

# Engine Maintenance Records

*The Power of Experience*



# Engine Maintenance Records

Log Number: \_\_\_\_\_

Aircraft Registration Number: \_\_\_\_\_

Engine Manufacturer: Lycoming

Model: JO-540-K1G5

Serial Number: L-26510-48A

Date Installed on Aircraft: \_\_\_\_\_

Time Between Overhauls: 2000 hours

Engine Position: \_\_\_\_\_

*The Power of Experience*



Penn Yan Aero 2499 Bath Road, Penn Yan, New York 14527 U.S.A.

315-536-2333

Repair Station Approval

FAA: Y2GR396Y

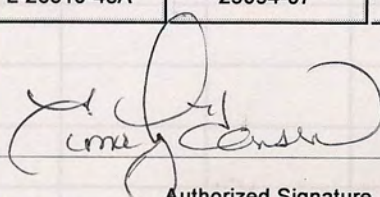

EASA: 145.5936

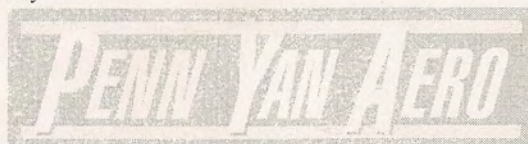
[www.PennYanAero.com](http://www.PennYanAero.com)







Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 2																								
				Balance Forward																									
<div style="border: 1px solid black; padding: 10px;"> <p>The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:</p> <table border="1" style="width: 100%;"> <tr> <td colspan="3">Engine Model IO-540-K1G5</td> </tr> <tr> <td>Serial Number L-26510-48A</td> <td>Our WO# 25094-07</td> <td>Invoice Date 4/4/2008</td> </tr> </table> <div style="text-align: center;">             Authorized Signature         </div> <div style="text-align: center;">   <b>Penn Yan Aero</b>            2499 Bath Road, Penn Yan, New York 14527            Telephone: 1-315-536-2333            www.pennyanero.com            FAA Approved Repair Station: Y2GR396Y            EASA 145.5936         </div> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td>Right Magneto - Part# 6350</td> <td>Right Magneto - SN# 06051058</td> </tr> <tr> <td>Left Magneto - Part# 6351</td> <td>Left Magneto - SN# 06040797</td> </tr> <tr> <td>Injector/Carb - Part# 2524273-12</td> <td>Injector/Carb - SN# 81053</td> </tr> <tr> <td>Fuel Pump - Part# 41234</td> <td>Fuel Pump - SN# AA23123</td> </tr> <tr> <td>Starter - Part# 149-NL (New)</td> <td>Starter - SN# FN-450755</td> </tr> <tr> <td>Turbo - Part# N/A</td> <td>Turbo - SN# N/A</td> </tr> <tr> <td>Controller - 1 - Part# N/A</td> <td>Controller - 1 - SN# N/A</td> </tr> <tr> <td>Controller - 2 - Part# N/A</td> <td>Controller - 2 - SN# N/A</td> </tr> <tr> <td>Wastegate - Part# N/A</td> <td>Wastegate - SN# N/A</td> </tr> </table> </div>						Engine Model IO-540-K1G5			Serial Number L-26510-48A	Our WO# 25094-07	Invoice Date 4/4/2008	Right Magneto - Part# 6350	Right Magneto - SN# 06051058	Left Magneto - Part# 6351	Left Magneto - SN# 06040797	Injector/Carb - Part# 2524273-12	Injector/Carb - SN# 81053	Fuel Pump - Part# 41234	Fuel Pump - SN# AA23123	Starter - Part# 149-NL (New)	Starter - SN# FN-450755	Turbo - Part# N/A	Turbo - SN# N/A	Controller - 1 - Part# N/A	Controller - 1 - SN# N/A	Controller - 2 - Part# N/A	Controller - 2 - SN# N/A	Wastegate - Part# N/A	Wastegate - SN# N/A
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				Totals – Carry Forward																									



# WORK ORDER FORM 100



**PENN YAN AERO**

2499 Bath Road  
Penn Yan, New York 14527

315/536-2333

Customer **CSG01 / CSG AVIATION**

Cust RO#

Work Req **CUSTOM**

P/N **IO-540-K1G5 / ENGINE**

Step **ADJUSTED PRICE. AWAIT**

S/N **L-26510-48A**

Mfg **TEX01**

FAA ID NO. **Y2GR396Y**

WORK ORDER #**25094-07**

Dept #**ENG** Page NO. **1**

Location **ENG**

Warranty Code **00 / 0**

Goodthru AD# **08-06**

Reason/Rm **MOHC**

Manual#

Rev. / /

Rev#

ATA NO.:

Date Reqr'd **02/04/2008**

Date Estmtd / /

**PRELIMINARY INSPECTION:**

**DATE: 12/19/2007**

**INSPECTOR: T.HANSEN**

No shipping damage.

**PRE TEST (Yes/No) N**

**DATE: / /**

**INSPECTOR:**

Not required.

**HIDDEN DAMAGE:**

No hidden damage.

