

RH

8-1-10

*The Standard*



ENGINE LOG

ASA-SE-1

ENGINE RECORD - GENERAL INFORMATION

2RE4

MANUFACTURER Avco Lycoming MODEL IO-520-B1A

SERIAL L-619-55 TYPE CERTIFICATE \_\_\_\_\_

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT N7230Y

MINIMUM OCTANE FUEL \_\_\_\_\_ OIL GRADE SUMMER \_\_\_\_\_ WINTER \_\_\_\_\_

MAGNETO TIME \_\_\_\_\_ POINT SETTING \_\_\_\_\_ FIRING ORDER \_\_\_\_\_

SPARK PLUG GAP \_\_\_\_\_

MFG. RECOMMENDED OVERHAUL AT \_\_\_\_\_ HOURS.

The Standard



ENGINE LOG

2RE7

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

DATE  
1989  
RECORDING  
TACH  
TIME  
TODAYS  
FLIGHT  
TOTAL  
TIME IN  
SERVICE

7-2-89 2547.9

A Annual inspection and service completed this date  
Compression checked #173 #276 #374 #474 changed  
oil and filter added 8 qts Acrosnell 15W-50 oil  
cleaned screens. cleaned and gapped spark plugs  
cleaned all fuel injectors. Installed new valve cover  
gasket #304. Bendix magneto AD 78-09-07R3  
Due. at 2687.1 Tschtime.

I certify that this ~~Engine-propeller~~  
has been inspected in accordance  
Annual inspection  
and has been determined to be in  
airworthy condition. Drew J. A. 1364/080

2RE8

DATE 19 <u>89</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
9-14-89	25	34.51	tach	Cleaned & tested #2 & 4 bottom and #1 & 3 top spark plugs after finding #2 bottom plug fouled. Ground run-up OK. Also swapped P-leads to their correct mags & labeled.
Signed: <u>Mark Shelby</u> <u>NO 5116</u>				for
<b>CORPORATE JETS MAINTENANCE</b>				Certificate No. 409-83 14600 No. Airport Drive, Scottsdale, AZ 85260
10-27-89	2604.78			CHANGED OIL, OIL FILTERS & CHECKED SCREENS <u>Scott McNam</u> <u>AGROSHELL 15-50</u>

2RE9

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
 ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
19 90				
NOV 10	1484			Removed cyl # 2 + # 4 Sent
	2605.07	Tach		OUT for Rework Reinstall Both cyls Lycon
				W.O, 4188 Attached Ground Run ops ok
				Ok Bud Lynn AIP 505893647
				insp. + Test Run <del>OK</del> <del>WWR604KR</del>
			AD	87-10-06 <sup>RI</sup> N/A old PTV Rocker Arms <sup>insp.</sup>
				Installed ALSO serviced w Shell
				NON Det 50W Bud Lynn AIP 505893647
2/21	2658.96			CHANGED OIL, OIL FILTER, CLEANED AND INSPECTED OIL SCREENS.
				REPLACED WITH AEROSHELL 15W-50 Scott McGowan

WESTWIND AVIATION  
 732 W. DEER VALLEY  
 PHOENIX, AZ 85127

WESTWIND AVIATION  
 32 W. DEER VALLEY  
 PHOENIX AZ 85127

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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08-2-90 ——— 2722.6 TSMOH: 424.4

1. INSPECTED AND SERVICED 1AW PIPER 753645

2. COMPRESSION CHECK:

#1-77/80 #2-78/80 #3-76/80 #4-79/80

3. C/W AD 78-09-07 R3 ON BOTH MAGNETOS, PIN 51360-30, DUE AGAIN AT 3222.6

a. LEFT SERIAL: 1238726 DR

b. RIGHT SERIAL: 846111

4. THE IMPULSE ASSEMBLY, 10-59474, WAS RE-PLACED WITH A NEW ITEM ON MAG 846111.

5. C/W AD 90-04-06 (02-15-90) BY INSPECTION, DUE FURTHER ACTION AT OVERHAUL OR GOVERNOR OIL-LINE REMOVAL.

CONTINUED ON PAGE 2 RE 10

2REH

DATE 1990	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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6. IGNITION LEADS REROUTED AND RE-TIED TO  
BE CLEAR OF FUEL LINES.

7. ENGINE HAS BEEN RUN FOR A LEAK CHECK AND A  
POWER CHECK.

I certify that this engine has been inspected  
in accordance with a ~~an~~ 100 HOUR/ANNUAL  
inspection and was determined to be in an airworthy  
condition.

