

LEFT ENGINE

PREMIER AIRCRAFT



ENGINE MAINTENANCE RECORDS

Aircraft Registration: N84PM
Engine Position: LEFT
Log Book Number: _____

Records Dated From: 5/26/04 To: _____
Detailing Total Time From: 2103.8 To: _____ Hours

PREMIER AIRCRAFT

1000 NW Perimeter Way, Troutdale, Oregon 97060

Phone 503-661-4184

Fax 503-667-4052

LIMITED WARRANTY - OVERHAULED ENGINE

Six-Month Limited Warranty:

Premier Aircraft warrants this engine to be free from defect in material and workmanship under normal use for a period of six (6) months, for an unlimited number of hours, commencing from the date of installation or 30 days after shipment, whichever is earlier. Premier Aircraft will repair or replace, at its option, any material or workmanship found to be defective within the applicable period set forth above. The repair or replacement of defective parts and workmanship under this warranty will be made by Premier Aircraft without charge to the owner for parts, labor or materials used in the removal, installation and/or actual repair of such defective part or workmanship, except that import duties, sales or use taxes, and freight shall be the responsibility of the purchaser.

The obligations of Premier Aircraft under this warranty is limited to the repair or replacement of defective materials and workmanship for the time period set forth herein. Aftermarket projects, which require a Supplemental Type Certificate (STC) for installation, which may be installed or reinstalled at the customer's request, are not covered by this or any other warranty, express or implied, and all damages and losses arising out of such products are the sole responsibility of the purchaser, including any damage to the engine, aircraft, STC product, persons or property.

Extended Limited Warranty:

Premier Aircraft additionally warrants the engine power section, consisting of crankcase and crankshaft assembly, camshaft, and the cylinder stud assemblies, excluding any and all accessories, on a prorated basis from the expiration of the six (6) months warranty set forth above to the manufacturer's recommended time between overhauls (TBO) of the engine. The proration for this extended limited warranty shall be based upon a usage of 40 hours per month, or actual use, whichever is greater. This extended limited warranty does not include labor charges for removal, installation or repair, or charges for additional materials, import duties, sales or use taxes, and freight, all of which shall be the responsibility of the purchaser. Charges for parts under this extended limited warranty shall be made at the manufacturer's list price in effect at the time the repair is made, and shall be prorated as set forth herein. All other charges for repairs under this extended limited warranty shall be made at the list price in effect at the time of the repair, and shall be prorated as set forth herein.

Six-Month and Extended Warranty Limitations:

Warranty service under the limited warranty and extended limited warranty may be accomplished at facilities other than Premier Aircraft but only after prior written approval from Premier Aircraft provided that all work shall be performed at prevailing rates and that Premier Aircraft shall have the option to furnish all parts, materials and accessories.

This limited warranty and extended limited warranty (Warranty) shall be void if the engine or its accessories have been, in the judgment of Premier Aircraft, altered or repaired outside the Premier Aircraft facility without prior written approval, or have been operated contrary to the manufacturer's operating instructions, or subjected to misuse, neglect, accident or use of any fuel not approved by the engine manufacturer after installation or shipment by Premier Aircraft. In such event, Premier Aircraft shall be relieved of any and all liability and purchaser shall be solely responsible for any and all claims, whether arising out of damages caused by such wrongful use or not.

THE WARRANTY PROVIDED HEREIN SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION EXPRESSLY SET FORTH IN THIS DOCUMENT.

Any implied warranty not disclaimable hereunder shall extend for 30 consecutive days after installation or shipment by Premier Aircraft. Some states do not allow limitations on the length of time an implied warranty is valid, so the above limitation may not apply to you.

Premier Aircraft's liability under this limited Warranty and extended limited warranty is expressly limited to repair or replacement, at the option of Premier Aircraft of any defective material or workmanship and shall not extend to the payment of any damages. In the event of a breach of this Warranty by Premier Aircraft, the purchaser shall not be entitled to damages for loss of use, lost profits, or other incidental or consequential damages. Premier Aircraft shall not be held liable for loss of, or damage to the customer's aircraft caused by breach of Premier Aircraft.

Purchaser's remedies under this warranty are expressly conditioned upon receipt of written notice, sent by the purchaser, specifying the breach or defect complained of within seven (7) days after such breach or defect is discovered, or reasonably should be discovered to Premier Aircraft at the address set forth below, and upon customer's delivery of its aircraft, or any necessary accessory thereto or part thereof to Premier Aircraft for correction of such breach within 30 days after the receipt of such written notice. The written notice shall be addressed to: Premier Aircraft, 1000 NW Perimeter Way, Troutdale, Oregon 97060.

Warranty repair or replacement of any part, or performance of any service shall not extend this warranty beyond the original warranty time or hour limitation.

THE SOLE AND EXCLUSIVE REMEDY OF PURCHASER AND ANY OTHER PERSON, AGAINST PREMIER AIRCRAFT SHALL BE FOR THE REPAIR OR REPLACEMENT, AT PREMIER AIRCRAFT'S OPTION, OF DEFECTIVE MATERIALS AND WORKMANSHIP AS PROVIDED HEREIN. NO OTHER REMEDY, DIRECT OR INDIRECT, INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOST PROFITS, LOST SALES, INJURIES TO PERSONS OR PROPERTY, LIABILITY IN TORT OR ANY OTHER DAMAGES SHALL BE AVAILABLE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the previous limitation or exclusion may not apply to you.

The sole purpose of this limited warranty is to provide the customer with the remedy of repair or replacement, at Premier Aircraft's option, of defective parts or materials in the manner provided herein. This limited warranty shall not fail of its essential purpose so long as Premier Aircraft or its successor or designee is willing and able to repair or replace defective parts, materials or workmanship in the described manner.

Should this warranty fail of its essential purpose, the customer shall not be entitled, directly or indirectly, to incidental or consequential damages.

Any action arising out of this warranty, or any purported defect in material or workmanship shall be brought in the Circuit or District Court for the State of Oregon in Multnomah County, and the internal laws of Oregon shall govern.

PREMIER AIRCRAFT

ENGINE MAINTENANCE RECORDS

Engine Manufacturer: Lycoming

Model: T10-540-V2AD

Serial No: L-8563-61A

Recommended TBO: 2000 Hours 12 Years

Aircraft Registration No: N84PM

Date Installed on Aircraft: _____

If used on multi-engine aircraft: Left Right Front Rear

Premier Aircraft, 1000 NW Perimeter Way, Troutdale, Oregon 97060
Phone: (503) 661-4184 Fax: (503) 667-4052

T.T.E. 2103^B@ 55³ H.660 #3
 TSMO -0-@ 55³ H.660 #3

Premier Aircraft, 1000 NW Perimeter Way, Troutdale, OR 97060-9524 503-661-4184
 Manufacturer Lycoming Total Time 2103.8 Date 05/26/2004
 Model Number TIO-540-V2AD TSMO 0.0 WO Number 08557
 Serial Number L-8563-61A

This engine, excluding the fuel injection system, starter, magneto, wastegate, controller and exhaust system was overhauled in accordance with Lycoming Manual 60294-7 and Table of Limits SSP 1776. See following list of parts installed. The magneto was visually inspected only for damage - no defects noted. Nothing was done to the harness. The exhaust system was visually inspected only - no defects noted. Installed the exhaust system, excluding the tailpipe, with new gaskets and nuts. Reinstalled the exhaust support cable and adjusted per Lycoming Service Kit SSP-784, Revision 1. Installed new spark plugs. Engine was run on a test stand.

Accessories

Description	Model Number	Part Number	Serial Number	Condition
Magneto	D6LN-3200	10-382610-13	C060006	No maintenance at this time.
Servo	RSA-10DB2	2524896-4	85081	No maintenance at this time.
Fuel pump	-	RG9080-17A/M	E1670	No maintenance at this time.
Manifold valve	-	LW18782	0214710	No maintenance at this time.
Governor	-	V-1	A29J	0.0 hours since overhaul.
Turbocharger	-	465680-9005	CJN00012	0.0 hours since overhaul.
Wastegate	-	470954-9005	DD08137	Wastegate was repaired and tested.
Controller	-	LW18518	BJN36698	Controller was repaired and tested.
Starter	-	MHB4016	A050866	No maintenance at this time.