**TEARDOWN FINDINGS:**

Normal runout engine core. No abnormal wear or damage noted.

**TECHNICIAN: R.CHRISTENSEN**

**DATE: 01/02/2008**

**INSPECTOR: T.HANSEN**

**FINAL INSPECTION BEFORE ASSEMBLY:**

**DATE: 01/29/2008**

**INSPECTOR: T.HANSEN**

**CORRECTIVE ACTION:**

This engine has been overhauled to manufacturer's new part limits and tolerances where applicable. It has been disassembled, cleaned, inspected, repaired, and reassembled in accordance with data approved by or acceptable to the FAA. This engine has been dynamic balanced in accordance with FAA Approved Process Specification AMP-4302. Installed a new Lycoming crankshaft S/N: V537950607 in accordance with SB569A. Test cell run was satisfactory for return to service.

**TECHNICIAN: R.KIRCHER**

**DATE: 03/25/2008**

**INSPECTOR: T.HANSEN**

**MODIFICATION/SERVICE BULLETINES:**

Applicable AD's have been complied with, see separate AD sheet supplied.

**Test Data Used:** Data approved or acceptable to the FAA.

**Test Technician: D.LEDGERWOOD**

**DATE: 04/01/2008**

**Inspector: T.HANSEN**

**DATE: 04/01/2008**

**Final Inspection: T.HANSEN**

**DATE: 04/04/2008**

**Technician:**

**DATE: / /**

**Inspector:**

**DATE: / /**



# WORK ORDER FORM 100



PENN YAN AERO  
2499 Bath Road  
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #25094-07

315/536-2333

Dept #ENG Page NO. 2

Customer CSG01 / CSG AVIATION

Location ENG

Cust RO#

Step ADJUSTED PRICE. AWAIT

Warranty Code 00 / 0

Work Req CUSTOM

Goodthru AD# 08-06

P/N IO-540-K1G5 / ENGINE

S/N L-26510-48A

Mfg TEX01

## ADDITIONAL COMMENTS:

(1)

(2)

## PARTS DETAIL:

Line#	PART NUMBER	DESCRIPTION	CD	Qty	Serial Number
1	05K23617	CRANKSHAFT KIT SB569A	NE	1.00	V537950607
2	111-4	HOSE	NE	34.00	
3	111-6	HOSE *	NE	11.00	
4	13S19647	GEAR	NE	1.00	
5	149-NL	H-TORQ INLINE BOTH 12/24V	NE	1.00	FN-450755
6	15F19957-58	PUSH ROD	NE	3.00	
7	2524232-2R	MANIFOLD VALVE	OH	1.00	0158523
8	2524273-12R	FUEL SERVO OH PYAS RSA10E	OH	1.00	81053
9	2524864R	NOZZLES	OH	6.00	
10	2577258--F	GASKET	NE	1.00	
11	2650-8	FIRESLLEEVE	NE	11.00	
12	300-4S	ST FLARED -STEEL	NE	2.00	
13	300-6S	FITTING -STEEL	NE	2.00	
14	41234R	HIGH PRESS FUEL PUMP*	OH	1.00	AA23123
15	56G23399	OIL SUMP BAFFLE	NE	1.00	
16	6350R	O/H MAGNETO	OH	1.00	06051058
17	6351R	MAGNETO	OH	1.00	06040797
18	67542	BEARING	NE	2.00	
19	68H22624	CUSHION	NE	4.00	
20	71610	HOOK *	NE	4.00	
21	71611	RETAINER *	NE	4.00	
22	71652	GEAR ASSY	NE	1.00	
23	72255	TUBE ASSY	NE	2.00	
24	72566	GEAR STARTER RING	NE	1.00	
25	72834	COVER	NE	4.00	
26	72877R	LIFTER, REGROUND *	OH	12.00	
27	73000	COUPLING	NE	1.00	
28	73644R	COUNTERWEIGHT, REGROUND	OH	1.00	S154325-3
29	73644R	COUNTERWEIGHT, REGROUND	OH	1.00	S155707-6
30	73772	PISTON COOLING NOZZLES	NE	1.00	
31	74494	PLATE	NE	6.00	
32	75338	BAFFLE ASSY	NE	4.00	



