENANCE RELEASE"

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was APPROVED for return to service. This approval is with respect to work performed only. Pertinent details of the repair/inspection are on file at this Repair Station # [REDACTED] under Work Order TOT-6801.

SIGNATURE for [REDACTED]

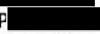
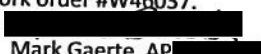
August 31, 2015

ANITA HAROLD

09-03-2015 Honeywell TPE331-1-151A SN# P-92143 TSO:3494.8
N8376K G164B SN# 675B ACTT: 8011.4 Hobbs: 206.4

Took sample of oil from oil tank, removed engine oil filter element for SOAP analysis. Installed new oil filter element PN# 3001436-1. Resafetied filter element housing, performed leak check, found satisfactory.

Mark Gaerte AP [REDACTED]

DATE	TOTAL TIME IN SERVICE	TACH/ RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK		
09-25-2015			Honeywell	TPE331-1-151A	SN# P-92143
	N8376K	G164B SN# 675B		ACTT: 8039.7	TSO:3523.1
					Hobbs: 234.7
Took sample of oil from oil tank, removed engine oil filter element for SOAP analysis. Installed new oil filter element PN# 3001436-1. Resafetied filter element housing, performed leak check, found satisfactory.					
 Mark Gaerte AP 					
11-12-2015			Honeywell	TPE331-1-151A	SN# P-92143
	N8376K	G164B SN# 675B		ACTT: 8040	TSO: 3523.8
					Hobbs: 235
Removed Hartzell propeller HC-B3TN-5M SN# BUA19488 IAW Hartzell manual 139 Rev. 13 June 2015. Sent to H&S Propeller Shop for repair.					
 Mark Gaerte AP 					
03-04-2016			Honeywell	TPE331-1-151A	SN# P-92143
	N8376K	G164B SN# 675B		ACTT: 8040	TSO: 3523.8
					Hobbs: 235
Reinstalled Hartzell propeller HC-B3TN-5M SN# BUA19488 IAW Hartzell manual 139 Rev. 13 June 2015 after repair. See H&S Propeller Shop work order #W46037.					
 Mark Gaerte AP 					
AMES AVIATION, LTD.  Wauseon, OH 43567 Date 04/01/2016 Work Order: 2719			PROPELLER LOG Aircraft Mfg: GRUMMAN ACFT ENG COR-SCHWEIZER Model: G-164B Aircraft S/N: 675B Reg # N8376 Aircraft Total Time: 8040.7 Prop Mfg. Hartzell Prop Model HC-B3TN-5M S/N: BUA19488 Hobbs: :235.7		
C/W Prop balance to below .2 ISC using Chadwick Model M77 This propeller is approved for return to service upon the completion of the work above. —End— Randy E. Ames  AP  IA					
06-02-2016			Honeywell	TPE331-1-151A	SN# P-92143
	N8376K	G164B SN# 675B		ACTT: 8091	TSO:3574.8
					Hobbs: 286
SOAP sample taken. Replaced oil filter element. Performed leak check, found satisfactory.					
 Mark Gaerte AP 					