Service Information

Service Bulletin	Subject	Compliance
SI1267C	Piston pin plugs	Installed new 72198 aluminum bronze piston pin plugs.
SB240R	Replacement parts	Parts were replaced in accordance with Lycoming's recommendations.
SB342D	Fuel injection lines	Inspected the lines and correctly clamped.
SB439A	Connecting rods	Inspected the connecting rods.
SB475B	Crank & gear	Inspected the crankshaft. Installed a new dowel pin. Installed a new gear with a new bolt. Torqued bolt to 204 inch pounds and saftied.
SB501B	Piston pins	N/A by date of piston pin purchase.
SB518C	Thermostatic by-pass	N/A by serial number.
No further inspection is required by this bulletin.		
SB524	Oil pump gears	Installed a new 05K19423S oil pump gear kit.
SB527C	Piston pins	N/A by piston pin code number.

Airworthiness Directives

Engine

AD Note	Amend #	Dated	R	Subject	Compliance
84-19-03	39-4921	09/20/1984	N	Cylinder failure	N/A by cylinder part number.
91-14-22	39-6916	08/19/1991	Y	Crank & gear	Inspected the crankshaft. Installed a new dowel pin. Installed a new gear with a new bolt. Torqued bolt to 660 inch pounds and saftied. Work was done in accordance with SB 475A. Inspection is required at every engine overhaul, after a propstrike, sudden stoppage or whenever gear train repair is required.
92-12-05	39-8265	07/10/1992	N	Piston pin	N/A by piston pin part number.
97-15-11	39-10085	08/12/1997	N	Piston pins	N/A by piston pin part number.
2002-12-07	39-12779	07/03/2002	Y	Oil filter adapter gasket	Installed a new 06B23072 gasket in accordance with SB 543A, Supplement 1 and SI 1453. Marked the plate 543. AD Note requires no further inspection.
2002-19-03	39-12883	09/20/2002	N	Crankshaft	N/A by engine and crankshaft serial number.
2004-05-24	39-13519	03/30/2004	N	STD-2209 Bolt	N/A by the crankshaft gear bolt part number.

Fuel Injection

73-10-02	39-1634	05/16/1973	Y	Defective diaphragm	N/A by overhaul date. AD Note requires no further inspection.
75-09-15	39-2187	04/30/1975	N	Flow divider gasket	N/A by flow divider parts list number.
78-23-10	39-3333	11/07/1978	N	In flight power loss	N/A by parts list number.
79-04-05	39-3570	09/26/1979	N	In flight power loss	N/A by parts list number.
79-21-08	39-3593	10/24/1979	N	Fuel flow cutoff	N/A by parts list number.
83-22-04	39-4748	11/04/1983	N	Diaphragm failure	N/A by parts list number.

Continued on the next page.

Continued from the previous page.

Airworthiness Directives

Fuel Injection

AD Note	Amend #	Dated	R	Subject	Compliance
2002-26-01	39-12986	01/31/2003	Y	Fuel injection lines	Inspected the lines and correctly clamped in accordance with SB342D.

Inspection is required at every 100-hour, every annual, every overhaul and any time any part is loosened or removed for any reason.

Fuel Pump

91-08-07	39-6962	05/06/1991	N	Pump vent port fitting	The letter R is stamped in the fitting.
2003-14-03	39-13222	08/14/2003	Y	Fuel pump	N/A. The pump has a /M suffix.

No further action is required by this AD.

Magneto

81-12-06	39-4249	11/12/1981	Y	Distributor gear	N/A by engine model.
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AD Note requires no further inspection.

The article identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service in respect to the work that was accomplished. Pertinent details of the repair are on file at this Repair Station under Work Order Number 08557.

Date: 05/26/2004 Signed James J. J. J. Inspector for Premier Aircraft RS JZYR537L.

List of Parts Installed for Work Order No.: 08557

Qty	Part Number	Description	Qty	Part Number	Description
2.0	05K21260	Cylinder Kit	4.0	LW13262	Valve Intake
1.0	06B23072	Rubber Gasket	2.0	LW13641	Rubber Magneto Drive Bushing
1.0	13S19649	Crankshaft Gear	1.0	LW13908-OH	Overhauled Camshaft S/N: S136959-2
12.0	15B21319	Pushrod Socket			
1.0	15F19957-67	Pushrod	6.0	LW13923	Rod Bushing
4.0	17C19386	Exhaust Valve Cap	4.0	LW14078	Piston Pin
8.0	17C21191	Exhaust Valve Keeper	8.0	LW14820	Snap Ring
2.0	18A19399	Front Main Bearing	6.0	LW14830	Main Bearing
24.0	383B	Nut	6.0	LW14995	Pushrod Retainer
1.0	61297	Oil Pump Impeller	12.0	LW16143	Rod Bearing
1.0	61298	Oil Pump Impeller	2.0	LW18481	Gasket
4.0	62388	Intake Valve Cap	4.0	LW18497	Exhaust Valve
1.0	71623	Washer	1.0	LW18526	Gasket
8.0	71907	Counterweight Plate	6.0	LW18737	Hose
8.0	72050	Valve Keeper	1.0	LW18786	Gasket Set
8.0	72198	Aluminum Bronze Piston Pin Plug	1.0	LW31-1.16	Bolt
12.0	72877	Lifter Body	15.0	MS21044N3	Nut
1.0	73644-OH	Overhauled Counterweight S/N: S137700-7	3.0	MS24665-132	Cotter Pin
1.0	73644-OH	Overhauled Counterweight S/N: S138100-3	4.0	MS29512-06	O Ring
2.0	73648	Counterweight Pin	3.0	MS29512-10	O Ring
6.0	73772	Oil Squirt Nozzle	12.0	RHB36S	Spark Plug
12.0	74389	Rocker Bushing	6.0	ST203	Ring Set
2.0	76788	Counterweight Pin	6.0	STD1410	Nut
4.0	77450-USED	Connecting Rod	14.0	STD1411	Nut
1.0	77808	Adjustable Oil Pressure Relief	1.0	STD1737	Snap Ring
12.0	78290	Hydraulic Lifter	4.0	STD1901	Stud
1.0	AN8-14A	Bolt	24.0	STD2044	Nut
1.0	AN900-9	Crush Washer	1.0	STD2078P02	Dowel
1.0	CH48103	Oil Filter	28.0	STD2090	Nut
4.0	LW10545S	Piston	6.0	STD2180	Drain Tube Hose
1.0	LW11665	Thrust Button	6.0	STD2249	Nut
8.0	LW11796	Valve Spring	4.0	STD68	Cotter Pin
8.0	LW11797	Valve Spring	1.0	STD95	Woodruff Key
12.0	LW12186	Rod Nut	1.0	TIO-540-CASE	New Crankcase S/N: K0513
12.0	LW12596	Rod Bolt	1.0	TIO540CRANK	Crankshaft S/N: V12290

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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Premier Aircraft, 1000 NW Perimeter Way, Troutdale, OR 97060-9524 503-661-4184

Manufacturer Lycoming Total Time 2103.8 Date 05/26/2004
 Model Number TIO-540-V2AD TSMO 0.0 WO Number 08557
 Serial Number L-8563-61A

Completed steps 1, 2, 3, 4, 5, 7 and 8 only of the installation of GAMI Injectors in accordance with STC SE09445SC. Steps 6, 9 and 10 still require completion.

The article identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service in respect to the work that was accomplished. Pertinent details of the repair are on file at this Repair Station under Work Order Number 08557.

Date: 05/26/2004 Signed *[Signature]* Inspector for Premier Aircraft RS JZYR537L.

