

Book 2



The Standard

ENGINE LOG

ASA-SE-1

[illegible]

[illegible][illegible]

YEAR: DATE	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 Technician or Repair Facility. (See back pages for other specific entries.)
1-4-16	3288.7		3288.7	DRAINED OIL, CHANGED FILTER & SERVICED WITH 79 ⁵ / ₁₆ OF AERO SHELL 100 PLUS. COMP CHECK 1) 78/80 2) 74/80 3) 75/80 4) 76/80 REPLACED INDUCTION AIR FILTER. I CERTIFY THAT ENG. HAS BEEN INSP. IAW AN ANNUAL INSP. AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Corbin A&P, IA 16389572
12-9-16	3301.0			REMOVED & REINSTALLED BOTH MAGS AFTER SHOP REPAIR. SYS CHECKED GOOD ON GROUND RUN. Richard Corbin A&P 16389572

YEAR: DATE	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 Technician or Repair Facility. (See back pages for other specific entries.)
2-9-17	3301.5		3301.5	DRAINED OIL, CHANGED FILTER & SERVICED WITH 89 ⁵ / ₁₆ AERO SHELL 100 PLUS OIL. CHANGED INDUCTION AIR FILTER COMP CHECK 1) 78/80 2) 74/80 3) 75/80 4) 76/80. I CERTIFY THAT THIS ENG. HAS BEEN INSP. IAW AN ANNUAL INSP. & HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Corbin A&P, IA 16389572
4-2-18	3317.5		3317.5	DRAINED OIL, CHANGED FILTER & SERVICED WITH 89 ⁵ / ₁₆ OF AERO SHELL 100 PLUS OIL, CHANGED INDUCTION AIR FILTER COMP CHECK 1) 78/80 2) 74/80 3) 75/80 4) 76/80. I CERTIFY THAT THIS ENG. HAS BEEN INSP. IAW AN ANNUAL INSP. & HAS BEEN

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YEAR: DATE	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 Technician or Repair Facility. (See back pages for other specific entries.)
9-13-12	3241.0		3241.0	DRAINED OIL CHANGED FILTER & SERVICED WITH 8qt OF AeroShell 100 PLUS OIL. COMP CHECK 1) 78/80 2) 78/80 3) 78/80 4) 78/80 REPLACED INDUCTION AIR FILTER. I CERTIFY THAT THIS ENG. HAS BEEN INSP. IAW AN ANNUAL INSP. & HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Combs AWP, IA 16389572
10-25-13	3264.7		3264.7	DRAINED OIL CHANGED FILTER & SERVICED WITH 7qt OF AeroShell 100 PLUS OIL. COMP CHECK 1) 78 2) 76/80 3) 78/80 4) 76/80 REPLACED INDUCTION AIR FILTER. I CERTIFY THAT THIS ENG. HAS BEEN

NEXT PAGE →

YEAR: DATE	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 Technician or Repair Facility. (See back pages for other specific entries.)
10-25-13				INSP IAW AN ANNUAL INSP. & HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Combs AWP, IA 16389572
12-16-14	3279.7		3279.7	DRAINED OIL, CHANGED FILTER & SERVICED WITH 7qt OF AeroShell 100 PLUS OIL, COMP. CHECK 1) 78/80 2) 76/80 3) 78/80 4) 78/80 REPLACED INDUCTION AIR FILTER. I CERTIFY THAT THIS ENG. HAS BEEN INSP IAW AN ANNUAL INSP. & HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Combs AWP, IA 16389572

YEAR: DATE	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 Technician or Repair Facility. (See back pages for other specific entries.)
5-13-08	3106.2		3106.2	COMPRESSION CHECK 1) 78/80 2) 76/80 3) 78/80 4) 78/80
				REPLACED INDUCTION AIR FILTER. REPLACED
				GROMETS ON CARB HEAT DOOR VALVE ROD.
				I CERTIFY THAT THIS ENGR. HAS BEEN INSPEC-
				TED IAW AN ANNUAL INSP AND HAS BEEN
				DETERMINED TO BE IN AIRWORTHY COND. TION
				AT THIS TIME FOR RETURN TO SERVICE
				Richard Cox A&P, IA. 016389572