09-01-90

27226

2732.5

Date

Total Time

Tach Time

~~K. Pearce~~  
K. PEARCE, A&P, 22309491A

PEARCE AIRCRAFT SERVICE, INC.

2 RE 12

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Sept. 10, 1991	Tach Time: 2747.35			Replaced Lt-magneto with overhauled unit
				P/N 10-51360-37, S/N G249129DR. Neil Dulichiff A: 0484664369
10-12-91	2788.7		2748.7	
				1. INSPECTED AND SERVICED 1AW PIPER 753645
				2. COMPRESSION:
	#1 - 77/80		#3 - 74/80	
	#2 - 76/80		#4 - 74/80	
				3. CHANGED OIL. SERVICED 7 QTS OF PHILLIPS XC 20W50
				4. REPLACED THE CH 48110 OIL FILTER WITH NEW.
				5. ENGINE WASHED.
				6. ENGINE RAN FOR A POWER CHECK.

Wearle AIP 22309491A



2 RE 13

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				I certify that this aircraft engine has been inspected in accordance with a/an <u>100HR/ANNUAL</u> inspection and was determined to be in airworthy condition.
<u>10-2-91</u>		<u>2748.7</u>	<u>2748.7</u>	
Date		Total Time	Total Time	
		<u>PEARCE</u>		
		<u>PEARCE, A&amp;P, 2230949 1A</u>		
		<u>PEARCE AIRCRAFT SERVICE, INC.</u>		

2RE14

DATE 19 <u>92</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES)
12 DEC	2756.7	TSMOH	458.5	<p>① WASHED AND CLEANED ENGINE ② CW AD 90-04-06-R1 by REPLACEMENT OF OIL COOLER LINE ③ CLEANED SPARK PLUGS ④ CHECKED TIMING AT 25° BTDC. ⑤ CHECKED OIL SCREENS ⑥ REPLACED OIL FILTER WITH CH 48110 NEW FILTER ⑦ RESTRUCTURED BRIGGS WITH 2pts PHILIPS 20-50 WT OIL ⑧ REMOVED, WELDED AND RE-INSTALLED ENG CONTROL BRACKET ⑨ COMPRESSION TEST RESULTS: #1 75/80 #2 75/80 #3 76/80 #4 78/80. REMOVED AND REPLACED PROP SEAL RUN ENGINE AT FULL POWER AND LEAK CHECKED OIL. ADs CURRENT THRU 92-22.</p>
RT. PROP:	458.7	SOH		<p>I CERTIFY THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.</p>
				<p>ALLEN STRUTHERS A &amp; P 543466542 IA</p>

*Allen Struthers*

12 Dec 92

SIGNATURE

DATE

2RE15

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES)
6/24/93	2765.10			Left side exhaust stack CRACKED approx. 8" from ENB. - Removed Exhaust - welded & Reinstalled Jimmy AEP 346320600
7-30-93	2766.10			AD 93-02-05 C/W by inspection Per Lc SR#342A dated 5-26-92 - Meets all specifications Rescribed in SR - Pressures checked for leaks - OK - Next Due at Annual Jimmy AEP 346320600

HAS BEEN

I CERTIFY THIS

INSPECTED IN

INSPECTED IN

ALLEN BROTHERS

INSPECTED IN

INSPECTED IN

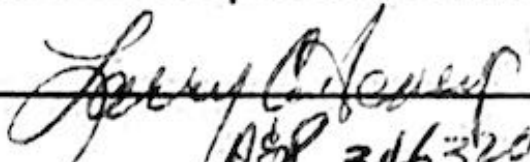
INSPECTED IN

100

100

DATE 1994	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	2769.22	- TS MDH	472.22	Cleaned and gaped spark plugs Compression #1- 78/80 #2 <sup>79</sup> / <sub>80</sub> #3 <sup>78</sup> / <sub>80</sub> #4 <sup>78</sup> / <sub>80</sub> CW NO 93-02-05 119W SB #342A by visual inspection with no defects noted. AOs current. Thrust 93-25. Prop Run at full power and max checked - OK.
				<p>THIS <u>airplane</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 hr / annual</u> INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.</p> <p>ALLEN STRUTHERS A &amp; P 543466542 IA</p> <p><u>Allen Struthers</u> <u>1-18-94</u> SIGNATURE DATE</p>
	Prop.	SOH	472.22	

RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2772.55			<del>Entry made by mistake</del>
			<del>XXXXXXXXXX</del> 346320600
2777.42			① CHANGED OIL - Replaced with 7 qts. Phillips KC 20W50
			② Oil Screens Check - Replaced - Satisfied
			③ Replaced Oil Filters
			④ Clean & Gap Spark Plugs
			⑤ Gen. Belt Tightened
			⑥ Remove both MAGS for Insp. - Replace - Time Engine
			⑦ Dress Prop
			⑧ Tighten bolts on oil sump
			⑨ Clean Engine - Run up - Check for oil leaks.

