

ENGINE LOG

ENGINE DESCRIPTION

Mfgr.	LYCOMING	Place	WILLIAMSTOWN, PA	Date	1974
Type		Model	O-320-E30	Serial No.	L37741-27A
Rated H. P.		Maximum H. P.		Weight (Dry)	
Rated R. P. M.		Maximum R. P. M.		Oil Pressure	
Bore		Stroke		Displacement	Cu. In.
Compression Ratio		Supercharger Ratio		Gear Ratio	
Propeller	SENSENICH	Hub Design	94DM655-054	Hub Serial No.	K37993
Blade Design		Blade Serial No.		Blade Serial No.	
Maximum Hub H. P.		Maximum Blade H. P.			
Pitch		Diameter		Length	
Owners Name					
Address		City		State	

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
1974 6/3									105 Prod. Flight Time woods		
7-2-74									tach 42.2 installed E.G.T. indicator & probe. L. Emmann A 271474017		
7-3-74									tach 51.6 50 HR CHK changed oil, 8 qts shell w-50 used. checked prop, sph system & brake fluid. L. Emmann A 271474017		
BROUGHT FORWARD											
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
	<p>changed oil & cleaned screen. 8 qts Shell w-50 used. Checked mag timing & cleaned plugs. Inspected sph. system & prop. All eng components inspected. Compress chk.</p>										
	① 74		② 74		③ 74		④ 74		<div style="border: 2px solid black; padding: 5px;"> <p>SHAMROCK AIRWAYS Hayward, Calif.</p> <p>This <u>Eng</u> has been inspected in accordance with a <u>100 HR</u> inspection and has been determined to be in airworthy condition.</p> <p>Total time <u>99.6</u> Tach time <u>99.6</u> S.M.O.H. <u>99.6</u> W. O. # <u>967</u> Date <u>8-20-74</u> Signature <u>L. Emmon</u></p> </div>		
	# EP 1474017										
9-13-74			Tach 151.0				50 HR CTR.				
<p>changed oil, 8 qts shell w-50 used. Installed oil quick drain. Inspected prop & eng.</p>											
BROUGHT FORWARD											
L. Emmon											
# 211474007											
TOTALS											

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DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
9-27-74									Tach 176.5		
									Replaced crankshaft seal this date.		
										<i>J. Emmons</i>	
										<i>A 281474017</i>	
									changed oil & cleaned screen.		
									5 qt. SAEW-50 used. checked		
									mag timing & cleaned plugs.		
									Prop, exhaust system, &		
									eng inspected.		
									compressor chkl.		
									① 74 ② 72 ③ 74 ④ 74		
BROUGHT FORWARD											
TOTALS											

SHAMROCK AIRWAYS
Hayward, Calif.

This Eng has been inspected in accordance with a 100HR inspection and has been determined to be in airworthy condition.

Total time 198.4
Tach time 198.4
S.M.O.H. 198.4
W. O. # 998
Date 10-7-74
Signature *J. Emmons*
A 281474017

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
6/24/79									Annual Insp Oil Changed Fettla Changed Carp Checked Plug Checked & Checked Throttle Trip insured 68-501 Control Checked Engine Checked for leak & condition Consolidated Aircraft at Vad Inc 1091, 560 hrs. Total time L A I 81973-41		
										101 HRS SMOH	
									Engine		
									I certify this aircraft has been inspected and <u>annual</u> inspe- tion on <u>annual 6/24/79</u> in an airworthy condition.		
									L A I 81973-41		
									Auth. Mech. _____		
BROUGHT FORWARD											
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
3-3-97									100 HR INSPECTION		
									TSMOH 214	TACH 1205	
<p>NEW 1 PC VENTURI P/N FCT FLO AND NEW METAL FLOAT KIT P/N 666-915 INSTALLED IN CARB PER PRECISION AIRMOTIVE CORP MANUAL #MSA FSM. NEW SLICK MAGS INSTALLED M/N 4370, S/N 96042109 AND M/N 4371, S/N 96041656. SET IGNITION TIMING IAW LYCOMING MANUAL. INSTALLED HARRISON OIL COOLER P/N 8526250 (337 FORM ATTACHED TO ENGINE RECORDS) THIS ENGINE HAS INSTALLED PART NUMBER 60747 ALUMINUM OIL PUMP GEAR. REPLACEMENT DUE AT NEXT OVERHAUL. COMPRESSION CHECK #1 78/80 #2 76/80 #3 92/80 #4 74/80 ENGINE AD COMPLIANCE REPORT ATTACHED. James A Mann APP 535468013</p>											
BROUGHT FORWARD											
TOTALS											


