

# AVCO LYCOMING ENGINE LOG

AVCO LYCOMING DIVISION

WILLIAMSPORT, PENNSYLVANIA 17701

3341372

**AVCO** LYCOMING DIVISION  
WILLIAMSPORT, PA. 17701

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF Avco Lycoming AEIO-360-A1E 2-18615-514  
MAKE MODEL SERIAL

FROM Feb. 15 1985 TO 3-1- 1986  
2003

DETAILING TIME FROM "0" Six major o/H: TO \_\_\_\_\_  
HOURS HOURS

SSP 1872

June 1972

# ENGINE DESCRIPTION

Mfgr. <b>AVCO</b>	LYCOMING DIVISION	Place	WILLIAMSPORT, PA.	17701	Date	2/15/85
Type	— 0 Pposed —	Model	AEIO-360-A1E	Serial No.	5-18615-51A	
Rated H.P.	200	Max.H.P.	220	Weight (Dry)	293 lbs.	
Rated R.P.M.	2700	Max. R.P.M.	2700	Oil Pressure	60/90 p.s.i.	
Bore	5.125"	Stroke	4.375"	Displacement	361 Cu. In.	
Compression Ratio	10.0 : 1	Supercharger Ratio	N/A			
Reduction Gear Ratio	N/A					
Propeller		Hub Design		Hub Serial No.		
Blade Design		Blade Serial No.		Blade Serial No.		
Max. Hub H.P.		Max. Blade H.P.				
Pitch		Diameter		Length		
Name						
Address						

SERIAL No. 1-18615-51A

[illegible]



SERIAL No.

[illegible]

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
5-27-86	27	12	Removed Coils & Distributor & serviced with 704. 50 wt. Pennzoil. Nov Det. oil tight. All oil lines checked for leaks. Ray Mabe		
6-4-86	29	44	Compression checked #1 71% #2 73% #3 74% #4 75% checked for oil leaks, made needed & installed on #4 cylinder for bottles. "I certify that this <del>engine</del> <sup>engine</sup> has been inspected in accordance with the scope and detail of Appendix D of FAA Part 43 and found to be in a condition for safe operation"		
			Ray Mabe Cert. # 571884771		
7-28-86	43	18	Removed oil drain Plug & sealed with sealite - serviced with 704. Pennzoil. Nov Det. 50 wt. Ray Mabe # 571884771		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

---

**All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.**

# ENGINE LOG SERIAL NO. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
4-24-88	8	00	" Drained oil & changed oil & checked the following #3-75 #4-75 #2-75 checked plugs, compression checked the following #4-75 #2-75 #3-75 #4-75, Rebuilt oil cooler mounting brackets and all belts on left side, set timing at 25° Revolved inner complete this date I certify that this engine has been inspected in accordance with the scope & detail of Appendix D of FAR 43 and found to be in a condition for safe flight" Rep M. G. Goto # 571884771		
8-29-89	12	00	Replaced tachometer at 12000 New York Reads 00:00 Rep M. G. Goto # 571884771		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement  
of a Certificated Mechanic, and his Rating  
and Certificate Number MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
06-13-89	7:00	50	Drained oil, cleaned screen, serviced w/50wt. AmocoShell, checked compression #1-75 #2-76 #3-76 #4-77, cleaned engine, inspected for leaks OK, checked spark plugs, replaced #4 exhaust gasket, Annual inspection completed engine. Total Time 385.5 SMOH 125.6		
			I certify that this engine has been inspected in accordance with the detail of Appendix D of FAR 43 and found to be in condition for safe flight. Date 06-13-89 Roy M. G. #591-884771		
2-21-90	7:00	13.0	Changed oil, serviced w/40wt. AmocoShell, cleaned screen, compression checked #1-76 #2-75 #3-78 #4-76		
			Total Time 538.6 SMOH 138.6 Total 13.0 Page 271884771		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
90-08-04	1	39.1	SMOH 164.1		
COMPRESSORS	#1	75/80, #2	75/80, #3	76/80, #4	77/80
CLEANED, GAPPED & ROTATED SPARK					
BUGS CHECKED THRU 25' BTDC, CHANGED OIL, CHECKED PRESSURES & SUCTION					
STRAINERS CHECKED GASCOLATOR AND F.T. SCREENS, TROUBLE REMOVED AND					
CRANKS/HAFT FLANKS PENETRANT INSPECTED AND CRANKS/HAFT DE-SLURGED,					
PROP RE-INSTALLED, TROUBLE & SAE-TESTED. THEORETICAL ARM ADJUSTED TO CLEAR					
OIL SUMP. PROP CONTROL, BUTERATE BR. AND MIXTURE LINKAGES SECURED					
WITH DRILLED BOLTS & CASTELATED NUTS, ENGINE CLEANED WITH					
SOLVENT AND TEST RUN TO CHECK FOR OIL LEAKS & PROPER					
OPERATION. IDLE SPEED & MIXTURE ADJUSTED.					
Page Total			All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
Brought Forward					
Total to Date					