DATE	TOTAL TIME IN SERVICE	TACH/ RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
10-19-2016	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3697.8
N8376K	G164B SN# 675B	ACTT: 8214.9	Hobbs: 409.9	
SOAP sample taken. Replaced oil filter element. Performed leak check, found satisfactory.				
[REDACTED] Mark Gaerte AP [REDACTED]				
12-10-2016	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3702.0
N8376K	G164B SN# 675B	ACTT: 8218.2	Hobbs: 413.2	
Removed propeller and engine for gearbox inspection.				
[REDACTED] Mark Gaerte AP [REDACTED]				
2/28/2017	S/N P-92143	Hobbs 413.2	TSO 3702.0	
Performed gearbox inspection per Honeywell M/M 72-00-92 gearbox inspection guide. Complied with S/B 72-0634 by installation of new comp. brg. P/N 3101405-1 S/N L09-1563. Complied with S/B 72-0119 by installation of torsion shaft P/N 3102028-2. Ovh. coupler P/N 894119-1, Svc. quill P/N 894124-1. Reinstalled continued time torque sensor P/N 3101726-2 S/N P-3837 with 1134.4 TT. Reassembled gearbox and set trip press. Installed Ovh. sleeve assy. in PPC and replaced all o-rings and gaskets. Removed rear carbon seal and installed Ovh. seal P/N 896494-3 S/N 6-02176-1249 and Ovh. rotor P/N 896549-2 S/N 19801-V-2036. Installed Ovh turbine brg. P/N 3101092-1 S/N 96-19914-1349 and retainer P/N 3101091-2. Reassembled with new turbine nut P/N 3108066-1. Installed customer supplied Ovh. fuel nozzle set from Tennessee Aircraft. Installed engine on test cell and performed lebow. Adjusted torque compensator and made new graph. Performed vibration survey. Vibration is within acceptable limits. Operational check and leak check OK. All work performed in accordance with current regulations of the Federal Aviation administration and is approved for return to service with respect to work performed. Cycles for 2016 68 Major				
[REDACTED] <i>AP</i> [REDACTED]				
Note: SOAP due in 25 engine operating Hrs.				
03-20-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3702.0
N8376K	G164B SN# 675B	ACTT: 8218.2	Hobbs: 413.2	
Reinstalled engine and propeller on N8376K IAW Agri-Jet Power installation procedures and Honeywell Manual 72-00-92. Performed operational ground run and leak check, found satisfactory. Inspected engine IAW FAR 43 Appendix D para (d) 100 hour engine inspection and found to be in an airworthy condition.				
[REDACTED] Mark Gaerte AP [REDACTED]				
07-06-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3722.0
N8376K	G164B SN# 675B	ACTT: 8239.1	Hobbs: 437.4	
SOAP sample taken. Replaced oil filter element. Performed leak check, found satisfactory.				
[REDACTED] Mark Gaerte AP [REDACTED]				

DATE	TOTAL TIME IN SERVICE	TACH/ RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
09-04-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3895
N8376K	G164B SN# 675B	ACTT: 8411.2	Hobbs: 606.2	
Added .5 qrt BP2380 turbine oil.				
Mark Gaerte AP [REDACTED]				

09-12-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3924
N8376K	G164B SN# 675B	ACTT: 8440.4	Hobbs: 635.4	
SOAP sample taken. Replaced oil filter element. Performed leak check, found satisfactory. Added .5 qrt BP 2380 engine oil. Lubed engine control linkages.				
Mark Gaerte AP [REDACTED]				

10-05-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3963.2
N8376K	G164B SN# 675B	ACTT: 8479.4	Hobbs: 674.4	
SOAP sample taken on oil only. Removed starter generator. Tightened starter generator adapter mount. Greased starter generator splines, reinstalled.				
Mark Gaerte AP [REDACTED]				

10-21-2017	Honeywell	TPE331-1-151A	SN# P-92143	TSO:3973.2
N8376K	G164B SN# 675B	ACTT: 8489.4	Hobbs: 684.4	
SOAP sample taken on filter element only. Installed new oil filter element # 3001436-1. Removed starter generator for repair.				
Mark Gaerte AP [REDACTED]				



★ TOLEDO REPAIR STATION DSCR311D ★
 * Swanton, Ohio 43558
 TEL: [REDACTED] FAX: [REDACTED]