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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
3-30-97			12	55					c/w 68-0501 MUFFLER INSPECT. DUE AT TACH 1305		
6-10-97			13	03					c/w 68-05-01 muffler inspect DUE AT TACH 1353		
4-10-98									TACH 1337 Eng IT N46 Small 346		
c/w AD 68-05-01 MUFFLER inspect, Next Due AT TACH 1387 Compression #1 $\frac{78}{80}$ #2 $\frac{78}{80}$ #3 $\frac{78}{80}$ #4 $\frac{78}{80}$, IGN. TIMING set 1/4W hyc MANUAL, Replaced All Push Tube Seals, Replaced All Rocker Cover Gaskets, Clean + GAY SPARK Plugs, CHANGED AIR FILTER Element, CHECK CONTROLS TO STOPS, Serviced with 7 QTS of AeroShell 80, FILTER, Engine Run test OK, ENGINE AD Compliance Report attached to AIRCRAFT logs. I certify THAT THIS ^{ENGINE} AC HAS been inspected 1/4W 100HR inspection and Determined to be in Airworthy Condition.											
James A. Mann AEP 535468043 — END —											
4-10-98									c/w 76-07-12 (Benoix switch) next DUE AT TACH 1437	James A. Mann	564-70-0822 CP
BROUGHT FORWARD											
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
6-10-98	TACH	1350	0	0	0	0	0	0	muffler inspect OK ^{Next Due at 1400 TACH}		
12-20-98	TACH	1401	0	0	0	0	0	0	muffler inspect OK ^{Next Due at 1450 TACH}		
03-18-99	TACH										
04-01-99	TACH	1420							ENG TT 1229 - SMOH 429		
COMPLIED WITH AD 68-05-01 MUFFLER INSPECT. NEXT DUE AT TACH 1470											
COMPRESSION CHECK #1 $\frac{71}{80}$ #2 $\frac{72}{80}$ #3 $\frac{76}{80}$ #4 $\frac{78}{80}$. IGNITION TIMING											
SET 1AW LYC M/M. CLEAN, GAP SPARK PLUGS. REPAIRED #4 LOWER											
IGNITION LEAD. REPLACED SCAT TUBE ON CARB HEAT. ENGINE CONTROL											
CHECKED TO STOPS OK. REPLACED AIR FILTER ELEMENT P/N BRACKET											
#4108. SERVICED ENGINE W/7QTS AEROSHEK W80. OIL FILTER											
CHANGED, NO METAL FOUND. REPAIRED ENGINE Baffles. ENGINE											
CONTROLS ENG RUN TEST OK. ENGINE AD COMPLIANCE											
BROUGHT FORWARD											
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
											
<p>REPORT ATTACHED TO AIRCRAFT LOGS. for 504709829</p> <p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED</p> <p>11A/W A 100 HR INSPECTION APP DETERMINED TO BE IN</p> <p>AIROWORTHY CONDITION SHOWS 9 MANHRS APP 535468043 ID</p> <p style="text-align: center;">————— end —————</p>											
BROUGHT FORWARD											
TOTALS											

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DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS 100 HR INSPECTION	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
5-16-2000			TACH	1490	ENGINE	TT	1299		SMOH	499	
ENGINE OIL AND FILTER CHANGED, AEROSHELL 100 AIR FILTER ELEMENT REPLACED. ENGINE CONTROLS CHECKED TO STOPS. IGNITION TIMING CHECKED COMPRESSION CHECK #1 $7/80$ #2 $7^3/80$ #3 $7^2/80$ #4 $7/80$ RUN TEST OK <i>[Signature]</i> 564709829 ENGINE AD COMPLIANCE REPORT ATTACHED TO AIRCRAFT RECORDS											
5-16-2000	I I CERTIFY THAT THIS ENGINE & PROP HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL IAWSP & DETERMINED AIRWORTHY										
BROUGHT FORWARD										<i>[Signature]</i> 2135801 IA	
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
15 MAY 03									TACH 1724 ENGINE TOTAL TIME 1483 SMOH 733		
									TIMING CHECKED, SPARK PLUGS CLEANED AND GAPPED,		
									COMPRESSION CHECKED (1) $\frac{74}{80}$ (2) $\frac{76}{80}$ (3) $\frac{76}{80}$ (4) $\frac{78}{80}$, OIL SERVED		
									WITH AEROSHELL 100W 7 QTS, R&R CHAMPION CFO100 OIL FILTER		
									NO METAL FOUND, ENGINE CONTROLS CHECKED TO STOPS.		
									C/W AD 68-05-01 MUFFLER INSPECTED I/A/W PAR. F, G (1) FOUND OK		
									NEXT DUE TACH 1774. R&R BREATHER HOSE. I CERTIFY		
									THAT THIS ENGINE HAS BEEN INSPECTED I/A/W A 100 HR		
									INSPECTION USING 14 CFR PART 43 APPENDIX D AND		
									IS DETERMINED TO BE IN AIRWORTHY CONDITION.		
									Thomas A. Warr, AIP 535468043 — EUI —		
BROUGHT FORWARD											
TOTALS											