June 22, 2004 **Mather Aviation LLC**
 NS4PM, Lycoming TIO-540-V2AD Sacramento Mather Airport, CA 95655
 S/N: L-8563-61A 55.3 FAA CRS No. PCPR439B
 Hour Meter: ~~535.1~~ ETT: 2103.8 ETSO: 0.0 WO#: 408259

This is a permanent part of the L/H Engine Records. Pertinent details of the work performed are on file at this Repair Station. The following inspections, repairs or component part replacements were accomplished:

1. Removed and reinstalled overhauled engine by CRS# JZYR537L. Ground run and flight test satisfactory.
2. Serviced engine with 12 quarts Aeroshell W100 and 6 ounces LW-16702 oil additive. Ground run leak check satisfactory.
3. Continued installing GAMI fuel injector nozzles completing installation in accordance with STC Number SE09445SC. Filed Form 337 dated 6/24/2004.
4. Air purged oil pressure lines from engine to oil pressure gauge.
5. Secured and protected all wiring as required.
6. Replaced drain hoses as required.
7. Repaired air/oil separator screw hole threads.
8. Replaced Brackett air filter air-box cam-lock bracket.
9. Fabricated and installed 1 ea. R/H lower baffle support rod.
10. Replaced hardware as required.

The aircraft and/or component identified above has been repaired and inspected in accordance with Federal Aviation Regulations and is approved for return to service with respect to the work performed.

Technician(s): T. Mula, A. Sarlis, G. Shlimmer, M. Rotar

Inspector: *[Signature]*
 Kerry D. Glavich
 CRS# PCPR439B

FLIGHTCRAFT
a PAPE GROUP company

FAA CRS FCP2831D
 90454 Boeing Dr.
 Eugene, OR 97402

LE

DATE 7/21/2004 HM 63.7 TOTAL TIME --- SMOH --- N# 84PM

Changed oil and filter. Installed new CH48103 filter. Inspected old filter - no unusual debris noted. Serviced with 12 quarts Aeroshell 100W and 6 oz of Lycoming engine oil additive. Ground ran engine, ops checked good - no leaks noted. Repaired cracked baffle at top of cylinder #2.

This certifies that only the work requested by the customer and described on listed work order was accomplished and inspected in accordance with manufacture's specifications and current Federal Aviation Administration regulations and is approved for return to service with respect to the work performed. W.O.# 338043 SIGNATURE *[Signature]* INSPECTOR.

FLIGHTCRAFT INC./EUGENE RS# FCP2831D

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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FLIGHTCRAFT
a P&H GROUP company

FAA CRS FCP2831D
90454 Boeing Dr.
Eugene, OR 97402

DATE 1/3/2005 HM 75.3 TOTAL TIME 2123.8 SMOH 20.2 N# 84PM

Complied with Annual inspection. Compression results: #1=74/80 #2=76/80 #3=76/80 #4=74/80 #5=78/80 #6=76/80. Changed oil and filter, inspected old filter - no metal noted, installed new CH48109 filter and serviced with 12 quarts Aeroshell W80 oil. Complied with A.D. 2002-26-01 by inspection of fuel injector lines - no defects noted. Adjusted variable absolute pressure controller to obtain correct rate. Ground ran engine, ops checked good - no leaks noted.

I CERTIFY THAT THIS LEFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION, AS PER PART 43 APPENDIX D, AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION, APPLICABLE A.D. NOTES AS RECORDED COMPLIED WITH DETAILS ON W/O # 338123 SIGNATURE Rth Dolo, INSPECTOR, FLIGHTCRAFT, INC / EUGENE FCP2831D

2 Mar 06 HM: 160.5 SMOH: 105.4 TT: 2109.0 Changed oil - Aeroshell W80, cut and inspected old filter, added 6 oz LW-16702 oil additive, sampled oil for analysis, serviced plugs, checked timing, pressure tested exhaust system, cleaned fuel screen, replaced air filter element, installed VAPC and waste gate following repair and recalibration by Main Turbo, reinstalled governor following F/T by American Propeller, rigged controls and adjusted as required, repaired intake leak at manifold relief valve, run up normal.

*1 78/80 *2 76/80 *3 76/80 *4 78/80 *5 78/80 *6 78/80

C/W 2002-26-01 *39-12986 by insp. fuel lines per MSB 342D-ok Due next 160 HM

AD 2004-10-14 *39-13644 crank gear bolt Due following prop strike

AD 2005-12-06 *39-14112 impulse coupling Due at 500 SMOH

AD 2005-19-11 *39-14276 crankshaft failure N/A

AD 2005-26-10 *39-14431 ECI cylinders N/A

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION.

Richard A. Marshall

A&P 2230591 1A

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
1 May 07	2288.9	185.3	240.4	Changes oil - Aeroshell W100, cut and inspected old filter, cleaned suction screen, added 6oz LW-16702 oil additive, serviced plugs, checked timing, R&R air filter element, installed WX and VAPC following bench test/recalibration by Main Kevlar, checked controls, all accessories, engine mount, exhaust system, run-up normal. *1 78/80 *2 78/80 *3 78/80 *4 78/80 *5 75/80 *6 78/80 C/W 2002-26-01 *39-14986 by insp fuel lines per MSB 645-ok Due next 346HM AD 2006-20-09 *39-14778 crankshaft failure N/A per MSB 569A. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH AN <u>ANNUAL</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN A <u>RIGHT</u> WORTHY CONDITION. <i>Richard A. Marshall</i> A+P 2230521 1A



LEFT

Date: 02/15/08 Hobbs: 268.5 Right Engine

At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new AA48103 oil filter. Serviced engine with 10qts of Aeroshell Oil W 100 oil and 6oz. of LW-16702 oil additive. Run-up and leak check ok. Ok for return to service.

Matthew O. Heal 349703614 A&P

Matthew O. Heal

*****MUNCIE AVIATION CO. CRS#AJVR135C*****

	DATE	A/C Hobbs	A/C TT	LT TSOH	RT TSOH	LT Prop	RT Prop
N65GS	6/2/2008	286.4	2721.4	231.1	352.7	454.7	454.7

Annual Inspection Completed This Date ref Piper Inspection Report #230-1088
Did not Change oil, Compressions #1 74/80 #2 76/80 #3 78/80 #4 76/80 #5 78/80 #6 74/80
C/W AD2002-26-01 Ref LSB342E Fuel injector line inspection all check Ok
Installed missing cowling seals upper middle section, repaired section of lower cowling
fastener area with fiberglass, Repositioned top engine mounts they were installed
backwards torqued to 42 ft/lbs, replaced fuel sump drain hoses as needed
Installed new Bracket Air filter,
See AD Listing Dated 6/2/2008 for Details
Ground check and run-up ok



I certify that this Lt Engine has been insp. in accordance with a Annual Insp. and was determined to be in airworthy condition.

Repair Station No. AJVR135C

Make Lycoming Ser. No. L-8563-61A

Model TIO-540-V2AD Reg. Number N65GS

The aircraft/component identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency, approved for return to service
Pertinent details of the repair are on file at the Agency

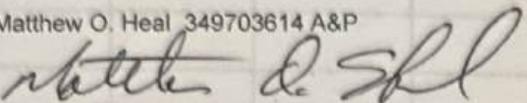
Work Order No. 19430 Date 6/2/2008

Signed *[Signature]* Inspector for

MUNCIE AVIATION CO. CRS#AJVR135C

MUNCIE, IN 47308 765-289-7141



Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
				<p>Date: 10/17/08 Hobbs: 301.7 Left Engine</p> <p>At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new AA48103 oil filter. Serviced engine with 10qts of Aeroshell Oil W 100 oil and 6oz. of LW-16702 oil additive. Run-up and leak check ok. Ok for return to service.</p> <p>Matthew O. Heal 349703614 A&P</p> 
				<div style="text-align: center;">  </div> <p>DATE: 11/26/2008 MAKE / MODEL: Piper PA31P-350 HM: 308.0</p> <p style="text-align: right;">AIRCRAFT REG: N65GS AIRCRAFT S/N: 31P-8414016 AIRCRAFT TT: ???</p> <p style="text-align: center;"><u>LEFT ENGINE LOG ENTRY</u></p> <p>Removed, cleaned, flow checked, resealed, reinstalled and leak checked all fuel injection nozzles. Ground ran and checked engine operation.</p> <p>Signature:  Ronald A. Schmidt, AP14749761A Schmidt Aviation, Inc. 1020 NW 62nd Street, Hangar #6, Ft. Lauderdale, FL 33309 (954) 772-0772 Fax (954) 938-5173 SCHMIDTAV@aol.com</p>

MAINTENANCE RELEASE

UNIT NAME Magneto SERIAL NO. C060006G

PART NO. D6LN-3200 (10-682610-13) MFG.: TCM

OVERHAUL REPAIRED TESTED INSPECTED FUNCTIONAL TESTED

The Aircraft component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of the repair are on file at this repair station under work order # 9184.