SN: P-92143 TSN: 7035.4 Hobbs: 684.4
 TSO: 3973.2

Completed the following referencing Honeywell Report 72-00-92R13: A) 100, 150, 200, 300, 400, 600 & 800 Hr. Periodic Inspection items (excluding OSG Check). Installed new Fuel Filter PN: 7511952 & reinstalled customer removed Fuel Nozzles 5 ea. PN: 3101156-1 & 10 ea. PN: 3101155-1 w/ 128.8 Hrs. remaining until dynamic flow check due; B) Borescope inspection of 1st Stator area, results provided to customer; C) Installed O/H Starter Gearshaft PN: 3103192-3, New Gearshaft Seal PN: 3103872-1 & Splined Adapter PN: 3103828-1. C/W HON SB's: 72-0416R6, 72-0616R0 & 72-0730R0; D) Installed New (0.0 TSN) Starter Gearshaft Aft Bearing PN: 358206, SN: 16-162255-06114. **END**

Note 1: Last Fuel Control / Fuel Pump Mating Spline Inspection IAW AD 2006-15-08 accomplished 17 Oct. 2012 @ Engine TSN: 6349.1, TSO: 3286.9. Next Fuel Control / Fuel Pump Mating Spline Inspection IAW superseding AD 2015-12-04 due at Engine TSN: 7349.1, TSO: 4286.9 (Due in 313.7 Hrs).

Note 2: Engine requires Ground Run, Leak Check & Overspeed Governor (OSG) Check prior to return to service.

"MAINTENANCE RELEASE"

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was **APPROVED** for return to service with respect to work performed. Pertinent details of the repair/inspection are on file at this Repair Station # [REDACTED] under Work Order # TOT-10702.

SIGNATURE:
 For [REDACTED]

Jeffrey H. Cousin

April 04, 2018

1. Approving Civil Aviation Authority/Country: 2 FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 893250-2-1
4. Organization Name and Address:  GREAT LAKES TURBINES, INC. [Redacted] Toledo, OH 43617 FAA CRS# [Redacted]				5. Work Order/Contract/Invoice Number: 1624	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Turboprop Engine	893250-2	1	P-92143	REPAIRED
12. Remarks: Inspected and repaired turboprop engine in accordance with Honeywell Reports 72-00-92, Rev. 13 and 72-IR-10, Rev. 9. Complied with engine Continuous Airworthiness Maintenance (CAM) Inspection in accordance with Service Bulletin 72-0917 and tested engine. Performance and leak checks satisfactory. Engine shipped less fuel control and anti-icing system. See logbook entry for parts installed/replaced. TSN: 7212.2 CSN: UNKOWN TSCAM: 0.0 CSCAM: 0 AD's Complied With: 2018-13-05, 2002-21-15, 98-04-15, 93-15-11, 84-10-06 R1, 84-01-04 SB's Complied With: 72-0256, 72-0301, 72-0444, 72-0170, 72-0675, 72-0763, 72-0745, 72-0888, 72-0863, 72-0935, 72-0936, 72-0958, 72-0962, 72-0952, 72-2000, 72-2132, 72-2167, A72-2111, A72-2082, 73-0208, 79-0010, 73-0186, 72-0595, 72-0250, 73-0156, 73-0146, 79-0014, 72-0555, 72-0907, 72-0917, 72-0606, A72-0685, 72-2267 Involute: C/W Magnetic Particle Inspection (MPI): C/W Fluorescent Penetrant Inspection (FPI): C/W					
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☒ 14 CFR 43.9 Return to Service Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:	14c. Approval/Certificate No.:
[Redacted]		[Redacted]		[Redacted]	[Redacted]
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):
[Redacted]		[Redacted]		Greg Thibodeau	17-May-2019
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

ENGINE MAINTENANCE & SERVICE RECORD

(SERVICE BULLETIN COMPLIANCE, REPAIRS, INSPECTIONS, ETC.)



DATE

ENGINE
SERIAL NO.