YEAR: 09	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 Technician or Repair Facility. (See back pages for other specific entries.)
4/21	3162			Remove & Replace Oil & Filter # 48110 Service 7QTs of Aeroshell 100 Earl Chambers Owner
6-9-09	3181.6		3181.6	Compression check 1) 78/80 2) 74/80 3) 78/80 4) 78/80 Replaced induction AIR FILTER. I CERTIFY THAT THIS ENG HAS BEEN INSP. IAW. AN ANNUAL INSP AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. Richard Corio A+PIA 016389572

YEAR: 2006	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 Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
3-20	2956.8		2956.8	DRAINED OIL, CHANGED FILTER & SERVICED
	TS MOH	798.8		WITH 8qt OF AeroShell 100W OIL. COMPRESSION
				CHECK 1) 78/80 2) 78/80 3) 78/80 4) 78/80 REPLACED
				INDUCTION AIR FILTER I CERTIFY THAT THIS ENGINE
				HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION
				AND HAS BEEN DETERMINED TO BE IN AIRWORTHY
				CONDITION AT THIS TIME FOR RETURN TO SERVICE.
				Richard Combs FA AIP 016389572
12-6-06	3035.0			COMPRESSION CHECK 1) 78/80 2) 79/80 3) 79/80 4) 78/80
				REPLACED ALL 4 INTAKE TUBE GASKETS.
				Richard Combs AIP 016389572

YEAR:	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 Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
7-6-07	3048.8		3048.8	DRAINED OIL, CHANGED FILTER & SERVICED
				WITH 8qt OF AeroShell 100W OIL. COMPRESSION
				CHECK 1) 77/80 2) 76/80 3) 78/80 4) 78/80 REPLACED
				INDUCTION AIR FILTER I CERTIFY THAT THIS
				ENGINE HAS BEEN INSPECTED I.A.W. AN ANNUAL
				INSPECTION AND HAS BEEN DETERMINED TO BE
				IN AIRWORTHY CONDITION AT THIS TIME FOR
				RETURN TO SERVICE
				Richard Combs AIP IA 016389572
2/17	3098			REMOVE & REPLACE OIL & FILTER #48110
				SERVICED 2 QTS AeroShell 100.
				WMD/owner

Engine Record General Information

Manufacturer LYCOMING Model O-360-A4M

Serial L-23430-36A Type Certificate _____

This engine is currently installed in aircraft N 38553

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at _____ hours

BOOK 1

ENGINE LOG



ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
4-29-05	Brought Forward →		2872.1	Removed & Replaced
		All 4 cylinders		Reconditioned Cyls
		P/N 12427 S.N.s. 5761-1 & 2, 3 & 4 E.N.C.		
		checked good on ground Run & Test P/L		
		No Leaks noted		Richard Combs A-1016389572
Total To Carry Forward				

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
6/14/04	Tach 2789			Replaced Both Magneto's, Pt#4371 SN# 04011870 on LT side and Pt#4370 SN 04011762 on RT side, set timing and Run engine, JH HP 32501382
Total To Carry Forward				

and Remarks

12/9/64 Replaced Carb PW# 10-5193
312 DME 740806, Rigger
Tech
2836 Controls and Test Run

2/11/05 changed oil and filter secured
Tach with 88T Herchel 100-50w Inspected
2849 oil filter (compressor OK over 80
TSO 1/70 2/71 3/69 4) 70. Drained carb,
691 Replaced all spark Plugs R217
38E, Install Fuel Flow Transducer
+ Line To Carb, Replaced Air filter
Install EGT + CHT probes, Replaced
seat hose and oil cooler, Run
engine and leak checked

I certify as of this date that this Engine
has been inspected in accordance with 100 Hm
inspection and was determined to be in airworthy
condition. Total Time 2849
Tech Time 2849 TSO 691



HOWARD KEECH
A+P 32501382 1A

HOWARD KEECH
A+P 32501382 1A

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ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
11/20/03	Tach			Removed old carb PT # 10-5193
	2675			SW CP-4 2011 and install PT 10-5193
				SW 75469805, op> checked and
				Test Flown
Total To Carry Forward				