OWNER: Central Illinois Air DATE: 4-8-09 SIGNED FOR: Robert C. Beja

R L B ACCESSORY SERVICE

971 Babbitt Avenue • Addison, Illinois 60101-1221
FAA Approved repair station # KB2R946K

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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N65GS	PIPER	MODEL	SERIAL	TOTAL	SMOH
07/12/2010		PA31P-350	31P-8414016	2855.1	
HOBBS					
420.1	Left Engine	TIO-540-V2AD	L-8563-61A	2468.6	364.8

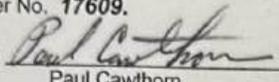
Performed an Annual Inspection in accordance with Piper PA31P-350 Maintenance Manual PN 761-781 dated 04/30/1986 Event 1 and 2 inspection check lists Chapters 5-21-07 and 5-21-08

ENGINE COMPRESSION CHECK

No 1	No 2	No 3	No 4	No 5	No 6
78	78	76	78	78	78
80	80	80	80	80	80

1. Changed oil with Aeroshell 100W Plus 11 Quarts, CH48103-1 oil filter.
2. Took Aviation Lab oil sample.
3. Removed and replaced Brackett air filter element PN BA3305 left and right engine air filters.
4. Removed the engine baffle and found to be cracked in multiple places. Fabricated a new engine baffle and installed on the left engine.
5. Complied with AD 2008-14-07 Amendment 39-15602 dated 08/14/2008 per paragraph (k) Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, fuel injector fuel lines and clamps meet all conditions specified in Lycoming Engines MSB No. 342E, dated May 18, 2004.

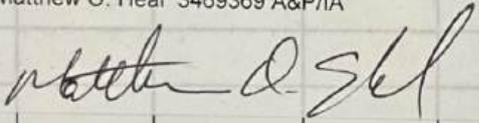
I certify that this **Left Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. **17609**.

Date Signed 07/12/2010: 
 Paul Cawthorn 
 Des Moines Flying Service, Inc., FAA CRS G9CR485J

Date: 3/28/11 Hobbs: 453.6 Left Engine

At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new CH48103-1oil filter. Serviced engine with 10qts of Aeroshell 100W Plus oil. Run-up and leak check ok. Ok for return to service.

Matthew O. Heal 3469369 A&P/IA



Date	Total Time In	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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DES MOINES
FLYING SERVICE

INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com

07/11/2011 N65GS PIPER PA31P-350 SN 31P-8414016
HOBBS: 463.8 TOTAL: 2898.1

L ENGINE	MAKE	MODEL	SERIAL No	TOTAL	SMOH
	LYCOMING	TIO-540-V2AD	L-8563-61A	2512.3	408.5

Performed an Annual inspection in accordance with Piper PA31P-350 Maintenance Manual PN 761-781 dated 04/30/1986 Event 1 and 2 inspection check lists Chapters 5-21-07 and 5-21-08

ENGINE COMPRESSION CHECK

No 1	No 2	No 3	No 4	No 5	No 6
<u>76</u>	<u>76</u>	<u>78</u>	<u>77</u>	<u>78</u>	<u>76</u>
80	80	80	80	80	80

1. Changed oil with Aeroshell 100 W, changed oil filter, inspected old element for contamination, none found at this time. Oil sample was taken.
2. Complied with AD 2008-14-07 Amendment 39-15602 dated 08/14/2008 per paragraph (k) Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, fuel injector fuel lines and clamps
3. Installed new Bracket induction air filters PN BA3305 left and right engines, next time change 7-2012.

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. **17895**.

Date Signed 07/11/2011:

Paul Cawthorn
Paul Cawthorn



Des Moines Flying Service, Inc., FAA CRS G9CR485J

Date: 9/19/11 Hobbs: 503.2 Left Engine

At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new CH48103-1oil filter. Serviced engine with 11qts of Aeroshell 100W Plus oil. Run-up and leak check ok. OK for return to service.

Matthew O. Heal 3469369 A&P/IA

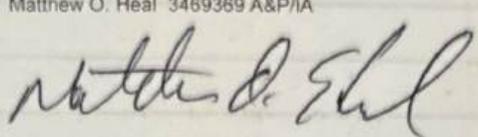
Matthew O. Heal

Date: 1/22/12 Hobbs: 533.2 Left Engine

At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new CH48103-1oil filter. Serviced engine with 10qts of Aeroshell Oil 100W oil. Run-up and leak check ok. OK for return to service.

Matthew O. Heal 3469369 A&P/IA

Matthew O. Heal

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
				<p>Date: 3/20/12 Hobbs: 570.6 Left Engine</p> <p>At this time drained engine oil. Removed inspected oil filter, no trouble found. Installed new AA48103-2 oil filter. Serviced engine with 11qts of Aeroshell Oil 100W oil. Run-up and leak check ok. OK for return to service.</p> <p>Matthew O. Heal 3469369 A&P/IA</p> 



DES MOINES
FLYING SERVICE

INTERNATIONAL AIRPORT
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TELEPHONE (515) 256-5300 - FAX (515) 256-5537
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08/28/2012 N65GS PIPER PA31P-350 SN 31P-8414016
HOBBS: 649.6 TOTAL: 3083.9

L ENGINE	MAKE	MODEL	SERIAL №	TOTAL	SMOH
	LYCOMING	TIO-540-V2AD	L-8563-61A	2698.1	594.3

Performed an Annual inspection in accordance with Piper PA31P-350 Maintenance Manual PN 761-781 dated 04/30/1986 Event 1 and 2 inspection check lists Chapters 5-21-07 and 5-21-08

ENGINE COMPRESSION CHECK

№ 1	№ 2	№ 3	№ 4	№ 5	№ 6
78	72	72	58	74	74
80	80	80	80	80	80

- Due to low compression the № 4 cylinder was replaced with a new Lycoming cylinder. (Kit № 05K21260)
- Changed oil with Aeroshell 100 W, changed oil filter, inspected old element for contamination, none found at this time. Oil sample was taken.
- Complied with AD 2011-26-04 Amendment 39-16894 dated 01/12/2012 per paragraph (h) Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, fuel injector fuel lines and clamps meet all conditions specified in Lycoming Engines MSB No. 342F, dated June 04, 2010.
- Complied with Bracket Instructions for Continued Airworthiness by installation of a new Bracket induction air filters PN BA3305 left and right engines, next time change 08/2013.
- Complied with Piper SB 644E dated 05/09/2012 Turbocharger Exhaust Coupling Inspection / Replacement, Inspected and found PN 557-369 [NH1005798-10] turbocharger exhaust clamps installed. Inspected per part III of SB instructions and found to be serviceable. Continue with routine inspection per PA31P-350 Maintenance Manual instructions. Replace on condition. (No life limit)
- Complied with 400 hour valve train inspection per note 10 of PA31P-350 Inspection report. No defects noted at this time.
- Removed and replaced cylinder 2 bottom spark plug with new Champion RHB36S plug
- Upon closer inspection determined exhaust pipe corroded through developing a hole. Removed exhaust pipe and sent to Dawley for repair.
- Oil radiators/oil coolers removed and flushed with cleaning solvent and new engine oil Aero Shell 100W50. Reinstalled radiator and leaked checked after engine run.
- Fabricated and repaired left engine baffles as required.

I certify that this *Engine* has been inspected in accordance with an *Annual Inspection* and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. 18209.