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PENN YAN AERO

2499 Bath Road  
Penn Yan, New York 14527

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Cust RO#

Work Req CUSTOM

P/N IO-540-K1G5 / ENGINE

Step ADJUSTED PRICE. AWAIT

FAA ID NO. Y2GR396Y

WORK ORDER #25094-07

Dept #ENG Page NO. 3

Location ENG

Warranty Code 00 / 0

Goodthru AD# 08-06

S/N L-26510-48A

Mfg TEX01

33	77527	EXTENSION PIPE	NE	1.00	
34	AEL19600	VERNATHERM	OH	1.00	3476
35	AN565B1032H5	SCREW	NE	1.00	
36	CCL540IOWA-PYA	CASE, PYA O/H	OH	1.00	K0186
37	ES48110-1	FILTER & STUD ASSEMBLE	NE	1.00	
38	LW-13384	SUPPORT	NE	2.00	
39	LW-13923	BUSHING	NE	6.00	
40	LW-19340R-PK	CAM, 6 CYL REGROUND*	OH	1.00	
41	M6001	HARNESS (COMPLETE)	NE	1.00	
42	MS16625-2081	SNAP RING - TACH	NE	1.00	
43	SL12098-0-280	TUBE ASSY *	NE	1.00	
44	SL15H21201	SPRING - SHROUD TUBE	NE	24.00	
45	SL61544	PLUNGER *	NE	1.00	
46	SL73648	ROLLER *	NE	2.00	
47	SL76788	ROLLER *	NE	2.00	
48	STD-1686	SCREW	NE	6.00	
49	STD-488	WASHER	NE	6.00	
50	UREM38E	UNISON SPARK PLUG	NE	12.00	
51	05K21120	CYLINDER KIT	NE	6.00	
52	SL72626A	SHAFT	NE	12.00	
53	SL74389	BUSHING	NE	12.00	

## MAINTENANCE RELEASE RECORD

THE COMPONENT IDENTIFIED ABOVE WAS OVERHAULED AND INSPECTED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION, AND IS APPROVED FOR RETURN TO SERVICE. OTHER PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION.

Approved return to Service By TIMOTHY HANSEN

Date Apr 04,2008

WOPSTM









Description of Work Performed  
Certificate Number & Signature of Technician Performing Work

N498HP **BAY AIR FLYING SERVICE** 10/11/2008  
Tach: 2200.6

**ENGINE**

Changed oil and filter with 12 quarts 20W50 Phillips X-Country. Removed and replaced CH48110-1 filter. Took sample for analysis. Run up okay. No leaks.

 2823790 A&P  
William Lindberg

Tach or  
Recording  
Meter Time

N498HP **BAY AIR FLYING SERVICE** 2/2/2009  
Tach: 2275.4

2000 = 75

Total Time  
Since  
Overhaul

**ENGINE**

Changed oil and filter with 12 quarts 20W50 Phillips X-Country. Removed and replaced CH48110-1 filter. Took sample for analysis. Run up okay. No leaks.

Total Time  
In Service

 2823790 A&P  
William Lindberg

Date

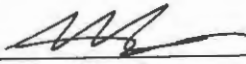
Totals - Carry Forward



N498HP BAY AIR FLYING SERVICE 2/2/2009  
Tach: 2/2/2009

**ENGINE**

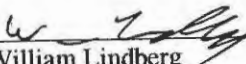
Performed troubleshooting of engine. Performed compression check. Cleaned fuel injectors. One clogged injector found. Test ran aircraft. Test run okay.

  
Nathan Van Coops 2747192 A&P

N498HP BAY AIR FLYING SERVICE 2/4/2009  
Tach: 2277.8

**ENGINE**

Cleaned servo inlet screen. Checked flow divider. Okay. Removed and replaced fuel flow flex hose between servo and flow divider.

  
William Lindberg 2823790 A&P

N498HP BAY AIR FLYING SERVICE, INC. 05/01/09  
HOBBS: 2343.1 TTE: 2343.1 SMOH: 258

$\Delta \text{oil} = 67.7$

**ENGINE**

Completed Annual inspection this date. Drained oil and changed filter with new CH48110-1. Cut open filter for inspection, no metal noted. Serviced engine with 12 quarts Phillips 20w-50 XC. Cleaned, gapped and tested spark plugs. Compression check results: (1) 78 (2) 77 (3) 74 (4) 75 (5) 78 (6) 77/80. Checked AD's to current bi-weekly. Complied with AD 99-04-04 by inspection of impulse coupling. Complied with AD 08-14-07 by inspection of external fuel lines. No other new or recurring AD's applicable at this time. Ran engine for operation and leak check. Ops check good, no leaks noted. I certify that this engine has been inspected in accordance with an annual inspection and is found to be airworthy at this time.

  
Nathan Van Coops AP2747192IA

Totals - Carry Forward





Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 6
19 Oct 09	2440.3			<del>Balance Forward</del> oil & filter @ 2440.3 hrs on 19 Oct 09	
				by Galendo Aircraft - see Aircraft Log	
				<p>GALINDO AIRCRAFT SERVICE, INC. WEST HOUSTON AIRPORT, 281-492-6749.</p> <p>JUNE 2, 2010. METER READING, 2486.2 HOURS. ENGINE TIME SINCE MAJOR OVERHAUL, 401.1 HOURS. CHANGED OIL AND FILTER. CUT OLD FILTER AND CHECKED FOR METAL CONTAMINANTS, NO METAL THIS INSPECTION. SERVICED ENGINE WITH SHELL 15 W 50 OIL. COMPRESSION TEST, HOT ENGINE: 1 76/80, 2 76/80, 3 72/80, 4 76/80, 5 75/80, 6 76/80. CHECKED MAGNETO TIMING AND HIGH TENSION LEADS. CLEANED, GAPPED AND ROTATED SPARK PLUGS. AD 2008-14-17 COMPLIED WITH BY INSPECTION OF FUEL INJECTOR LINES AND CLAMPS, NO DEFECTS THIS INSPECTION. REPLACED ALL DETERIORATED SCAT HOSES. PERFORMED PRESSURE TEST INSPECTION OF EXHAUST SYSTEM, CHECKED OK THIS INSPECTION. WASHED DOWN ENGINE AND COWLING, RAN AND CHECKED FOR LEAKS.</p> <p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE AN ANNUAL INSPECTION AND WAS DETERMINED AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p>	
				SIGNED <u><i>[Signature]</i></u> 3397518 JA	
				Totals - Carry Forward	