  
 A&P 346320600

DATE 19 95 RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

2-18 2777.42 JTSM.04 480.42 DRIVEN & RECHECKED OK, CHECKED SCREWS WITH NO DEFECTS NOTED. COMPRESSORS AS FOLLOWS: #1 7/80 #2 7/80 #3 7/80 #4 7/80. C/W AO 93-02-05 BY VISUAL INSPECTION NO DEFECTS NOTED. C/W AO 94-17-11 BY INSPECTIONS (PCU (SQUARED AO 94-01-03 AND 73-07-04) ENGINE RUN & LEAN CHECKED WITH NO DEFECTS NOTED. A/C CHECKED THRU 95-02. RWBME

I CERTIFY THIS 480.42 HAS BEEN INSPECTED IN ACCORDANCE WITH A PCU INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.

PROPI SOH 480.42 ALLEN STRUTHERS A & P 543468542 IA  
 Allen A. Struthers 2-18-95

NAME SIGNATURE DATE

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
 ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES)

DATE 19 96  
 RECORDING TACH TIME  
 TODAY'S FLIGHT  
 TOTAL TIME IN SERVICE

03-09 2777.81 - TTSMOH

481.40 Replaced #3 FUEL INJECTOR  
 Reserveced OIL with 7qt's Phillips X-CO-50  
 changed OIL filter. Replaced all FUEL lines  
 in eng compartment (4 ea) Compression #1-77 #2-77  
 #3  $\frac{76}{80}$  #4  $\frac{77}{80}$  CW A1 93-02-05. G/W 513 518C Per  
 SI 1423. 500hr inspection of MADS G/W BY HOLMES  
 AVIATION. ENG RUN & LEV-OIL-NO Defects noted.

I CERTIFY THIS ENGINE HAS BEEN  
 INSPECTED IN ACCORDANCE WITH A Aviation (100hr)  
 INSPECTION AND HAS BEEN FOUND TO BE IN  
 AIRWORTHY CONDITION.

ALLEN STRUTHERS A & P 543466542 IA

DATE SIGNATURE SIGNATURE DATE  
 [Signature] 03-09-96

DATE 1996	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-9-96	2777.81			Replaced Fuel INT. LINE ON #3 Cylinder A/c Run Up - Pressure Check OK Part # Lye. LW-12098-0-210 Jimmy C. Haney AEP 346320600
07-18-96				AD 96-12-071 Supercedes 78-09-07-R3 both R & L MAG. had 500 HR. Insp. At 03-09-96 Tach time 2777.81 HRS. Next due 3277.81 HRS. Jimmy C. Haney AEP 346320600
				<p style="text-align: center;">ATTENTION: THIS AIRCRAFT HAS BEEN FOUND TO BE IN UNFIT CONDITION FOR FLIGHT.</p>
				<p style="text-align: center;">ATTENTION: THIS AIRCRAFT HAS BEEN FOUND TO BE IN UNFIT CONDITION FOR FLIGHT.</p>
				<p style="text-align: center;">ATTENTION: THIS AIRCRAFT HAS BEEN FOUND TO BE IN UNFIT CONDITION FOR FLIGHT.</p>
				<p style="text-align: center;">ATTENTION: THIS AIRCRAFT HAS BEEN FOUND TO BE IN UNFIT CONDITION FOR FLIGHT.</p>
				<p style="text-align: center;">ATTENTION: THIS AIRCRAFT HAS BEEN FOUND TO BE IN UNFIT CONDITION FOR FLIGHT.</p>



4

RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
793.56	TSMOH 49	7.15	<p>Replaced all plugs with new Rem 40E, compression test results. #1 <math>\frac{27}{80}</math> #2 <math>\frac{20}{80}</math> #3 <math>\frac{12}{80}</math> #4 <math>\frac{15}{80}</math>. (C/W 1A)</p> <p>43-02-05 by VISUAL INSPECTOR IAW 513-3424 with no defects noted. AO Log updated. Lubed acc eng. components. ENG ground run and LEAK checked - OK.</p>
			<p>I CERTIFY THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>PERMANENT</u> INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.</p>
			<p><b>ALLEN STRUTHERS A &amp; P 54348542 IA</b></p> <p><u>Allen A. Struthers</u> <u>04-20-97</u> SIGNATURE DATE</p>