HOWARD KEECH
A+P 32501382 IA

and Remarks	Signature	Certificate No.
2/6/04 changed oil and filter, Serviced with 8 ^{er} Henshell Tach 100 50w, Compression ck over 80" 73 77 70 74, Drained carb		
2727.79 set Timing, clean + Drop Plug's, replaced Air filter, Inspect		
2727.79 muffler. Clean gascolator. Run engine and leak ck		
569.79 Replace AIT Bracket and AIT to starter Bracket,		
install new AIT Belt 73965-015		
Test ELT Fldw For 9/1.207 D.		
Annual Due 3/05		
100 Hr. Insp. Due 2827		
ELT Battery Due		
ALT. Check Due		
Transp. Check Due		

I certify as of this date that this Engine has been inspected in accordance with 100 Hrs inspection and was determined to be in airworthy condition. Total Time 2727.79 Tech Time 2727.79 TSO 569.79

HOWARD KEECH
A+P 32501382 IA

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
1/06/03	Brought Forward →			changed oil and filter, Inspected filter, serviced with 8qt Aeroshell 100
	Tach			30W, Compression OK over 80 1/2 2/5
	2540			3/73 4/75. Drained carb bowl, Install
	TSO			
	382			
Annual Due	2/04			New boson spark plugs, checked Timing
100 Hr. Insp. Due	2640			Install Airfilter, Inspect muffler
ELT Battery Due	Jan 05			clean Gascolator
ALT. Check Due	7/03			
Transp. Check Due	7/03			
				I certify as of this date that this <u>Engine</u> has been inspected in accordance with <u>100 Hrs</u> inspection and was determined to be in airworthy condition. Total Time <u>2540</u>
				Tech Time <u>2540</u> TSO <u>382</u>
Total To Carry Forward				HOWARD KEECH A-P 32501382 IA

and Remarks	Signature	Certificate No.

Date: Sept. 27, 2003 Tach: 2641:01 N38553
 Engine Model: O-360-A4M, S/N. L-23430-36A Engine MFG. Lycoming

Removed all four cylinders for repair, due to cylinder barrel glaze. Ring finished cylinders. Installed [2] new exhaust valves P/N. AEL19001 ground all seats. Reassembled cylinders with new keys P/N. SL-60009 & P/N. MS13997-3. Reinstalled cylinders on engine with new rings, sets P/N. ST203 & gasket sets P/N. AEL-12032-SC. Change oil, service with 8qts. of Phillips X/C 20W 50, and new filter P/N. CH48110. Work done, under work order 23267. No other work done, by this agency at this time.

Zephyr Aircraft Engines Inc F.A.A. Approved Repair Station # VI4R597M
 39320 ave. B
 Zephyrhills, Florida 33540
 813-788-3305

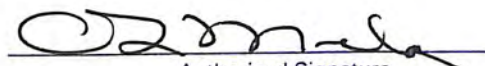
Samuel Volstead
 Authorized Signature

Date: 7/18/01 Tach: REMOVED CARBURETOR
 INSTALLED OVERHAULED 10-5193 CARBS CP7475
 INSTALLED & TIMED NEW LEFT MAGNETO Pn 4371
 INSTALLED NEW 10-357210-1 MAGNETO SWITCH

Zephyr Aircraft Engines, Inc.

Municipal Airport
 39320 Avenue B • Zephyrhills, FL 33540

W.O. No. NA
 F.A.A. APPROVED REPAIR STATION #VI4R597M


 Authorized Signature

Total To
 Carry Forward

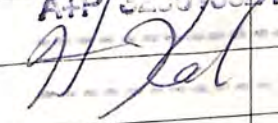
and Remarks

Signature Certificate No.

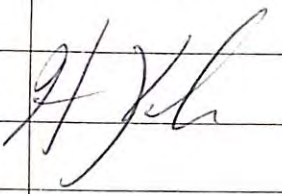
12/26/01 Dinner carb bowl, clean and gap plugs, set
 Tach Timing Tighten valve covers, wash engine and leak
 2332.1 check, replace cabin heat seat hose, replace Air filter
 TSO Repair Air filter cover mount, Inspect filter for oil
 174.10 Compression Test over 80 ¹/₆₉ ²/₇₀ ³/₆₉ ⁴/₆₉

TT 174.1
 2332.1
 I certify on this date that this Engine
 has been inspected in accordance with
 and it was determined to be in airworthy
 condition 2332.1
 2332.1 TSO 174.1