Date Signed 08/28/2012

Eugene Koll



Des Moines Flying Service, Inc., FAA CRS G9CR485J



DES MOINES
FLYING SERVICE

INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com

09/01/2013 N65GS PIPER PA31P-350 SN 31P-8414016
HOBBS: 798.1 TOTAL: 3232.0

L ENGINE MAKE MODEL SERIAL No TOTAL SMOH
LYCOMING TIO-540-V2AD L-8563-61A 2846.6 742.8

Performed an Annual inspection in accordance with Piper PA31P-350 Maintenance Manual PN 761-781 dated 04/30/1986 Event 1 and 2 inspection check lists Chapters 5-21-07 and 5-21-08

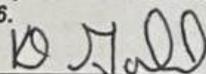
ENGINE COMPRESSION CHECK

No 1	No 2	No 3	No 4	No 5	No 6
<u>77</u>	<u>78</u>	<u>78</u>	<u>79</u>	<u>77</u>	<u>75</u>
80	80	80	80	80	80

1. Changed oil with Aeroshell 100 W, changed oil filter, inspected old element for contamination, none found at this time. Oil sample was taken.
2. Complied with AD 2011-26-04 Amendment 39-16894 dated 01/12/2012 per paragraph (h) Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, fuel injector fuel lines and clamps meet all conditions specified in Lycoming Engines MSB No. 342F, dated June 04, 2010.
3. Complied with Bracket Instructions for Continued Airworthiness by installation of a new Bracket induction air filters PN BA3305 left and right engines, next time change 08/2013.
4. Complied with TCM Instructions for Continued Airworthiness, Left engine magneto 4 year in service replacement by installation of Bendix overhauled Magnetos PN 10-682910-13 SN G09LA028R and two new capacitors PN AB-38268. Set timing to 20 degrees BTDC. All work was performed IAW Piper MM section 74-11-02.
5. Complied with TCM Ignition System Instructions for Continued Airworthiness, Inspected ignition system per TCM SB 634B no discrepancies noted at this time.
6. Cleaned left engine Gami fuel injectors and reinstalled with new O-rings and seals. All work performed IAW General Aviation Modifications instructions No. IP-98-002.
7. Replaced 2 spark plugs for No. 5 cylinder PN RHB36S
8. Replaced leaking rocker cover gaskets on cylinders 3, 5 and 6 left engine, PN 76036. Leak checks satisfactory
9. Replaced left engine exhaust shield clamp PN LW 15592-8-28
10. Replaced left engine cylinder No. 3 exhaust nut P/N STD 2044
11. Removed left engine turbo bracket bushing and cleaned corrosion from bushing, reinstalled bushing.

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. **18576**.

Date Signed 09/01/2013:


Kurt Gabriel



Des Moines Flying Service, Inc., FAA CRS G9CR485J

MAKE: Piper **MODEL:** PA31P **S/N:** LIV413 **REG NO.** 65GS **DATE:** 3/24/2014
ENGINE TT: 2880.5 **SMOH:** 776.7 **WORK ORDER #** 1340

At this time performed the following:

(1) Run up Engines to operating temperature. Removed cowlings, drained oil and removed filter. Inspected Filter and no trouble found at this time. Installed new CH48103-1 Oil Filter and serviced engine with 12 quarts of 100W plus. Run up and operational check performed. Engine cowling re-installed (Left Engine)

Date signed 3/24/2014:



Dominique J. Youakim 3021289 IA

Maintenance Release: I certify that the aircraft listed above has been inspected in accordance with an annual inspection and been determined to be in airworthy condition. Pertinent details of the work performed are under the work order listed above. Central Illinois Air Corporation, 480 Airport Road, Mattoon, IL 61938

d including the signature
of the person/facility
he work.

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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DES MOINES
FLYING SERVICE

INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com

10/07/2014 N65GS PIPER PA31P-350 SN 31P-8414016
HOBBS: 861.8 TOTAL: 3295.7

L ENGINE	MAKE LYCOMING	MODEL TIO-540-V2AD	SERIAL No L-8563-61A	TOTAL 2910.3	SMOH 806.5
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Performed an Annual inspection in accordance with Piper PA31P-350 Maintenance Manual PN 761-781 dated 04/30/1986 Event 1 and 2 inspection check lists Chapters 5-21-07 and 5-21-08

ENGINE COMPRESSION CHECK

No 1	No 2	No 3	No 4	No 5	No 6
78	75	78	78	78	74
80	80	80	80	80	80

1. Changed oil with Aeroshell 100 W, changed oil filter, inspected old element for contamination, none found at this time. Oil sample was taken.
2. Complied with AD 2011-26-04 Amendment 39-16894 dated 01/12/2012 per paragraph (h) Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, fuel injector fuel lines and clamps meet all conditions specified in Lycoming Engines MSB No. 342F, dated June 04, 2010.
3. Complied with Bracket Instructions for Continued Airworthiness by installation of a new Bracket induction air filters PN BA3305 left and right engines, next time change 08/2013.
4. Complied with TCM Ignition System Instructions for Continued Airworthiness, Inspected ignition system per TCM SB 634B no discrepancies noted at this time.
5. Installed repaired exhaust stack. Leak check good at this time.



DES MOINES
FLYING SERVICE

INTERNATIONAL AIRPORT
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TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com

10/07/2014 N65GS PIPER PA31P-350 SN 31P-8414016
HOBBS: 861.8 TOTAL: 3295.7

6. Torqued rocker cover gaskets. Leak check good at this time.
7. Replaced 2 spark plugs for No. 3 cylinder PN RHB36S
8. Tightened left engine oil transfer tube clamps.
9. Torqued loose left engine turbo exhaust clamp to 40 in/lbs.
10. Replaced L/H engine oil cooler duct P/N 01437-02.

I certify that this *Engine* has been inspected in accordance with an *Annual Inspection* and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. **19002**.

Date Signed 10/07/2014:

Jeff Seals
Jeff Seals



Des Moines Flying Service, Inc., FAA CRS G9CR485J

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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LEFT ENGINE

October 27, 2015
 N65GS
 Hobbs 890.5

TIO-540-V2AD
 T.T. 2939.0

S/N L-8563-61A
 T.S.O/H 835.2

Complied with Annual Inspection of engine this date in accordance with Piper Mojave Inspection Report P/N 230-1088 issued December 9, 1994. Changed oil and oil filter. Serviced with W100 Aeroshell. Compression check #1 74/80, #2 72/80, #3 74/80, #4 76/80, #5 76/80, #6 74/80. Complied with AD 15-19-07 "External Fuel Injection Lines" by inspection, no defects noted. Installed 1 new RHB36S-26 Spark Plug. Run, leak and operational check satisfactory. See separate file for AD note listing and compliance.

I certify that this engine has been inspected in accordance with an Annual inspection and has been approved for return to service.

Date October 27, 2015 Work Order 15-5825

Michael J. Gutz
 Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHRR100C



LEFT ENGINE

February 18, 2016
 N65GS
 Hobbs 913.3

TIO-540-V2AD
 T.T. 2961.8

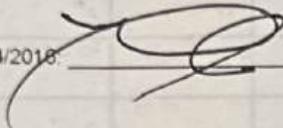
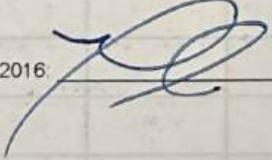
S/N L-8563-61A
 T.S.O/H 858.0

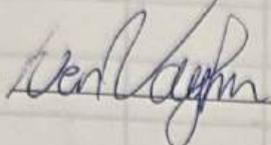
Changed oil and oil filter this date. Checked filter for debris, none noted. Serviced with W100 Aeroshell. Installed new cylinder #1 CHT Probe P/N 2852 S/N 82535. Cleaned sparks plugs on this engine. Engine run and leak check satisfactory.