N498HP

JULY 208, 2011 2577.40 COMPRESSION TEST #1 74/80 #2 74/80 #3 70/80 #4 72/80. #5 78/80 #6 72/80. DRAINED OIL, ADDED 11 QTS AEROSHELL W100 OIL. CHECKED FILTER, NO METAL, INSTALLED CH48110-1 FILTER. CLEANED AND GAPPED PLUGS. CHECKED MAG TO ENGINE TIMING. INSPECTED ALL ENGINE ACCESSORIES FOR SECURITY. RAN ENGINE, NO LEAKS. CW AD 08-14-17 FUEL INJECTOR LINE INSPECTION, NEXT DUE AT HM 2677.40. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

JULY 20, 2011 HM 2577.40 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION, AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

~~3416790~~  
A&P  
3416790

SANTA FE

**AERO SERVICES**

AVIONICS  
MAINTENANCE  
SALES

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507

Date: 9-30-11 Make: Piper Model: Saratoga II S/N: 3246121

Tach: 2603.8 Hobbs: N/A

REPLACED ALTERNATOR INOP SWITCH. P/N 587-857 S/N 80744A40. -END-

Matthew Bongers  
A&P 3416790

*Matthew Bongers*  
*A&P 3416790*

Work accomplished at Santa Fe Aero Services, LLC. Reference work order # 2696

*Airframe log*  
*Engine Log #13*  
*3416790*

Page: 7

**>>CUTTER>**

Leading the Business of Aviation  
FAA Repair Station GMZR383E  
505-842-4184

Reg # N498HP  
S/N 3246121  
HM 2604.7  
TACH N/A

DATE 10/1/2011  
W/O 01M-4132  
AFTT N/A  
AFCyc N/A

1. Installed new alternator control part no. B00368-2-F, S/N B0162004, removed S/N 80126915

2. - Ground run aircraft, operation check normal.

This aircraft and/or component is certified to be airworthy for return to service with respect to the work performed.

Edward P Gerard


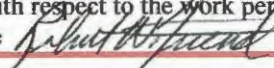

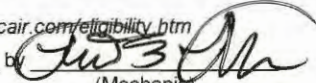
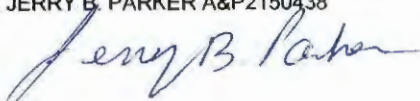
Signature *Edward P Gerard*

Page 1 of 1

Totals - Carry Forward

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Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 8
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>Leading the Business of Aviation</b> FAA Repair Station GMZR383E 505-842-4184</p> </div> <div> <p>Reg # N498HP S/N 3246121 HM 2604.7 TACH N/A</p> </div> <div> <p>DATE 10/6/2011 W/O 01M-4134</p> </div> </div>					
<ol style="list-style-type: none"> <li>1. Installed new Kelly Aerospace alternator part number ES4011-1LS S/N 100821.</li> <li>2. Removed alternator control part no. B00368-2-F, S/N, S/N B162004 and installed S/N 80126915.</li> <li>3. Ground run aircraft, operation check normal.</li> </ol> <p>This aircraft and/or component is certified to be airworthy for return to service with respect to the work performed.</p> <div style="display: flex; justify-content: space-between;"> <p>Robert Friend</p> <p>Signature  Page 1 of 1</p> </div>					
<p>N498HP Piper Saratoga PA-32R-301 s/n 3246121 <i>HOBBS 2717.7</i></p> <p>08/24/2013 Removed Skytec Starter p/n 149-NL and installed a new exchange Skytec Starter s/n FN-121381, charged aircraft battery, test start, normal starter ops.</p> <p>Quality Aircraft Services A+P26444788IA </p>					
<div style="display: flex; justify-content: space-between;"> <div> <p><b>FAA - PMA</b> <i>Starter</i></p> <p>This tag certifies that Sky-Tec Model No. <b>149-NL</b> Serial No. <b>FN-121381</b> was manufactured new on <u>28 Mar 2013</u> by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement No. <u>7</u> per CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and conforms to the relevant FAA-approved drawings. This part has been determined to be airworthy. For installation eligibility see <a href="http://www.skytecair.com/reliability.htm">www.skytecair.com/reliability.htm</a> Starter Installed on <b>N498HP</b> by  (Aircraft) (Mechanic) <i>A+P26444788</i></p> </div> <div> <p>N498HP SEPTEMBER 24, 2013 HM 2718.90 COMPRESSION CHECK #1 76/80 #2 76/80 #3 72/80 #4 72/80 #5 79/80 #6 78/80. DRAINED OIL, CUT FILTER, NO METAL, ADDED 11 QTS AEROSHELL W100 AND INSTALLED CH48103-1 OIL FILTER. CLEANED AND GAPPED PLUGS. REMOVED LEFT AND RIGHT MAGNETOS, REPLACED CONTACT ASSY. PN M3081 IN BOTH MAGS. REPLACED CAPICATORS PN K3984 IN BOTH MAGNETOS. REPLACED IMPLUSE COUPLING ON LEFT MAGNETO PN M3333. THIS CW AD 99-04-04 NEXT DUE AT HM 2968.90. INSPECTED ALL ENGINE ACCESSORIES FOR SECURITY. JERRY B. PARKER A&amp;P2150438 </p> </div> </div>					
<p>Form CC1108-1</p>					