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
			I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF APPENDIX D OF FAR PART 43 AND THAT IT HAS BEEN FOUND TO BE IN CONDITION FOR AERIAL OPERATION		
			Will R. Hebble 502427429 AEP		
91-07-20			TACH 107.3 SMOKE 232.3		
			COMPRESSION #1 74/80 #2 73/80 #3 67/80 #4 73/80 TIMING		
530			280 BTDC BOTH MAGS. CLEANED, GAPED, ROTATED		
SPARK			PLUGS, CHANGED OIL, CHANGED SCREENS, #4 CYL		
			Page Total		All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward		
			Total to Date		

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
			REMOVED DUE TO BROKEN HEAD STUDS. STUDS REPLACED		
			SCREWDRIVER WITH NEW ROD BEARING & BOLTS. W/		
			REPAIRS & AIR FILTERS REPAIRED. DIE COOLER		
			OVERHAULED BY RFB ON COOLER SERVICE. PROP R/R		
			LEAK REPAIRED. AD 77-12-06 C.U. ALL ENGINES		
			LINKAGES CHECKED FOR SECURITY & OPERATION. ENGINE		
			CLEANED & TEST RUN TO CHECK FOR LEAKS AND		
			OPERATION.		
			1. CHECKED THAT THIS ENGINE WAS BEING		
			1. INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
			OF ADDENDIX D OF FAR PART 43 AND THAT IT WAS		
			FOUND TO BE IN Adequately CONDITION.		
			with 27 1/2 in. 3024279291BP		
92-07-07			TACH 148.5 SMOH 273.5		
Comp #1 74/80 #2 74/80 #3 75/80 #4 78/80			TIMING SET 25° BTDC. CLEANED		
GAPPED & RETIGHTED SPARK PLUGS. OIL #1, 2, 3 R&R TO REPLACE					
416 1/2" TORQ DOWN STUDS & THERM BOLTS. FUEL INLET SCREEN					
CHECKED			the ENGINE CONTROLS CHECKED FOR PROPER		
OPERATION AND SECURITY. REPELOR R&R FOR CRANK PLANK					
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
			PENETRANT INSPECTION. OIL CHANGED, PRESSURE AND INLET		
			SCREENS CHECKED. ENGINE CLEANED AND TEST RUN TO		
			CHECKS FOR LEAKS AND PROPER OPERATION.		
			1 CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED		
			IN ACCORDANCE WITH THE REQUIREMENTS OF		
			APPENDIX D OF FAR PART 43 AND THAT IT WAS		
			FOUND TO BE IN ADEQUATE CONDITION,		
			MICHAEL SHUCKLE 502427429ABP		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
93-09-07			TRAIL 186.3 TSMC 11 3/11.3		
			Compression #1 72/80 #2 74/80 #3 79/80 #4 76/80. CLEANED GAPSED		
			AND REINSTED SPARK PLUGS. TIMING SET 25° BTDC BOTH		
			MAGNETO'S. FUEL INLET SCREEN AND GASOLATOR CLEANED		
			PER PROPELLER AND PENETRANT INSPECTED CRANKSHAFT		
			BEARING. ENGINE CLEANED AND TEST RUN TO CHECK		
			FUEL LEAKS AND PROPER OPERATION.		
			ORDER THAT THIS ENGINE HAS BEEN INSPECTED		
			IN ACCORDANCE WITH THE REQUIREMENTS OF APPENDIX		
			D OF FAR PART 43 AND THAT IT HAS BEEN FOUND		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
70	85	10	CONDITION FOR SAFE FLIGHT.		
			<del>WELL</del> <del>ST</del> <del>Check</del> 502427429 ABP		
12/28/93			TACH 202.3 TSMOIT 327.3 SAME 7 AVIATION LABS CHANGED OIL CHECKED SCREENS, ENGINE CLEAR		
1/16/94	*		TEST RUN. FOUND LEAK IN TACH DRIVE CABLE. * REPAIRED TACH DRIVE CABLE SEAL WITH RAYMARON. <del>Went to garage</del>		
2-5-94			TACH 217 RIR all fuel and oil hoses - Test and NO leaks <del>changed oil</del> checked screen - <del>Acrosen</del> 15450		
			Page Total <del>5</del> 411850000		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICE NUM
	Hrs.	Min.			
5			TOH 244 CHANGED OIL, CHECKED SCREWS. REPAIRED TALL WITHIN SCREWS, NEW TIGHTENED. HUMAN BATH		
2-94			TECH=255. Installed New SPARK PLUGS All Cyl-New. 125 REM38E. Checked mag Timing OK. 250-REPAIRED Oil Exhaust baskets After Weld Repair TO BOTH STOCKS. Reg mod Adjustments 257 - END		
9/64			TOH 244 CHANGED OIL. HUMAN BATH		
Page Total			All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
Brought Forward					
Total to Date					