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4-20-02			TACH	1648	TT	1407	SMOHI	657					
PERFORMED 100 HR INSPECTION I/A/W 14 CFR - 43 APPENDIX d. SERVICED ENGINE W/6qt AEROSAELL 80 AND CH-100 FILTER. CLEAN AND GAP SPARK PLUGS. IGNITION TIMING SET. REPLACE CRANKSHAFT SEAL. C/W AD 96-09-10 by REPLACING OIL PUMP W/NEW PUMP # ^{AEL18109-S} AEL78531 OPS CHECK OK. REPLACED LORD MOUNT ENGINE CUSHIONS W/LORD #J7402-16. ENGINE CONTROLS CHECKED TO STOPS. RUN/LEAK TEST OK. COMPRESSOR CHECK #1 77/80 #2 80/80 #3 80/80 #4 80/80. NO METAL FOUND IN OIL FILTER INSPECTION. Shows 9 Mann B&P 535468043 <div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black;">END</div>													
4-20-02			TACH	1648	I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W A ANULLAL INSPECTION USING 14 CFR - 43 APPENDIX D. AND DETERMINED TO BE AIRWORTHY Shows 9 Mann 535468043 1 A								
<div style="border-top: 1px solid black; border-bottom: 1px solid black;">END</div>													
BROUGHT FORWARD TOTALS													

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
	<p>DATE 04-13-2004 TACH 1806.5 /TTE 1564.5 /SMOH 814.5 ANNUAL INSPECTION COMPLETED THIS DATE USING 14 CFR PART 43 APPENDIX D CHECKLIST. COMPRESSION 1. 78/80 2. 78/80 3. 78/80 4. 78/80 SERVICED WITH AEROSHELL 100W, OIL FILTER CHECKED NO METAL FOUND. TIMING CHECKED, SPARK PLUGS CLEANED AND GAPPED, AIR FILTER ELEMENT REPLACED BA-4108. ALL CONTROLS CHECKED TO STOPS. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. THOMAS A. MANN 535468043IA</p> <p style="text-align: right;"><i>Thomas A Mann</i></p>										
	<p>DATE 04-28-05 TACH TIME 1888.5 TOTAL TIME 1646.5 SMOH 896.5 ANNUAL INSPECTION COMPLETED THIS DATE USING 14 CFR PART 43 APPENDIX D CHECKLIST. COMPRESSION #1. 78/80 #2. 80/80 #3. 80/80 #4. 80/80 SERVICED WITH AEROSHELL 100W . OIL FILTER CHECKED NO METAL FOUND. SPARK PLUGS CLEANED AND GAPPED ALL CONTROL CHECKED TO STOPS . I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. THOMAS A. MANN 535468043IA</p> <p style="text-align: right;"><i>Thomas A Mann</i></p>										
BROUGHT FORWARD											
TOTALS											

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	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			

2-5-2026 Engine Log Tach Time 2014.1 Hrs. Total Time 1770.6 Hrs. SMOH 1020.6 Hrs STO H and IRAN 0.0 Hrs Lycoming O320E2D s/n L37741-27A Disassembled engine with the exception that connecting rods were not removed from the crankshaft. Replaced camshaft with overhauled camshaft from Aircraft Specialties p/n AEL11754 and overhauled Cam followers p/n's 72877. Inspected oil pump. Replaced all Main bearings with standard size bearings p/n SL68763A. All cylinders where leak checked and valves lapped as necessary for gas tight fit, cylinders honed and pistons reinstalled with new standard Rings. Engine was reassembled with new seals and gaskets. All dry lifter clearances checked to be within specification. Pre-oiled engine and installed oil and oil filter Phillips 20w-50 XC. Magnetos where given a 500 hour inspection and installed and timed to engine.. Carb was disassembled and cleaned – carb has one piece venturi and metal float. Engine installed in N3780M, Operationally and leak checked. Performed Annual Inspection using Far43d as a guide. I certify that this engine has been given an annual inspection and found to be in airworthy condition.

Jeffery T Burns A&P 2061966 IA 

BROUGHT FORWARD							
TOTALS							