N498HP

SEPTEMBER 24, 2013 HM 2718.90 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 13, 2015 TACH 368.40 & TT COMPRESSION TEST #1 75/80 #2 75/80 #3 66/80 #4 72/80 #5 73/80 #6 70/80.. DRAINED OIL CHECKED FILTER, NO METAL INSTALLED CH48110-1 FILTER. INSPECTED ALL ACCESSORIES FOR SECURITY. ADDED 11 QTS AEROSHELL W100 OIL CLEANED AND GAPPED SPARK PLUGS. REPLACED 5 EA VALVE COVER GASKETS. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 24, 2016 TACH & TT 2920.50 COMPRESSION TEST BEFORE TEAR DOWN. #1 72/80 #2 74/80 #3 70/80 #4 70/80. CLEANED AND GAPPED PLUGS. INSPECTED ENGINE FOR PROPER INSTALL. CW AD 15-19-17 EXTERNAL FUEL LINE INSPECTION, NEXT DUE AT 3029.50. RAN ENGINE, NO LEAKS. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 22, 2014 HM AND TT 2779.80 COMPRESSION CHECK #1 71/80 #2 73/80 #3 70/80 #4 76/80 #5 76/80 #6 70/80. DRAINED OIL, CUT FILTER, NO METAL, ADDED 11 QTS AEROSHELL W100 AND INSTALLED CH48110-1 OIL CHECKED MAG TO ENG. TIMING. INSPECTED ALL ENGINE ACCESSORIES FOR SECURITY. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 13, 2015 HM 2851.20 & ACTT. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 24, 2016 TACH & TT 2920.50 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

AUGUST 22, 2014 HM AND TT 2718.90 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N498HP

JULY 15, 2016 HM 2912.20 REPLACED SHIPS BATTERY CONCORD RG24-11M SN 40818553. REMOVED PROPELLER INSTALLED NEW BELT PN 37D22355, REINSTALLED PROP. RAN ENGINE, NO LEAKS. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

Totals - Carry Forward

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[illegible]

N498HP

HOBBS: 3000.0

S/N L-26510-48L

11/01/17

REMOVED L/H MAGNETO P/N 6351 S/N 06040797 AND RE-INSTALLED AFTER 500 HOUR INSPECTION BY AIRCRAFT ACCESSORIES OF OKLAHOMA REFERENCE FAA FORM 3180-3 DATED 10/13/17.

REMOVED R/H MAGNETO P/N 6350 S/N 06051058 AND RE-INSTALLED AFTER 500 HOUR INSPECTION BY AIRCRAFT ACCESSORIES OF OKLAHOMA REFERENCE FAA FORM 8130-3 DATED 10-13-17.

REMOVED L/H MUFFLER SHROUD P/N 24826-02 AND RE-INSTALLED AFTER REPAIR BY AEROSPACE WELDING INC. REFERENCE FAA FORM 8130-3 DATED 10/13/17.

REMOVED R/H MUFFLER SHROUD P/N24862-028 AND RE-INSTALLED AFTER REPAIR BY AEROSPACE WELDING INC. REFERENCE FAA FORM 8130-3 DATED 10/13/17.

REMOVED L/H MUFFLER P/N 26345-008 AND RE-INSTALLED AFTER REPAIR BY DAWLEY AVIATION REFERENCE DAWLEY AVIATION WORK ORDER DATED 10/17/17.

REMOVED R/H MUFFLER P/N 26345-008 AND RE-INSTALLED AFTER REPAIR BY DAWLEY AVIATION REFERENCE DAWLEY AVIATION WORK ORDER DATED 10/17/17.

INSTALLED NEW OIL COOLER HOSE P/N 124F008E0212C030 AT L/H OUT BOARD OIL COOLER PORT TO ENGINE. NOTE NEW HOSE IS TSO-C53a TYPE D COMPLIANT AND COMPLIES WITH AD 2017-14-04.

COMPRESSION TEST #1 79/80, #2 79/80, # 3 79/80, #4 78/80, #5 79/80, #6 79/80.