HOWARD KETCHUM
 AIP 52503821A



ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
2/7/01	Install This Eng on Aircraft N38553			
Tach	PA28-181 SN# 7790563, Rigged all controls Install			
2158	all accessories, set timing and test run on ground			
TSO	Served with Aeroshell 100 Mineral oil			
✓				
TT eng	HOWARD KETCH AIP 623018821A			
2158				
Total To Carry Forward				

Signature		Certificate No.
Date: 8/6/01 Tach: 2279.93 INSTALLED NEW Pn 4370 & 4373 magneto & TIMED TO ENGINs		
Zephyr Aircraft Engines, Inc. Municipal Airport 39320 Avenue B • Zephyrhills, FL 33540		
W.O. No. <u>219</u>	 Authorized Signature	
F.A.A. APPROVED REPAIR STATION #VI4R597M		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			

Date: 2/7/01 Tach: 2158 LYCOMING O-360-A4M
 ENGINE SN L-23430-36A DISASSEMBLED, ALL PARTS
 CLEANED & INSPECTED, STEEL PARTS MAGNAFLUXED,
 ENGINE REASSEMBLED MAJOR OVERHAULED TO MFG
 NEW PARTS TOLERANCES I/A/W LYC O/M MANUAL
 INSTALLED NEW ECI CYLINDER ASSEMBLIES NEW
 AEL-18840 (AMSAFT), SEE PARTS LIST THIS DATE.
 NO ACCESSORIES OVERHAULED AT THIS TIME

Zephyr Aircraft Engines, Inc.

Municipal Airport
 39320 Avenue B • Zephyrhills, FL 33540

W.O. No. 21007

F.A.A. APPROVED REPAIR STATION #VI4R597M



Authorized Signature

OVERHAULS

Work Done By	Certificate No.	Returned to Service		
		By	Certificate No.	Date

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts limits by Zephyr Aircraft Engines, Inc. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. Reassembled in accordance with manufacturer's current overhaul manual. engine test run. All applicable Airworthiness Directives are in compliance. See A.D. list supplied. A description of these repairs is on file at this agency under:

W.O. No. 21007

DATED 2/7/01

MFG. TEXTRON LYCOMING

MODEL O-360-A4M

Serial No. L-23430-36A

Time in svc. 2158

ZEPHYR
 Aircraft
ENGINES INC.

F.A.A. APPROVED REPAIR STATION #VI4R597M

(813) 788-3305 • Fax (813) 788-4412
 39320 Avenue B • Zephyrhills, FL 33540



Authorized Signature

This Date

Since Major

Reading

Maintenance

ENGINE MAINTENANCE RECORD**DATE=12/15/00 O-360-A4M SER. NO. L-23430-36A****TACH=2156 ENGINE TOTAL TIME=2156**

Oil not changed @ this time. Compression: #1 76/80 #2 76/80
#3 75/80 #4 60/80. Replaced engine oil pressure hose with new.
AD 96-09-10 oil pump impeller is due compliance, owner advised.
*I certify this engine has been inspected IAW a 100 hour
inspection and is determined to be in an unairworthy condition
and a discrepancy list of an unairworthy item (AD96-09-10) has
been provided to the aircraft owner / and or operator.*



S.W. Greer

A&P3767695601A

ENDANNUAL
Total To
Carry Forward

ENGINE LOG

[illegible]

and Remarks	Signature	Certificate No.
Model 4370 S/N 99102567 & Model 4371 S/N 00010133, good. <i>Bruce G. Saul</i> AEP 1875074		
March 27, 2000 T.T. 2018.0 Removed carburetor MA 4-5 S/N CP-1-863, Reinstalled same after repair. See TAG DATED 3-27-2000. Engine run-up & checks good, runs smooth & develops full power. <i>Bruce G. Saul</i> AEP 1875074		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
12-26-98	1809.70		Changed oil & Filter Aeroshell 100w Dan Heltch 262-90-1886 owner	
2-5-99	1835.46		Changed oil & filter Aeroshell 100w & Filter P/N CH48110. Bruce C. Saul AEP 1875074	
Total To Carry Forward				