JRE22

DATE 19 <u>98</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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04-16	2807.31	ITS MONTH	511.39	<p>COMPRESSION (HOLD) 1-<math>\frac{75}{80}</math> 2-<math>\frac{78}{80}</math> 3-<math>\frac{80}{80}</math> 4-<math>\frac{80}{80}</math>            O/W AD 93-02-05 BY VISUAL INSPECTION WITH            NO DEFECTS NOTED. AD'S COULDEST THRU 98-08.            ENGINE RUN ROAD OPS V GOOD.</p>
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I CERTIFY THIS ENGINE HAS BEEN  
 INSPECTED IN ACCORDANCE WITH A ANNUAL  
 INSPECTION AND HAS BEEN FOUND TO BE IN  
 AIRWORTHY CONDITION.

ALLEN STRUTHERS A & P 543466542 IA

Allen G. Struthers

SIGNATURE

4-16-98

DATE

RE 23

RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2507.31			<p>Reserviced with 8 Qts. Phillips X-C 20W50 oil -            Changed oil Filter.            Jerry C. Dewey AEP 346320600</p>
2814.12			<p>W Left Rear Exhaust stack cracked - Exhaust welded            by Specialized Aerospace Welding #0# 55589 - Yellow            Tagged. Engine Serviced with Phillips X-C 20W50            oil. Oil Filter Replaced - New engine battery            Seal installed - Spark Plugs Cleaned &amp; Gapped.            Engine Run Up, Check Satisfactory.            New Oil Cooler Hose installed Pipe Part # 565-139            Jerry C. Dewey AEP 346320600</p>

2RE24

DATE 19 <u>99</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
5-1-99	2814.12	TTS MOH:	518.20	<p>COMPRESSION CHECKED #1-<math>\frac{75}{80}</math> #2-<math>\frac{76}{80}</math>  #3-<math>\frac{78}{80}</math> #4-<math>\frac{76}{80}</math> AD 93-02-05 (FUEL INJECTION LINES)  COMPLETED BY VISUAL INSPECTION - NO DEFECTS NOTED  AIDS CURRENT THRU 99-09. ENGINE GOOD AND  AND OPERATIONAL CHECKED GOOD.</p>
				<p>I CERTIFY THIS <u>ENGINE</u> HAS BEEN  INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u>  INSPECTION AND HAS BEEN FOUND TO BE IN  AIRWORTHY CONDITION.</p> <p>ALLEN STRUTHERS A &amp; P 543466542 IA</p> <p><u>Allen A. Smith</u> <u>5-1-99</u>  SIGNATURE DATE</p>

2 RE 25

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7/8/99	2815.88			<p>Installed Gulf Coast Exhaust Extensions 1AW            - STC SA 2648 SO DRAWING # 8990 dated            Sept. 11, 1989 - Weight &amp; Balance Ammended            and 337 Completed. Test Flow OK</p> <p><i>Jerry A. Murphy</i>            A&amp;P 346320600</p>
6-11-00	2531.98			<p>Serviced Engine with 8 qts. Phillips XC            20W50 O.I.L. - Tightened Valve            Covers - Repositioned CLAMP ON FUEL INJ.            LINE.</p> <p><i>Jerry A. Murphy</i> 346320600 A&amp;P</p>

RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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2821.98	TTS/MDH	526.06	<p>Compression #1 <math>\frac{75}{80}</math> #2 <math>\frac{75}{80}</math> #3 <math>\frac{75}{80}</math> #4 <math>\frac{75}{80}</math></p> <p>AD 93-02-05 (FUEL EJECTOR LINES) completed</p> <p>By VISUAL INSPECTION - NO DEFECTS NOTED ADS</p> <p>CURRENT TRK B/W ONLY 2000-11 B/V6 GROUND</p> <p>RUN AT ALL POWER SETTINGS - LBTAL &amp; QPS CHECKED</p> <p>SATISFACTORY.</p>
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I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.

ALLEN STRUTHERS A & P 543466542 IA

Allen Struthers  
SIGNATURE

6-11-2000  
DATE

21

E RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

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1 2828.20 / 2828.20 TTSMOH 532.63 Compression # 1. <sup>75</sup>/<sub>80</sub> 2. <sup>74</sup>/<sub>80</sub> 3. <sup>76</sup>/<sub>80</sub> 4. <sup>76</sup>/<sub>80</sub> AD 93-02-05 c/w by VISUAL INSPECTION with no defects noted, AD's current thru 2001-14 BIVE GROUND RUN AT ALL POWER SETTINGS with no defects noted

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual (10hr) INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.