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
5/15			TACH 244 CHANGED OIL, CHECKED SCORERS, REPLACED TAIL WATER SPRINGS, NEW TIRAS + TIRAS. <i>Alvin Belin</i>		
5-7-94			TACH = 259 Installed New Spark Plugs All Cyl - New Plugs. REM 38E. Checked made Tuning O.K. 250 - REPLACED ALL Exhaust Gaskets After Weld Repair TO BOTH STACKS. <i>Alvin Belin</i> AS 155557257 - END		
6/9/94			TACH 219.4 CHANGED OIL. <i>Alvin Belin</i>		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
8-26-94			TOPT 294.2 CHANGED OIL, 1N58P42160 + CLEANED OIL <del>REMOVED</del> SEPER. CHOCKED EXHAUST MANIFOLD + PIPES. Anyways before		
9-26-			TACH = 309 Oil cylinders removed - new pistons in 3 cylinders. All new rings. All cylinders & all cylinders reinspired using new seals and baskets. SEVERED Engine with Acrostell 100. All cylinder repairs done by western cylinder and 94. Replaced 1/4 inch with New Slick mat Timing set TO 200 BTDC. Cleared and balled all sparkplugs. all injectors -		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



# ENGINE LOG SERIAL No. \_\_\_\_\_

ME		LICENSE	
Min.	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	NUMBER
	Cleaned - Exhaust OK Test Ran OK. 12/15		
	Flown for one hour - TO TACH 310 - oil		
	Screen cleaned and inspected OK -		
	STARTER Rebuilt By	DATE 9-26-74	TACH 316
	8 PC Alc. C/W AD		
	93-08-05 By inspection has been inspected in accordance with a		
	of Fuel ins - lines and	Periodic condition inspection within the	
	Claims -	scope and detail of F.A.R. 43 appendix	
		"D" and found to be in a condition for	
		safe operation. <i>Raymond H. 18552572237</i>	
	Page Total	All Repair Data Must Bear the Endorsement	
	Brought Forward	of a Certificated Mechanic, and his Rating	
	Total to Date	and Certificate Number MUST be Shown.	

SERIAL No.

[illegible]

**SERIAL No.**

[illegible]

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
9-6-95			Charged oil. Checked DATE 9-6-95 TACH 390 -		
			spark. NO metal found		
			SERVICED with Aeroshell		
			Now. capped all spark-		
			Also-Installed New		
			Engine mount rubbers		
			with timing ok. 32°		
			Exhaust ok. 90 A.D		
			93-02-05 By inspection. comp = all cyl 75/70 or		
			Better.		
Page Total			All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
Brought Forward					
Total to Date					

# ENGINE LOG SERIAL NO. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
4-15-96			<p>Truck 39646</p> <p>Changed oil, removed sample for oil analysis. Added 3qt. 15 wt oil &amp; 1 quart 1600 additive. Cleaned oil pressure relief. Ball &amp; Reinstalled &amp; adjusted. Take a mixture. washed door &amp; fuel up. led OK</p> <p>Forwarded 1/11/96 and 40P420927844</p>		
Page Total					
Brought Forward					
Total to Date					

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



**SERIAL No.**

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
11-11-96			Comp OS Follows #1 75/80 #2 75/80 #3 75/80 #4 75/80 Charged oil checked screen. serviced with Accusshut 100w and bu 16702 DATE 11-11-96 TACH 403-4 Cleared and balled all Sparkplugs - 92 A.D 93-02-05 By JWSR Mtb timing o.k 220 Test RAN O.K.  I certify that this <u>Engine</u> has been inspected in accordance with a Periodic condition inspection within the scope and detroit of F.A.R. 43 appendix "D" and found to be in a condition for safe operation. <u>Roy Mac A/B 525 2007</u>		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