The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service

Date 02-18-2016 Work Order 16-5924

Phillip A. Hulse
 Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHRR100C

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
MAKE: Piper MODEL: PA31-350P S/N: 31P-8414016 REG NO. 65GS DATE: 6/24/2016 HOBBS: 934.2 WORK ORDER # 1485				
At this time performed the following:				
<ol style="list-style-type: none"> 1. Removed Ignition Harness on Left Engine, Due to #2 Cylinder lead failing high tension lead test 2. Found that High tension cap was cracked on left side of magneto. 3. Installed Overhauled Magneto P/N10-682910-13R, Serial #D-03032 4. Installed new10-821625-4R Harness Assembly 				
Run Up and Operational Check Performed				
Date signed: 6/24/2016:  Dominique J. Youakim 3021289 A&P/IA				
Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.				
MAKE: Piper MODEL: PA31-350P S/N: 31P-8414016 REG NO. 65GS DATE: 7/18/2016 HOBBS: 951.5 WORK ORDER # 1506				
At this time performed the following:				
<ol style="list-style-type: none"> 1. Drained oil, removed filter and oil screen 2. No Trouble found at this time 3. Installed new AA48103-2 Oil Filter 4. Serviced Engine with 10 quarts of Aeroshell 100 Plus 				
Run Up and Operational Check Performed				
Date signed: 7/18/2016:  Dominique J. Youakim 3021289 A&P/IA				
Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.				

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
MAKE: PIPER MODEL: PA-31P-350 REG NO. 65GS DATE: 09/30/2016 TACH: 990.3 WORK ORDER # 1535				
At this time performed the following: 1. Removed dual magneto on left engine and replaced bad contact assembly 2. Retimed magneto to engine 20 degrees Run up and ops checked performed.				
Date signed: 09/30/2016  Iven James Vaughan 3651690 A&P				

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.



LEFT ENGINE

October 20, 2016

N65GS

Hobbs 995.3

TIO-540-V2AD

T.T. 3043.8

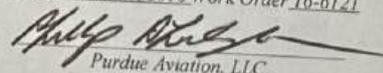
S/N L-8563-61A

T.S.O/H 940.0

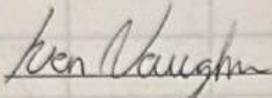
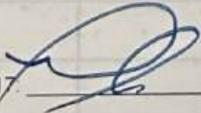
Complied with Annual Inspection of engine this date in accordance with Piper Mojave Inspection Report P/N 230-1088 issued December 9, 1994. Changed oil and oil filter. Check filter for debris, none noted. Obtained oil sample. Serviced with W100 Aeroshell and LW16702 additive. Compression check #1 75/80, #2 73/80, #3 70/80, #4 73/80, #5 70/80, #6 75/80. Removed engine magneto assy and repaired cylinder #3 wire connector. Reassembled mag and timed to engine. Complied with AD 15-19-07 "External Fuel Injection Lines" by inspection, no defects noted. Repaired forward baffle assy. Repaired prop deice leads with new Leads P/N 3E2050. Installed 6 new rocker cover gaskets P/N 96036. Run, leak and operational check satisfactory. See separate file for AD note listing and compliance.

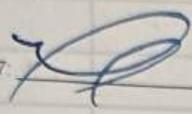
I certify that this engine has been inspected in accordance with an Annual inspection and has been approved for return to service.

Date October 20, 2016 Work Order 16-6121



Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHRR100C

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
MAKE: Piper MODEL: PA31P-350 REG NO. 65GS DATE: 11/11/2016 HOBBS: 1005.3 WORK ORDER # 1549				
At this time performed the following				
<ol style="list-style-type: none"> 1. Replaced Vacuum pump on left engine with new pump part no. AA442CW 2. Replaced 06A19956 Seal 				
Run Up and Operational Check Performed				
Date signed 11/11/2016:  Iven Vaughan 3651690 A&P				
Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.				
MAKE: Piper MODEL: PA31P 350 S/N: 31P-8414016 REG NO. N65GS DATE: 2-8-2017 A/C TT: 3452.3 Engine T.T 3065.8 T.S. O/H 962.0 Hobbs 1017.3 Left Engine WORK ORDER # 1574				
At this time performed the following				
<ol style="list-style-type: none"> 1. Drained Oil, Removed Filter and Oil Screen. 2. Inspected Oil filter and Screen and no trouble found at this time 3. Installed New AA48103-2 Oil Filter 4. Serviced engine with 11 quarts of Aeroshell 100W plus. 				
Run Up and Operational Check Performed				
Date signed: 2/8/2017:  Dominique J. Youakim 3021289 A&P/IA				
Maintenance Release This certifies that the work performed above was performed in accordance with manufacturer recommendations and applicable FAR's and is approved for return to service.				

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
MAKE: Piper MODEL: PA31P 350 S/N: 31P-8414016 REG NO. N65GS DATE: 2-8-2017 A/C TT: 3452.3 Engine T.T 3065.8 T.S. O/H 962.0 Hobbs 1017.3 Left Engine WORK ORDER # 1574				
At this time performed the following: Service Oil / Air Separator in Left & Right Engine Compartments				
Date signed: 2/8/2017  Dominique J. Youakim 3021289 A&P/IA				
Maintenance Release This certifies that the work performed above was performed in accordance with manufacturer recommendations and applicable FAR's and is approved for return to service.				



May 31, 2017

Left Engine

N65GS

Lycoming TIO-540-V2AD

Hobbs: 1063.2

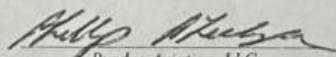
TT: 3111.7

S/N: L-8563-61A

TSO: 1007.9

Installed new Turbine Inlet Temperature probe P/N 2871, S/N 10256. Repaired damaged wire to Piper installed CHT probe. Repositioned prop deice brush wire. Repaired tail pipe bracket. Installed several new cowling fasteners P/N 487-704.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current approved data and was found to be airworthy with respect to work performed and was approved for return to service
 Date 05-31-2017 Work Order 17-6316*



Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #A1RR100C

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
				<p> MAKE: Piper MODEL: PA31P 350 S/N: 31P-8414016 REG NO. N65GS DATE: ⁵⁻¹⁵4-15 2017 A/C TT: 3492.0 Engine T.T: 3492 T.S. O/H: 1057 Hobbs 1057 Left Engine WORK ORDER # 1595 3105.5 1001.7 </p> <p>At this time performed the following</p> <ol style="list-style-type: none"> 1. Drained Oil, Removed Filter and Oil Screen. 2. Inspected Oil filter and Screen and no trouble found at this time 3. Installed New AA48103-2 Oil Filter 4. Serviced engine with 11 quarts of Aeroshell 100W plus <p>Run Up and Operational Check Performed</p> <p>Date signed: 5/18/2017. <u>Iven James Vaughan</u> Iven James Vaughan 3651690 A&P</p> <p>Maintenance Release This certifies that the work performed above was performed in accordance with manufacturer recommendations and applicable FAR's and is approved for return to service.</p>
				<p> MAKE: Piper MODEL: PA31P 350 S/N: 31P-8414016 REG NO. N65GS DATE: 8-8-2017 A/C TT: 3535.5 Engine T.T: 3149 T.S. O/H: 1045.2 Hobbs: 1100.5 Left Engine WORK ORDER # 1635 </p> <p>At this time performed the following</p> <ol style="list-style-type: none"> 1. Drained Oil, Removed Filter and Oil Screen. 2. Inspected Oil filter and Screen and no trouble found at this time 3. Installed New AA48103-2 Oil Filter 4. Serviced engine with 12 quarts of Aeroshell 100 <p>Run Up and Operational Check Performed</p> <p>Date signed: 8/8/2017. <u>Iven James Vaughan</u> Iven James Vaughan 3651690 A&P</p> <p>Maintenance Release This certifies that the work performed above was performed in accordance with manufacturer recommendations and applicable FAR's and is approved for return to service.</p>

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time
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LEFT ENGINE

October 31, 2017

N65GS

Hobbs 1127.3

TIO-5

T.T. 3

Complied with Annual Inspection of engine P/N 230-1088 issued December 9, 1994. Obtained oil sample. Serviced with W10 Compression check #1 74/80, #2 78/80, #3 78/80. Complied with AD 15-19-07 "External Fuel System". Cleaned air/oil separator. Installed new valve P/N LW13807. Tightened exhaust nut on #1 cylinder. Tightened alternator belt. Run, leak and operational check satisfactory. See separate file for AD note listing and compliance.