ALLEN STRUTHERS A & P 543486542 IA

Allen Struthers 7-1-2001

SIGNATURE DATE

DATE <i>2002</i>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<i>9-28</i>	<i>2846.60</i>		<i>551.03</i>	<i>COMPRESSION #1 78/80 #2 76/80 #3 76/80 #4-76/80</i>
				<i>AD 93-02-05 (PISTONS) C/W BY VISUAL INSPECTION</i>
				<i>WITH NO DEFECTS, AD'S CURRENT THRU 2002-18.</i>
				<i>ENG RUN &amp; OPS R WITH NO DEFECTS NOTED</i>
				<p>I CERTIFY THIS <u>ENGINE</u> HAS BEEN  INSPECTED IN ACCORDANCE WITH A <u>100 HR</u>  INSPECTION AND HAS BEEN FOUND TO BE IN  AIRWORTHY CONDITION.</p>
				<b>ALLEN STRUTHERS A &amp; P 543466542 IA</b>
				<i>Allen Struthers</i>
				<b>SIGNATURE</b>
				<i>9-28-02</i>
				<b>DATE</b>



RECORDING BACK TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS (ENTRIES MUST BE ENDORSED WITH NAME RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2040			<p>OIL DRAINED &amp; REPLACED WITH 5 QT. OF PHILLIPS XC 20W50 OIL. - OIL FILTER REPLACED - REPLACE BRACKET AIR FILTER - CLEANED &amp; GAPPED PLUGS - CHECKED MAG. TIMING - ENGINE RAN &amp; CHECKED FOR LEAKS - OK</p>
			<p>Jerry C. Henry AEP 2674548</p>

DATE 2003 12	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES)
24703	2846.60 <del>2864.16</del>			AD 96-09-10 oil pump impellers has been C/W @ engine overhaul Dated 04-5-87 AD came out in 1982, old impeller gears referenced would not have been available in 1987 _____ William H. <del>H</del> 1A526872836

2RE30

NG	TODAYS FLIGHT	TOTAL TIME IN SERVICE <i>TSMIC</i>	<b>DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS</b> ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12	-	555.55	<b>ENGINE COMPRESSION:</b> #1 - 73/80 #2 75/80 #3 76/80 #4 74/80 REBLENDED ENGINE WITH 8 QTS PHILIPS RED 20W50, CHANGED OIL FILTER (CH 48110) CLEANED & GAP PLUGS AD 93-02-05 Q/W BY VISUAL INSPECTION WITH NO DEFECTS. ADS CURRENT THRU 2003-22-12. ENGINE RUN & OPS CHECKED WITH NO LEAKS OR DEFECTS
			I CERTIFY THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL (100hr)</u> INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION.
			<b>ALLEN STRUTHERS A &amp; P 543466542 IA</b>
			<u>Allen A. Struthers</u> <u>11/8/2003</u>
			<b>SIGNATURE</b> <b>DATE</b>

DATE 2000 17	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE TSMCH	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2/9/04	2858.0		562.43	<p>ENGINE COMPRESSION: #1- 75/80 #2 75/80 #3- 74/80 #4 75/80</p> <p>CLEANED &amp; REGRIND SPARK PLUGS. AD 93-02-05 (EXPIRED) CW</p> <p>BY SB3424 WITH NO DEFECTS NOTED AD'S CURRENT</p> <p>THAN BI-WEBBLY 2004-24. ENGINE RUN AND LEAK</p> <p>CHECKED WITH NO DEFECTS NOTED.</p>
				<p>I CERTIFY THIS <u>ENGINE</u> HAS BEEN</p> <p>INSPECTED IN ACCORDANCE WITH A _____</p> <p>INSPECTION AND HAS BEEN FOUND TO BE IN</p> <p>AIRWORTHY CONDITION.</p>
				<p>ALLEN STRUTHERS A &amp; P <sup>1528484</sup> <del>IA</del> IA</p> <p><u>Allen A. Struthers</u> <u>12/9/2004</u></p> <p>SIGNATURE DATE</p>