**SERIAL No.**

[illegible]

**SERIAL No.**

[illegible]

**SERIAL No.**

**All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.**

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
2-12-09			TRUCK 435 COMPRESSIONS AT 74/80 OF OIL CHECKED SCREEN. NO CONTAMINATION FOUND (THIS TIME. SERVICED WITH TDS NEEDS 100W 11 W/16702 OIL. ADD. SERVICED SPARK PLUGS. MAGNETIMING. EXHAUST CHECKED O.K. RUN-UP OIL CHECKED GOOD. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A PERIODIC CONDITION INSPECTION WITHIN THE SCOPE. DETAIL OF THE 435 APPX "D" FOUND TO BE IN A CONDITION FOR SAFE OPERATION. <u>Beck</u> <u>ADD549272860</u>		
			Page Total	All Repair Data Must Bear the Endorsement	
			Brought Forward	of a Certificated Mechanic, and his Rating	
			Total to Date	and Certificate Number MUST be Shown.	



**SERIAL No.**

(805) 525-4352

**SIGNATURE**

[illegible]

MAKE: LYC  
MODEL: AEIO 360 A1E  
Date: 02-02-2000 REG: N123TR  
TACH: 444.4

Compressions as follows: 1)78/80 2)76/80 3)78/80 4)76/80. Changed oil and checked screen. No contamination found at this time. Serviced with 7qts aeroshell 100W/+. Cleaned and gapped spark plugs. Checked mag timing. Checked exhaust. Checked and lubed all controls. CW/AD 93-02-05 by inspection of injection lines. I certify that this engine has been inspected in accordance with a 100 hr inspection and was found to be airworthy.

BRIAN DICKENSON A&P 549272860

the Endorsement  
ic, and his Rating  
JST be Shown.

**SERIAL No.**

**Ray's Aviation**  
35 Cessna Taxi, Santa Paula Ca 93060

**805-525-4352**

**LICENSE  
NUMBER**

DATE	TIME
------	------

**Hrs./Mi**

Make: LYC  
Date: 03-01-2001  
Model: AEIO-360-A1E  
Tach: 452.8  
Reg #: N123TR  
S/N: L-18615-51A  
SMOH: 452.8

Compression: 1)78/80 2)76/80 3)78/80 4)78/80. Drained oil, cleaned oil screen.

**No contamination found. Serviced engine with 7 qts Aeroshell 100W+.**

Cleaned and gapped spark plugs. Checked mag timing. Inspected exhaust.

Checked and lubed all controls. CW AD93-02-05, visual inspection of fuel lines.

I certify this engine has been inspected in accordance with a 100hr inspection and was found to be airworthy.

Ray Maxon A&P 552577237

ar the Endorsement  
anic, and his Rating  
MUST be Shown.

# ENGINE LOG SERIAL No. \_\_\_\_\_

DATE	TIME		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	SIGNATURE	LICENSE NUMBER
	Hrs.	Min.			
3-1-03	11:00	11:15	TACH: 474.5 TSMITH: 474.5		
			1. Idle condition inspection per FAR 413 and sound good		
			for return to service.		
			2. cleaned, gapped & retimed plugs. & set idle mixture & idle		
			3. comp. 1) 74, 2) 76, 3) 75, 4) 72		
			4. changed oil and ground nut & lock checked good.		
			5. A cert. 5g That this engine has been inspection 11/1/02		
			a condition inspection per FAR 413 applied and found to be good		
			see safe operation.		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

AP 522682386

Remchell 11/1/02

## SERIAL No.

[illegible]

AE10-360-A1E Service Bulletins, Letters,  
DATE 12615-51A Instructions & AD Notes  
S/A

91-08-07	N/A	By Model #
78-23-10	-	RSA 5AD1 P/L 2524054-10 S/A 45050 N/A BY PL #
75-08-09	N/A	
90-04-06	-	
91-14-22	-	
92-12-05	N/A	None installed
84-13-05	C/A	At O/H Dated 2-15-85
93-02-05	At	Each Annual Inspect Fuel in-T lines
95-07-01	N/A	NO Red Bolts Replaced -
96-09-10	C/A	At O/H
87-10-06	N/A	By S/A and model #
92-12-05	N/A	None installed
93-11-11	N/A	Fuel Pump NOT O/H
95-07-01	N/A	
96-23-03	N/A	NOT Replaced