INSTALLED NEW BRACKET AIR FILTER ELEMENT P/N BA-104.

CHANGED OIL AND SERVICED ENGINE WITH 12 QUARTS AEROSHELL 100W. INSTALLED NEW CH48110-1 OIL FILTER. CUT OPEN OIL FILTER AND INSPECTED NO DEFECTS NOTED.

SENT OIL SAMPLE TO SKYWATCH AIRCRAFT OIL ANALYSIS REFERENCE KIT # 252488-1.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100 INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION.

*WALTER IRVING LANSING*

WALTER IRVING LANSING

A&P, IA 2784226

REDBIRD SKYPORT MAINTENANCE

Total In S																			
Date																			

Totals - Carry Forward

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N498HP

HOBBS: 3000.0

HC-13YR-1RF

S/N HK328A

11/01/17

DRESS OUT NICKS AS REQUIRED.

I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH 100 INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION.



WALTER IRVING LANSING

A&amp;P, IA 2784226

REDBIRD SKYPORT MAINTENANCE

Propeller Log

Performed  
Inspection Per

## Gafford Aero, Inc.

1833 Airport Dr., San Marcos, TX 78666

(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)

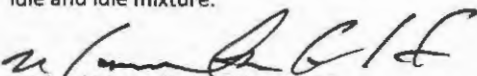
## ENGINE Log

Date: 10/1/2019

N: 498HP

Hobbs: 3060.3

Removed the fuel system from the firewall fuel supply fitting to the engine due to water contamination found in fuel tanks, and signs of contamination in the fuel injectors. Installed new fuel hoses as follows: 156F062E0212D030 fuel supply hose to the fuel pump, 111F417-6S0116 pump to servo hose, and 111F504-4S0262 servo to fuel flow transducer hose. Installed an overhauled LW15473 fuel pump, S/N 08MW23. Cleaned and inspected fuel flow transducer. The following components were repaired or overhauled as noted by Aircraft Carb and Injection Service of TX -- WO # 7989. Installed RSA10ED1 fuel servo, P/N 2524273-12, S/N 81053 after repair. Installed 2524232-2 flow divider, S/N 2395 after overhauled. Injection lines and injectors were cleaned and flow checked. Ran boost pump and leak checked complete fuel system, no leaks noted. Ran engine, adjusted fuel servo for proper idle and idle mixture.



Michael Medcalf A&amp;P 2764389

Balance

## Gafford Aero, Inc.

1833 Airport Dr., San Marcos, TX 78666

(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)

## ENGINE Log

Date: 6/24/2019

N: 498HP

Hobbs: 3051.1

Pressure tested the exhaust and induction systems due to reports of rough running engine. Repaired induction leaks by replacing the 72711 orings and 71973 gaskets for all 6 induction pipes. Repaired oil leaks by replacing all the RG-67193 valve cover gaskets. Installed all new STD-2180 cylinder oil drain back hoses. Installed a new 73027 drain back tube for cylinder #3. Repositioned the RH baffle tie rod connecting the fwd and aft baffles to prevent chafing against the oil drain back tubes. Installed a new 65103-003 LH baffle tie rod (was not one previously installed). Checked mag timing and adjusted per the manual. Ran the engine, set up the idle and idle mixture. Leak checked the engine, no leaks noted.



Michael Medcalf A&amp;P 2764389

Totals - Carry Forward



N498HP

HOBBS: 3000.0

HC-13YR-1RF

S/N HK328A

11/01/17

2017-01-01 11:01:17

DRESS OUT NICKS AS REQUIRED.

I CERTIF  
HAS BEE

Specialized Aero LLC.  
2285 Airport Drive  
San Marcos, Texas 78666  
Phone: 512-392-4534  
Fax: 512-392-4514  
FAA Repair Station No. 7SLR322B

Reg. No.

N498HP

Tach Time

3034.5

## Engine Log

W.O. No.

185305

TSMOH

Work Performed: Performed Annual/100 hr. Inspection 14CFR 43 App. D using Specialized Aero Checklist. Drained and refilled oil removed and replaced oil filter. Inspected oil filter, no contamination found. Inspected cleaned, gapped, tested, and rotated spark plugs, checked magneto timing. All ads complied with. No new A.D.'s at this time. Run up preformed per POH and no leaks noted.