2 RE 32

TODAYS FLIGHT	TOTAL TIME IN SERVICE TTSMDH	<b>DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS</b> ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
-	566.77	ENGINE COMPRESSION: #1 7/80 #2 7/80 #3 7/80 #4 7/80 ALL PULGS REMOVED & REGRAPPED.
		OIL NEIGHOR AND FILTER REPLACED, ETC.
		SPARKS W/ 8 qts OF PHOENIX 20W-50
		OIL BU 93-02-05 (W) 1AW 53 342A W/ID
		NO NEITHER METAL, ENGINE RUN AT ALL
		POWER SETTINGS. OPERATIONAL CHECK
		AND LATER CHECKED SATISFACTORILY
		AXIS CURRENT THRU BI-METER, 2006-09
		I CERTIFY THAT THIS ENGINE HAS BEEN
		INSPECTED THRU AN AIRMAN'S INSPECTION AND
		FOUND TO BE IN AN AIRWORTHY CONDITION.
		Allen A. Smith, 1528484 IA 01/10/2

DATE 2007	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME <del>IN</del> <del>SERVICES</del> 5.10.11	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
101	2865.03		569.46	<p>COMPRESSION CHECK #1 <math>\frac{75}{80}</math> #2 <math>\frac{75}{80}</math> #3 <math>\frac{75}{80}</math>  #4 <math>\frac{75}{80}</math> ENGINE RUN AT ALL PWR SETTINGS  AND LEAKS CHECKED - O.K. ALL AD'S CURRENT  THRU Bi-Wire 2007-04. I CERTIFY THAT THIS  ENGINE HAS BEEN INSPECTED IN AN ANNUAL  INSPECTION AND FOUND TO BE IN AN  AIRWORTHY CONDITION. AD 93-02-05 c/w - NO  DEFECTS NOTED.</p> <p>Alan A. Smith  1528484 IA</p>

2RE34

TOTAL  
TIME IN  
SERVICE

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Installed New EGT Probe. ALCOR EGT Probe  
TYPE K P/N 86255

PC: 652954 LOT: 10-14278



194300064

P/N: 86255  
LOC: 17GA

4/4/20  
Lamp ready  
APP  
2674548

86255 ALCOR EGT PROBE TYPE K

*Jerry C. [Signature]*  
APP/2674548

Installed new VACUUM PUMP - See page 2 RE 31e

DATE 2008	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES)
3/17	2869.24		573.67	<p>AD 93-02-05 ACCOMPLISHED IAW SB 342A - NO DEFECTS  NOTED. (COMPRESSOR) CK AS FOLLOWS: #1 <math>\frac{75}{80}</math> #2 <math>\frac{75}{80}</math>  #3 <math>\frac{77}{80}</math> #4 <math>\frac{75}{80}</math> LEAKS RUN AT ALL POWER SETTINGS  NO DEFECTS NOTED <del>AD</del> AD: 93-02-05 COMPLETE  IAW SB 342A. ALL A/D'S CURRENT THRU 2-WEEKLY  2008-08. I CERTIFY THAT THIS ENGINE HAS  BEEN INSPECTED IAW A ANNUAL INSPECTION AND  FOUND TO BE IN A AIRWORTHY CONDITION.  Allen G. Smith - 1528484 IA</p>
3/26/08	2869.24			<p>Removed &amp; Replaced with O/H VACUUM PUMP  PART # 211CC S/N # 121171 - A/C Rnd Up CK SAT</p>
5/28/09	2872.64		705.21	<p>NO LEAKS Jim C. Henry A#P 2674548  Changed oil &amp; Filter - 8qt. Phillips/Champion Filter</p>



TODAYS  
FLIGHT

TOTAL  
TIME IN  
SERVICE

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

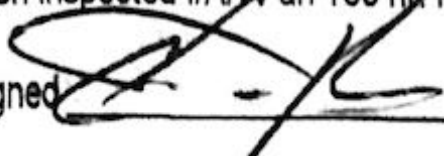
STARTER HANGING UP. - STARTER REMOVED  
SENT TO AEROTECH OF LOUISVILLE FOR OVERHAUL.  
WORK ORDER # 99249 - MAJOR OVERHAUL BY FAA  
CERTIFIED REPAIR STATION # PU4R453M.  
OVERHAULED STARTER RETURNED AND REINSTALLED  
ON RT. ENGINE ON 7/31/10 - OPERATIONAL OK.

END


Jerry P. Henry AEP 2674548

DATE 2011 10	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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**Scotchman Aviation Service. 6200 Zane Ave N. Brooklyn Park, MN. 55429**  
 N7230Y Piper PA-30 S/N 30-254; IO-320 B1A S/N L619-55  
 09/01/2011 Right Tach 2888.23; Etl 2297.96; Esch 590.27.  
 Performed 100 hr. inspection as per Piper Service Manual. Removed plugs and cleaned, gaped and rotated. Compression check #1 75/80 #2 77/80 #3 76/80 #4 77/80, adjusted right mag timing 2 degrees and set both mags at 25 degrees BTDC. Drained oil and removed filter, cut open and inspected no metal found, installed new CH48110 filter and serviced with 7 qts. Phillips X/C 20W50. Removed fuel pump and installed new LW15473 pump, tightenend rocker box covers and washed down engine. Researched AD's thru this date, run-up leak check good. I certify that this engine has been inspected I/A/W an 100 hr. inspection and was found to be in airworthy condition.