MAINTENANCE PERFORMED

AUTHORIZED SIGNATURE

A/C REG. #: N8376K
A/C S/N: 675B
Engine TSN: 7212.2
Engine CSN: UNKNOWN



Hobbs: 884.4 861.2
DATE: 05/17/2019
ACTT: 8666.2
Engine TSCAM: 0.0
Engine CSCAM: 0

The following work has been completed at this date and time:

- Complied with engine Continuous Airworthiness Maintenance (CAM) Inspection Program IAW SB 72-0917 and tested engine. Performance and leak checks satisfactory.
- Complied with the following Service Bulletins: 72-0256, 72-0301, 72-0444, 72-0170, 72-0675, 72-0763, 72-0745, 72-0888, 72-0863, 72-0935, 72-0936, 72-0958, 72-0962, 72-0952, 72-2000, 72-2132, 72-2167, A72-2111, A72-2082, 73-0208, 79-0010, 73-0186, 72-0595, 72-0250, 73-0156, 73-0146, 79-0014, 72-0555, 72-0907, 72-0917, 72-0606, A72-0685, 72-2267
- Complied with the following AD's: 2018-13-05, 2002-21-15, 98-04-15, 93-15-11, 84-10-06 R1, 84-01-04
- Installed the following life limited parts:
- Torque Sensor Gear Assy. P/N 3101726-3, S/N P-4699 Series 3
- Third Stage Rotor P/N 868630-9, S/N 0013454427
- Fuel Pump Assy. P/N 897400-S, S/N P-1027C
- Fuel Shutoff P/N 394230-9-1, S/N 10019C
- Prop. Governor P/N 210736, S/N 1757508E

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- Turbine Bearing P/N 3108098-1, S/N 08-06331-05910
- First Stage Rotor P/N 867569-7, S/N 18-156101-01478
- Propeller Pitch Control P/N 70000295-13, S/N P-3625C
- Second Stage Turbine Rotor P/N 868272-1, S/N 7Y-2573
- A complete list of other installed life limited parts, bearings and consumables can be found in Logbook # 2 and on file at this Repair Station under WO #1624.
- Engine shipped less fuel control and anti-icing system.

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was APPROVED for return to service with respect to work performed. Pertinent details of the repair/inspection are on file at this Repair Station # [REDACTED] under Work Order #1624. END.

Name: Greg Thibodeau

FAA CRS#: [REDACTED]

Signed: [REDACTED]

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ENGINE MAINTENANCE & SERVICE RECORD



05-23-2019 Honeywell TPE331-1-151A SN# P-92143 TSO:0.0

N8376K G164B SN# 675B ACTT: 8666.2 Hobbs: 861.2

Engine reinstalled on aircraft IAW Agri Jet procedures. Installed Hartzell propeller HC-B3TN-5M SN# BUA19488 IAW Hartzell manual 139 Rev. 13 June 2015. Run up leak check, none noted. I certify this engine has been inspected IAW an 100hour inspection and found to be airworthy.

Mark Gaerte AP

AUTHORIZED SIGNATURE

06-01-2019 Honeywell TPE331-1-151A SN# P-92143 TSO:27.8

N8376K G164B SN# 675B ACTT: 8694.0 Hobbs: 889.0

SOAP sample taken. Installed new oil filter element # 3001436-1.

Mark Gaerte AP

10-08-2019 Honeywell TPE331-1-151A SN# P-92143 TSO:228.6

N8376K G164B SN# 675B ACTT: 8894.8 Hobbs: 1089.8

SOAP sample taken. Installed new oil filter element # 3001436-1.

Mark Gaerte AP

03-15-2020 Honeywell TPE331-1-151A SN# P-92143 TSO:237.1

N8376K G164B SN# 675B ACTT: 8903.3 Hobbs: 1098.3

Cleaned engine. I certify this engine has been inspected IAW an 100hour inspection and found to be airworthy.

Mark Gaerte AP

07-26-2020 Honeywell TPE331-1-151A SN# P-92143 TSO:378.7

N8376K G164B SN# 675B ACTT: 9044.9 Hobbs: 1239.9

SOAP sample taken. Installed new oil filter element # 3001436-1. Next SOAP due @

Hobbs 1389.9 per A.D. 2018-13-05.

Mark Gaerte AP

GL Great Lakes
Turbines

GL Great Lakes
Turbines

[illegible]