Compressions: #1: 76/80 #2: 72/80 #3: 74/80 #4: 78/80 #5: 78/80 #6 78/80

## Parts Installed

## Due Dates / Times

1 Champion Oil Filter P/N 48108-1

Annual/100hour

2134.5/11/2019

10 Qts. Aeroshell 15-50

BRACKER FILTER

11/19 or 2134.5

12 MS17840-1 Spark Plug Gasket

1 N535769-21 Crush Gasket

## Compliance Record

Item	Description	Next Due
C/W	Oil Filter Inspection.	Oil Change
AD 2015-19-07	EXTERNAL FUEL INJECTOR LINES	2134.5 / 11/06/19

This engine has been inspected in accordance with an Annual/100 hr. Inspection as per 14CFR 43 App. D using Specialized Aero Checklist and has been determined to be in Airworthy Condition. Pertinent details are on file at this Repair Station under Work Order #185305

Gary J Angier  
CSR# 7SLR322B

11/06/2018  
Date

ENGIN

Remov  
contan

new fuel hoses as follows: 156F062E0212D030 fuel supply hose to the fuel pump, 111F411-650116 pump to servo hose, and 111F504-4S0262 servo to fuel flow transducer hose. Installed an overhauled LW15473 fuel pump, S/N 08MW23. Cleaned and inspected fuel flow transducer. The following components were and Injection Service of TX -- WO # 7989. In: S/N 81053 after repair. Installed 2524232-2 Injection lines and injectors were cleaned and checked complete fuel system, no leaks noted idle and idle mixture.

Michael Medcalf A&P 2764389

Balance



Specialized Aero LLC.  
2285 Airport Drive  
San Marcos, Texas  
78666  
Phone: (512) 392-4534  
Fax: (512) 392-4514  
FAA Repair Station  
No. 7SLR322B

Reg. No.

N498HP

Tach, Total  
Time

3044.1

Make

Piper

Model

PA-32R-301

A/C S/N

3246121

Nationality

USA

## Engine Log

W.O. No.

195643

Work Performed: Removed all top spark plugs. Cleaned and re-gapped plugs. Reinstalled all top plugs. Checked timing on left and right Magnetos timing was good. All work IAW Piper PA-32R-301 and AC43.13-1B Run-up Good

I Certify this task was repaired and inspected in accordance with current regulations of the FAA and was determined to be in airworthy condition and approved for return to service (for work performed). Pertinent details of the repair are on file at this repair station under Work Order No. 195643.

Gary J Angier  
A&P 3694489

3/12/19  
Date

Gafford

1833 Airport Dr., San Marcos, TX 78666  
(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)

ENGINE Log

Date: 6/24/2019

N: 498HP

Hobbs: 3051.1

Pressure tested the exhaust and induction systems due to reports of rough running engine. Repaired induction leaks by replacing the 72711 orings and 71973 gaskets for all 6 induction pipes. Repaired oil leaks by replacing all the RG-67193 valve cover gaskets. Installed all new STD-2180 cylinder oil drain back hoses. Installed a new 73027 drain back tube for cylinder #3. Repositioned the RH baffle tie rod connecting the fwd and aft baffles to prevent chafing against the oil drain back tubes. Installed a new 65103-003 LH baffle tie rod (was not one previously installed). Checked mag timing and adjusted per the manual. Ran the engine, set up the idle and idle mixture. Leak checked the engine, no leaks noted.

Michael Medcalf A&P 2764389



1833 Airport Dr., San Marcos, TX 78666  
(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)

Accomplished an annual inspection IAW the scope and detail of FAR Part 43, Appendix D. Removed plugs, checked compressions, timing, exhaust and induction systems. Cleaned, gapped, rotated and tested the spark plugs. Cleaned fuel screen, inspected fuel system. Mount, accessories, wiring, and hoses were inspected. Changed oil and filter, Aeroshell 100W Plus. Took Blackstone oil sample. Inspected filter and screen, no metal noted. Inspected induction air filter. Ran engine and leak checked, no leaks noted.

C/W AD 2015-19-07, inspected fuel injection lines and clamps, due each 110 hrs.

I certify this engine has been inspected IAW an **annual** inspection and was determined to be in airworthy condition.

Compression: #1—78/80 #3—72/80 #5—78/80  
#2—72/80 #4—72/80 #6—76/80

Kenneth Medcalf A&P 452760326 IA

1833 Airport Dr., San Marcos, TX 78666  
(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)

Accomplished an annual inspection IAW the scope and detail of FAR Part 43, Appendix D. Removed plugs, checked compressions, timing, exhaust and induction systems. Cleaned fuel screen, inspected fuel system. Mount, accessories, wiring, and hoses were inspected. Changed oil and filter, Aeroshell 15W/50. Inspected filter and screen, no metal noted. Inspected induction air filter. Ran engine and leak checked, no leaks noted. **C/W AD 2015-19-07**, inspected fuel injection lines and clamps, due each 110 hrs. I certify this engine has been inspected IAW an **annual** inspection and was determined to be in airworthy condition.

Compression: #1—78/80 #3—72/80 #5—78/80  
#2—77/80 #4—76/80 #6—76/80

Kenneth Medcalf  
Kenneth Medcalf A&P 452760326 IA

1833 AIRPORT DRIVE, P.O.BOX 1354. SAN MARCOS, TEXAS 78667  
Phone 512 396-3323, Fax 512 396-3329. e-mail [info@gaffordaero.com](mailto:info@gaffordaero.com)

Installed a new 149-NL/ec starter, S/N H-V061898. Functional test normal.