Signed  AP2661552

**Scotchman Aviation Service. 6200 Zane Ave N. Brooklyn Park, MN. 55429**  
 N7230Y Piper nPA30 S/N 30-254  
 11/07/2011. RT Engine Tach 2892.37. Removed right engine fuel servo for overhaul, see Airflow Performance W.O. 5023. Reinstalled fuel servo with new gaskets, run-up leak check good.

Signed  AP2661552

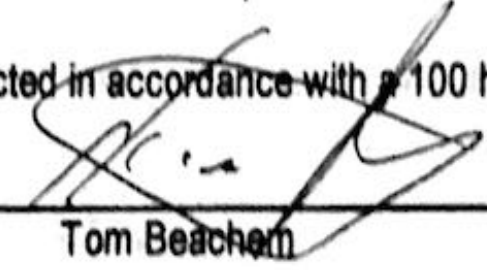
2RE40


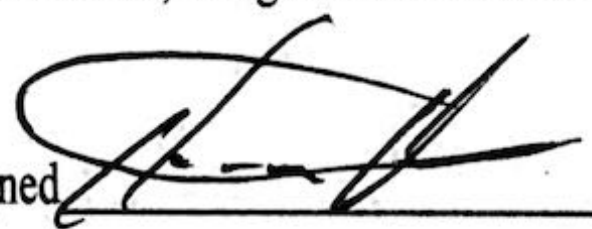
RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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N7230Y Piper PA30 S/N 30-254, 05/30/2012 Right Tach 2899.57  
 Removed right engine crankshaft oil seal. Installed new seal, Part No. LW-13792.

Signed  A&P 2661552 IA

N7230Y Piper PA-30; S/N 30-254  
 11/01/2012 Rt Eng 2916.94; Etl 2326.67; Esch 619.68  
 Performed 100hr inspection I/A/W Piper Service Manual, drained oil and removed filter, cut open and inspected no metal found, installed new filter and serviced with 7 qts Phillips X/C 20W50. Performed compression check. #1 78/80 #2 76/80 #3 76/80 #4 74/80, checked mag timing and adjusted right mag 1 degree left mag 2 degrees to 25 degrees B.T.D.C. cleaned, gaped and rotated plugs. Washed down engine, checked travel stops and lubed controls. Researched AD's thru this date, run-up leak check good.  
 I certify that this engine has been inspected in accordance with a 100 hr. inspection and was determined to be in airworthy condition.

Signed  A&P 2661552 IA  
 Tom Beachem

DATE 2014 <del>19</del>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
05/08/2014				<p><b>N7230Y Piper PA30; S/N 30.254</b>  <b>5/8/2014 Rt Eng Tach 2934.94; Ett 2344.86; Esoh 637.17; Ptt Unk; Psoh 637.87</b></p> <p>Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 72/80 #2 76/80 #3 76/80 #4 76/80 checked mag timing at 25 degrees B.T.D.C. Drained oil and removed filter cut open and inspected no metal found, reinstalled new filter and serviced with 7 qts Phillips X/C 20W50. Removed and replaced rocker box cover gaskets P/N RG-75906-SP. Run up leak checked good. I certify that this engine has been inspected I/A/W an 100 hr inspection and was found to be in airworthy condition. Tom Beachem AP2661552IA</p> 
09/24/2014				<p><b>N7230Y Piper PA-30 S/N 30-254 IO-320-B1A 09/24/2014 Right Tach. 2945.54</b>  Removed starter right engine, Delco-Remy Model 1109511, and installed Sky-Tec Model 149NL SN FN-3014105.  Operational check OK.  Equipment List, Weight and Balance amended.</p> <p>Signed  A&amp;P 26615521 IA</p>

**N7230Y Piper PA30; S/N 30-254**

**June 17, 2015 Rt Eng Tach 2962.27; Ett 2372.19; Esoh 664.5; Ptt Unk; Psoh 665.2**

Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 70/80, #2 74/80, #3 74/80, #4 74/80, checked magneto timing at 25 degrees B.T.D.C. Drained oil and removed oil filter, cut open and inspected no metal found installed new CH48110-1 oil filter and serviced engine with 7 qts Phillips X/C 20W50. Tightened rocker box covers run up & leak check good. I certify that this engine has been inspected I/A/W an 100 hr. inspection and was determined to be in airworthy condition.