I certify that this engine has been inspected in accordance with an Annual inspection and has been approved for return to service.

Date October 31, 2017 Work Order 17-6439

Don P. Macy
 Purdue Aviation, LLC
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHR100C

1. Approving Civil Aviation Authority/Country FAA/DALLAS STATION		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number 5857666	
4. Organization Name and Address Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order/Contract/Invoice Number 2876478		
6. Item # 10	7. Description VALVE DRAN	8. Part Number LW13807	9. Quantity 1	10. Serial Number N/A	11. Status/Work New	
12. Remarks AUTHORIZED RELEASE DOCUMENT PO#: PO17-03354W						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			13b. <input type="checkbox"/> 14 CFR 43.9 (Repair) <input type="checkbox"/> Other regulations 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 14 CFR, Part 43 of Federal Regulations, part 43 and is related to the work. The work was performed for return to service.			
13c. Authorized Signature <i>Don P. Macy</i>		13d. Approval Authorization No. PC4		13e. Authorized Signature		13f. Approval Certificate No.
13g. Name (Typed or Printed) DON P. MACY		13h. Date (MM/DD/YYYY) 24/Oct/2017		13i. Name (Typed or Printed)		13j. Date (MM/DD/YYYY)
14. User/Installer Responsibility It is important to understand that the existence of this document does not automatically constitute authority to install the aircraft engine/propeller/rotor. When 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 their airworthiness authority accepts aircraft engine/propeller/rotor work from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 13b 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. FAA Form 8130-3 (02-14)						

A/C Model: PA31P-350
 A/C S/N: 31P-8414016
 LEFT ENG Model: TIO-540-V2AD
 LEFT ENG S/N: L-8563-61A
 LEFT ENG TSMOH: 1108.7

GAITROS AVIATION LLC
 790 SOUTH AIRPORT ROAD
 DECATUR, IL. 62521
 217.423.9903
 WWW.GAITROSAVIATION.COM

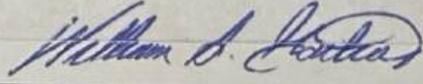
02/09/2018
 REG #: N65GS
 WO #:
 HOBBS: 1164.0
 AFTT: 3599.0

Left Engine Oil Change:

Drained oil and cut open filter for inspection. No contaminants found at this time. Installed new Oil Filter P/N CH48103-1 and serviced engine with 12 quarts of Aeroshell 100W oil. Serviced engine with LW16702 additive. Ran up aircraft and inspected for leaks. No leaks detected. Operational check nominal.

William S. Gaitros A&P 3051725

William S. Gaitros

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
				<div data-bbox="518 378 1061 514" style="text-align: center;">  </div> <p data-bbox="151 472 391 525">LEFT ENGINE</p> <p data-bbox="151 514 391 556">October 31, 2017</p> <p data-bbox="151 556 263 588">N65GS</p> <p data-bbox="151 588 343 630">Hobbs 1127.3</p> <p data-bbox="566 567 774 609">TIO-540-V2AD</p> <p data-bbox="566 609 718 651">T.T. 3175.8</p> <p data-bbox="1077 588 1292 630">S/N L-8563-61A</p> <p data-bbox="1077 630 1284 661">T.S.O/H 1072.0</p> <p data-bbox="151 630 1372 756">Complied with Annual Inspection of engine this date in accordance with Piper Mojave Inspection Report P/N 230-1088 issued December 9, 1994. Changed oil and oil filter. Check filter for debris, none noted. Obtained oil sample. Serviced with W100 Aeroshell and LW16702 additive. Compression check #1 74/80, #2 78/80, #3 78/80, #4 76/80, #5 77/80, #6 76/80.</p> <p data-bbox="151 756 1236 829">Complied with AD 15-19-07 "External Fuel Injection Lines" by inspection, no defects noted.</p> <p data-bbox="151 829 1356 892">Cleaned air/oil separator. Installed new rocker cover gaskets on Cyl's #3,4,5,6. Installed new fuel drain valve P/N LW13807. Tightened exhaust nut on #1 cylinder. Tightened alternator belt.</p> <p data-bbox="151 892 1292 934">Run, leak and operational check satisfactory. See separate file for AD note listing and compliance.</p> <p data-bbox="399 903 1029 976"><i>I certify that this engine has been inspected in accordance with an Annual inspection and has been approved for return to service.</i></p> <p data-bbox="582 955 957 997">Date <u>October 31, 2017</u> Work Order <u>17-6439</u></p> <p data-bbox="590 987 957 1060"></p> <p data-bbox="646 1039 885 1134">Purdue Aviation, LLC. 1630 Aviation Dr. West Lafayette, IN. 47906 Repair Station #AHRR100C</p>
				<div data-bbox="375 1239 630 1354"> <p>A/C Model: PA31P-350 A/C S/N: 31P-8414016 LEFT ENG Model: TIO-540-V2AD LEFT ENG S/N: L-8563-61A LEFT ENG TSMOH: 1108.7</p> </div> <div data-bbox="670 1239 973 1365" style="text-align: center;"> <p>GAITROS AVIATION LLC 790 SOUTH AIRPORT ROAD DECATUR, IL. 62521 217.423.9903 WWW.GAITROSAVIATION.COM</p> </div> <div data-bbox="1085 1249 1212 1375"> <p>02/09/2018 REG #: N65GS WO #: HOBBS: 1164.0 AFTT: 3599.0</p> </div> <p data-bbox="375 1396 574 1428">Left Engine Oil Change:</p> <p data-bbox="375 1449 1037 1543">Drained oil and cut open filter for inspection. No contaminants found at this time. Installed new Oil Filter P/N CH48103-1 and serviced engine with 12 quarts of Aeroshell 100W oil. Serviced engine with LW16702 additive. Ran up aircraft and inspected for leaks. No leaks detected. Operational check nominal.</p> <p data-bbox="375 1585 702 1617">William S. Gaitros A&P 3051725</p> <p data-bbox="766 1596 1189 1680"></p>

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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LEFT ENGINE

July 13, 2018
 N65GS
 Hobbs 1215.5

TIO-540-V2AD
 T.T. 3264.0

S/N L-8563-61A
 T.S.O/H 1160.2

Changed oil and oil filter this date. Checked filter for debris, none noted. Serviced with Aeroshell W100 plus. Installed new cylinder kit P/N 05K21260 in #6 position. Cylinder #6 compression 74/80. Installed exhaust pipes after repair by Aerospace welding on their work orders numbered 181402 and 181403. Installed new oil drain valve P/N CCB-37000. Installed new exhaust studs P/N 25C-10 in #5 cylinder. Engine run and leak check satisfactory.

The engine identified above was repaired and inspected in accordance with the current approved data and was found to be airworthy with respect to work performed and was returned to service

Date 07-13-2018 Work Order 18-6676

Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHRR100C



LEFT ENGINE

October 19, 2018
 N65GS
 Hobbs 1244.7

TIO-540-V2AD
 T.T. 3293.2

S/N L-8563-61A
 T.S.O/H 1189.4

Complied with Annual Inspection of engine this date in accordance with Piper Mojave Inspection Report P/N 230-1088 issued December 9, 1994. Changed oil and oil filter. Check filter for debris, none noted. Obtained oil sample. Serviced with W100 Aeroshell and LW16702 additive.

Compression check #1 74/80, #2 73/80, #3 74/80, #4 78/80, #5 77/80, #6 74/80. Complied with AD 15-19-07 "External Fuel Injection Lines" by inspection, no defects noted. Cleaned air/oil separator. Installed new rocker cover gaskets on Cyl's #1, 3, 4, and 5. Adjusted internal timing of magneto to correct position, re-installed magneto and adjusted engine timing to correct setting. Installed new left P lead washer. Installed new EGT probes P/N 2870 and new CHT probes P/N 2852 in cylinders #1 and #5. Run, leak and operational check satisfactory.