Michael Medcalf A&P 2764389

Totals - Carry Forward

[illegible]

Balance Forward

**Gafford Aero, Inc.**1833 Airport Dr., San Marcos, TX 78666  
(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)**ENGINE Log** Date: 5/18/2022 N: 498HP Hobbs: 3154.1 TSMOH: 1069.1 TT: 3154.1

Accomplished an annual inspection IAW the scope and detail of FAR Part 43, Appendix D. Removed plugs, checked compressions, timing, exhaust and induction systems. Cleaned, gapped, tested and rotated the plugs. Cleaned fuel screen, inspected fuel system. Mount, accessories, wiring, and hoses were inspected. Changed oil and filter, Aeroshell 15W/50. Inspected filter and screen, no metal noted. Inspected induction air filter. Ran engine and leak checked, no leaks noted.

**C/W AD 2015-19-07**, inspected fuel injection lines and clamps, due each 110 hrs.I certify this engine has been inspected IAW an **annual** inspection and was determined to be in airworthy condition.

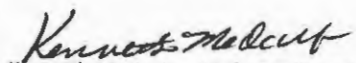
Compression: #1—78/80 #3—66/80 #5—77/80  
#2—78/80 #4—76/80 #6—78/80

  
Kenneth Medcalf A&P 452760326 IA
**Gafford Aero, Inc.**1833 Airport Dr., San Marcos, TX 78666  
(512) 396-3323 [info@gaffordaero.com](mailto:info@gaffordaero.com)**ENGINE Log** Date: 5/9/2023 N: 498HP Hobbs: 3160.4 TSMOH: 1075.4 TT: 3160.4

Accomplished an annual inspection IAW the scope and detail of FAR Part 43, Appendix D. Removed plugs, checked compressions, timing, exhaust and induction systems. Cleaned, gapped, tested the plugs, not rotated. Cleaned fuel screen, inspected fuel system. Mount, accessories, wiring, and hoses were inspected. Installed new J-9613-19 lower LORD shock mounts, and new J-9613-12 upper LORD shock mounts. Changed oil and filter, Aeroshell 15W/50. Inspected filter and screen, no metal noted. Inspected induction air filter. Ran engine and leak checked, no leaks noted.

**C/W AD 2015-19-07**, inspected fuel injection lines and hardware, no defects noted.I certify this engine has been inspected IAW an **annual** inspection and was determined to be in airworthy condition.

Compression: #1—79/80 #3—76/80 #5—78/80  
#2—78/80 #4—77/80 #6—77/80

  
Kenneth Medcalf A&P 452760326 IA
**ENGINE MODEL:**IO-540-K1GS  
ENGINE S/N: L-26510-48A  
REG. NO: N498HP  
WORK ORDER:  
BA-00911-06-2023**Bartelt Aviation, Inc.**1301 West Lafayette Street  
Sturgis, MI 49081  
Phone: 269-651-5431DATE: 3/12/2024  
AC TSN: 3188.6  
ENG TT: 3188.6  
TSMOH: 1083.5  
HOBBS: 3188.6**Engine Entries**

Performed Annual/100hr inspection on this Engine per guidelines of the PA-32R-301 Saratoga II HP Inspection Form P/N 230-1047. C/W Lycoming Service Bulletin 480E. Part I Oil and Filter Change and Part II Oil Filter Inspection (No contamination noted). C/W 100hr Oil Suction Screen Inspection and Cleaning. Installed new CH48110-1 Filter. Added 11qts Aeroshell 15w50. C/W 100hr Magneto to Engine Timing Inspection. C/W 100 Spark Plug cleaning, testing per MM. Installed new (12ea) P/N M674 Spark Plug Gaskets. C/W 100hr Fuel Servo Inlet Screen Inspection and Cleaning. C/W 100hr Engine Control Inspection and Lubrication. C/W 100hr Engine Drive Belt Inspection/Tension adjustments per MM. C/W 100hr Muffler, Heat Exchanger, and Baffling Inspection per MM. C/W 100hr Cylinder Compression Test #1-77, #2-76, #3-70, #4-77, #5-78, #6-77/80psi. Cleaned Engine Compartment. Lubricated Engine Controls. Installed new BA3 Air Filter Element. Performed ground operational runs and leak checks.... Performed 500 Hour Crankshaft Desluge. Installed New a/c Compressor drive belt p/n 37B19774-472 and Alternator drive belt p/n 37D22355. Tensioned belt per MM. Removed and reinstalled Propeller per Piper MM Chapter 61.... Cleaned engine compartment, Repaired and painted LH and RH aft baffling as needed.... Installed new propeller governor rod end (1ea) p/n 89307-000 and De-ice boot cover (1ea) p/n 553-182.... Secured Ignition wires and engine hoses on back of engine.... C/W AD 2015-19-07 Fuel Injector Lines Inspection IAW Textron Lycoming SB 342G. No discrepancies found. Next inspection due in 100 hours

Performed ground runs. Operational check satisfactory. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL / 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 3/12/2024

SIGNED:

Devvyn Fader, IA: 4226320

Work Order: BA-00911-06-2023

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Totals — Carry Forward