Tom Beachem AP2661552IA. 

**N7230Y Piper PA30; S/N 30-254**

**July 1, 2016 Rt Eng Tach 2994.42; Ett 2404.34; Esoh 696.65; Ptt Unk; Psoh 697.35**

Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 70/80, #2 70/80, #3 74/80, #4 70/80, checked magneto timing at 25 degrees B.T.D.C. Drained oil and removed filter, cut open and inspected no metal found installed new CH48110-1 oil filter and serviced engine with 7 qts Phillips X/C 20W50. Serviced prop dome pressure to 50 psi, run up & leak check good. I certify that this engine has been inspected I/A/W an 100 hr. inspection and was determined to be in airworthy condition.

Tom Beachem AP2661552IA. 



DAYS  
NIGHT

TOTAL  
TIME IN  
SERVICE

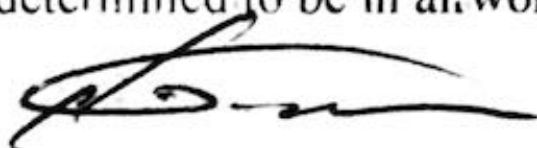
**DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS**  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF  
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

**N7230Y Piper PA30; S/N 30-254**

**10/22/2018 Rt Tach 3033.75; Ett 2443.67; Esoh 735.98; Ptt Unk; Psoh 736.68**

Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 72/80, #2 74/80, #3 74/80, #4 74/80, checked magneto timing at 25 degrees B.T.D.C. Removed and replaced #2 and #4 exhaust gaskets. Drained oil and removed filter, cut open and inspected no metal found installed new CH48110-1 oil filter and serviced engine with 7 qts Phillips X/C 20W50. I certify that this engine has been inspected I/A/W an 100 hr. inspection and was determined to be in airworthy condition.

Tom Beachem AP26615521A.

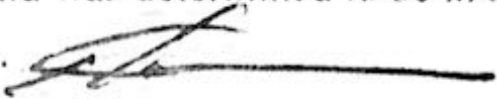
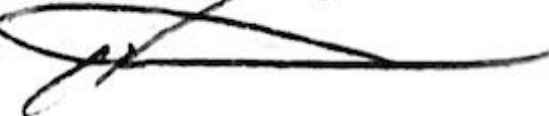


**N7230Y Piper PA30; S/N 30-254**

**7/1/2020 Rt Tach 3050.34; Ett 2460.26; Esoh 752.57; Ptt Unk; Psoh 753.27**

Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 68/80, #2 72/80, #3 68/80, #4 74/80, checked magneto timing at 25 degrees B.T.D.C. Drained oil and removed filter, cut open and inspected no metal found installed new CH48110-1 oil filter and serviced engine with 7 qts Phillips X/C 20W50. I certify that this engine has been inspected I/A/W an 100 hr. inspection and was determined to be in airworthy condition. Tom Beachem AP26615521A.



DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
9/01/2021				<p>N7230Y Piper PA30; S/N 30-254            9/1/2021 Rt Tach 3051.42; Ett 2461.34; Esoh 753.65; Ptt Unk; Psoh 754.35</p> <p>Performed 100 hr inspection I/A/W Piper Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 66/80, #2 72/80, #3 66/80, #4 72/80, checked magneto timing at 25 degrees B.T.D.C. Run up ops check good I certify that this engine has been inspected I/A/W an 100 hr. inspection and was determined to be in airworthy condition</p> <p>Tom Beachem AP26615521A. </p>
7/05/2023				<p>Tom's Aviation Service LLC. 17 Fairway Dr. Monticello, MN. 55362</p> <p>N7230Y Piper PA30; S/N 30-254            7/5/2023 Right Tach 3060.30; Ett 2470.29; Esoh 762.60; Ptt Unk; Psoh 763.3</p> <p>Performed 100 Hr. inspection I/A/W Piper Service Manual. Removed plugs cleaned, gaped and rotated, performed compression check #1 68/80; #2 70/80; #3 68/80; #4 70/80. Checked mag timing at 25 degrees B.T.D.C. Drained oil and removed filter cut open and inspected no metal found. Installed new CH48103 filter and serviced with 7 qts Phillips X/C 20W50 run up leak check good. I certify that this engine has been inspected I/A/W an 100 Hr. inspection and was found to be in airworthy condition.</p> <p>Tom Beachem AP26615521A </p>