I certify that this engine has been inspected in accordance with an Annual inspection and has been approved for return to service.

Date October 19, 2018 Work Order 18-6793

Purdue Aviation, LLC.
 1630 Aviation Dr.
 West Lafayette, IN. 47906
 Repair Station #AHRR100C

Date: 7/16/2021; Aircraft: N65GS; Type: PA-31P-350; S/N: 31P-8414016; Hobbs: 1360.90; Tach.: Total Time: 3795.20; Work performed on Engine # 1; Engine 1 Type: LYCOMING TIO-510-V2AD, S/N L-8563-61A, Time: 3409.40, Last MOH: 1305.60 / Shop Order #: SH-21-0168

the signature
n/facility

Discrepancy: 300
ANNUAL INSPECTION DUE ON LEFT ENGINE

Corrective Action: 300
COMPLIED WITH ANNUAL INSPECTION ON LEFT ENGINE. NEXT DUE IN 12 MONTHS. SEE THIS WORK ORDER FOR DEFECTS.

Discrepancy: 301
CHANGE ENGINE OIL AND OIL FILTER. INSPECT OIL FILTER CARTRIDGE.

Corrective Action: 301
CHANGED ENGINE OIL AND OIL FILTER, INSPECTED OIL FILTER CARTRIDGE, NO DEFECTS NOTED. INSTALLED NEW ENGINE OIL FILTER PART NUMBER AA48103-2 AND SERVICED ENGINE WITH 12 QUARTS AEROSHELL 100W OIL. NO LEAKS NOTED FOLLOWING ENGINE RUN.

Discrepancy: 302
TAKE ENGINE OIL SAMPLE.
Corrective Action: 302
TOOK ENGINE OIL SAMPLE AND SENT FOR ANALYSIS

Discrepancy: 303
PERFORM COMPRESSION CHECK]
Corrective Action: 303
COMPRESSION CHECKED: 1- 72/80, 2- 72/80, 3- 68/80, 4- 72/80, 5- 68/80, 6- 72/80.

Discrepancy: 304
AD 15-19-07 FUELING LINE

Corrective Action: 304
COMPLIED WITH AD15-19-07 BY VISUAL AND PRESSURE CHECK OF FUEL LINE PER AD. NO DEFECTS NOTED AT THIS TIME. NEXT DUE IN 100 HOURS OR 12 MONTHS

Discrepancy: 305
INDUCTION AIR FILTERS DUE CHANGE
Corrective Action: 305
REMOVED AND REPLACED LEFT HAND AND RIGHT HAND INDUCTION AIR FILTERS WITH NEW FILTER PART NUMBER BA3305 IN ACCORDANCE WITH BRACKETT AIR FILTER DOCUMENT I-194. NEXT DUE IN 100 HOURS OR 12 MONTHS

Discrepancy: 306
LH MAG PN 10-682910-13 D6LN-3200 DUE 500HR INSPECTION
Corrective Action: 306
REMOVED LEFT HAND MAG PART NUMBER 10-682910-13 SERIAL NUMBER D-03032 AND SENT TO KELLY AERO. INSTALLED KELLY OVERHAULED MAG PART NUMBER 10-682910-13 SERIAL NUMBER J-06439. SEE KELLY AERO WORK ORDER 1924172. SB617B, 318, 619, AD82-11-05 AND AD81-12-06R1 COMPLIED WITH. INSTALLED MAG IN ACCORDANCE WITH LYCOMING SERVICE MANUAL

Discrepancy: 307
PIPER SB 644E EXHAUST V BAND CLAMPS DUE INSPECTION AND REPLACEMENT
Corrective Action: 307
INSTALLED NEW TURBO AND WASTE GATE TURBO PIPE V BAND CLAMP WITH NEW PART NUMBER 557-369 AND LW12125-3 AND GASKET 75845 IN ACCORDANCE WITH PIPER SB644E. NEXT DUE INSPECTION IN 100 HOURS, DUE CHANGE ON CONDITION.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was inspected and repaired in accordance with current regulations of the Federal Aviation Administration and FAA inspection. I certify that this aircraft was found airworthy and

is approved for return to service. Pertinent details of the repair are on file at this repair station.
SIGNED: James D. E DATE: 7-16-2021
Tri-State Aero, Inc. CRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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LT ENG

JT AVIATION MX, INC

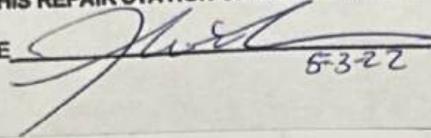
WO 5464

147 TOWER AVENUE GROTON NEW LONDON AIRPORT GROTON, CT 06340
 FAA Approved Repair Station # L4AR428X Phone: 860-326-5658

Registration #	ENG. Make / Model	Serial #	AFTT	HOBB
N65GS	LYC T10S40V2AD	L-8563-61A	—	1361.0

1. PERFORMED AN OIL AND FILTER CHANGE (WITH SAMPLE) INSTALL A NEW CH48103-1 FILTER AND SAFETIED, ADDED 11 QTS AERO 80PLUS OIL TO SUMP.
2. GROUND RAN AND LEAK CHECKED SATISFACTORY.

THE IDENTIFIED ENGINE ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE AT THIS REPAIR STATION UNDER WORK ORDER NO. 5464, DATED .

SIGNED JOHN M LOCKE  5-3-22

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time
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Description of work performed including the signature and certificate number of the person/facility performing the work.

LT ENG

JT AVIATION MX, INC

WO 5464

		Airframe				Powerplant		Propeller	
Date	8.31.2022	N#	65GS	Make	Lycoming	Make	Hartzell		
Hobbs	1369.4	Make	Piper	Left Model	S/N TIO-540-V2AD L-8563-61A	Model	S/N HCI3YR-2UF FS193A		
Offset	2434.3	Model	PA-31P-350 Mojave	ETSMOH TBO EXP 2016	1313.4	PSOH TBO EXP in 2005	1537		
AFTT	3803.7	S/N	31P-8414016	Right Model	S/N LTIO-540-V2AD L-2726-68A	Model	S/N HCI3YR-2LUF FS192A		
				ETSMOH TBO EXP 2016	1435	PSOH TBO EXP in 2005	1537		

Repairs

Right engine oil sump screen is damaged, straightened oil screen
 Changed oil in Left engine. Used 12 quarts of W100 oil and CH 48103-1 filter. Cut open old filters and no defects noted
 Changed oil in Right engine. Used 12 quarts of W100 oil and CH 48103-1 filter. Cut open old filters and no defects noted
 Left engine mount needs pain touch up
 Right engine mount needs pain touch up
 Left and Right oil drain plugs are leaking. Changed oil drain plugs. Added 07-00879 Oil drains
 Left engine has oil leaks on right bank of cylinders. Cleaned and ren engines no defects found

Airworthines Directives

Complied with A.D. 15-19-07 Fuel Inj lines Effective Date 11/3/2015. Inspected both engines fuel lines by Lycoming MSB #342G. No defects noted. **Next due whenever the top of the engine is touched or 100hrs**

Servicing

Serviced Spark Plugs in Left engine Used new gaskets M673 and Champion 2612 thread lube
 Serviced Spark Plugs in Right engine Used new gaskets M673 and Champion 2612 thread lube

F.A.R. Compliance

Complied with Compression Check with Left Engine # 1 71/80 #2 68/80 #3 64/80 #4 76/80 #5 65/80 #6 75/80. Right Engine #1 72/80 #2 78/80 #3 73/80 #4 74/80 #5 64/80 #6 74/80 All compression is good.

I certify that this aircraft has been inspected in accordance with an Annual inspection and a list of discrepancies and unairworthy items dated 6.15.2022 has been provided for the aircraft owner or operator.

Tony Nunes AP-AA 3042176

Tony Nunes A&P, I.A. 3042176 8952 Bridle Ridge Lane
 Manassas Va, 20110 804-869-9607
 t_nunes@verizon.net