11-04-99 Tach. 1935.7 TSN 1935.7 A/C Total Time 1935.7

and Remarks	Signature	Certificate No.
Compression check: #1 ⁷⁶ / ₈₀ , #2 ⁷² / ₈₀ , #3 ⁷⁶ / ₈₀ , #4 ⁷⁷ / ₈₀ . Cleaned, gapped & tested spark plugs. Installed new ignition Harness P/N CH14001. Cleaned fuel screens. C/W AD 98-01-06 Carburetor per par. (3) Engine runs smooth and develops static power. AD's CK Thru 99-21.		
Tach. <u>1935.7</u> TSN ON <u>1935.7</u>		
I certify that this engine has been inspected in accordance with an annual inspection and is determined to be in an airworthy condition on Nov. 4, 1999 <u>Bruce C. Saul</u>		
BRUCE A. SAUL IA 1875074		

Date 1998	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
Oct. 7	Brought Forward →	Total Time 1785.98	1785.98	Compression check: # 1 74/80, Installed 8 ea new REM # 2 lower ignition lead. # 4 cyl. Repaired end of Repaired carb. heat shroud.
Total To Carry Forward				

and Remarks	Signature	Certificate No.
#2 ⁷⁵ / ₈₀ , #3 ⁷⁶ / ₈₀ , #4 ⁷⁶ / ₈₀ .		
38E Spark plugs. Replaced end on		
R&I Exh. system, repl. lead stud		
muffler by welding new end tube &		
Changed oil & filter.		
Tach. <u>1785.98</u> TSN/OH <u>1785.98</u>		
I certify that this engine has been inspected in		
accordance with an annual inspection and is		
determined to be in an airworthy condition on		
<u>10-7-98</u> <u>Bruce A. Saul</u>		
BRUCE A. SAUL		
IA 1875074		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
10-10-97	Brought Forward →	TTC 1695.2	TTSmost 1695.2	Performe A 100hr Inspection List Compression As Follows All AD's Checked Thru R/R Oil Cooler Scat hose. @ This time no waz taken. Idle A 100hr Inspection condition @ This time
Total To Carry Forward				

and Remarks	Signature	Certificate No.
FAW. The PA28 181 Inspection Check 1) 75/80 2) 76/80 3) 75/80 7) 78/80 97-19. R/R Intake Rubber Connectors. R/R Induction Filter. Oil not changed I certify this Eng was Inspected and has been Found in Airworthy	WA 7A	343606686

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
1-7-97	Brought Forward →	1658.9	1658.9	Drain Engine oil and Service w/ 8yts of AeroShell
8-14-97		1683.7	1683.7	Drain Engine oil and w/ 8yts of AeroShell SowTol
				Seals. Replace Rocker Pin End cap
				OPS check ok All work done & ok
Total To Carry Forward				

and Remarks	Signature	Certificate No.
Replace The Ch48110 Oil Filter.		
Sowt oil OPS check ok	Hest Fhu	343606686
Replace The Ch48110 Oil Filter. Service		
OPS check ok. Replace #2 cyl Push Rod Tube		
Replace Starter. P# M2 4222 S# 6A00018		
The PA28181 Maint manual.	Hest Fhu	343606686

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
9-1-46	Brought Forward →	1625.3	1625.3	I certify That I have Inspection and have Found This Time For Return
Total To Carry Forward				

and Remarks	Signature	Certificate No.
Inspected This Eng IAW A 100 hr.		
it To be in Airworthy Condition at		
To Service	Hahn Th	343606686
I certify that this <u>Engine</u> <u>has been</u>		
inspected in accordance with <u>an Annual</u>		
inspection and is determined to be in an airworthy		
condition on <u>9-6-96 Bruce A. Saul</u>		
<u>Bruce A. Saul A 1275074</u>		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
9-1-96	Brought Forward →	1625.3	1625.3	Replace prop shaft Seal w/ New hoses. Replace Fed ALT hold down clamp w/new Replace Eng Air Filter w/new Replace Cabin Heat hose clamp. Performed 100 hr. Inspection List Comp Test As Follows. Remove, clean, gap, Test All w/7qts Aeroshell 100 Seal. Replace Found no metal. C/w AD of hoses. ALL AD's checked
Total To Carry Forward				

and Remarks	Signature	Certificate No.
P# LW13792 Replace OIL Cooler hoses Pump to Cabin hose w/new hose. Replace P# 78483-000. Rf Tighten OIL Filler Tube Filter P# BA104. * See 337* and STC Enclosed		
I Am The PIPER 181 Inspection Check 1) 74/80 2) 72/80 3) 74/80 4) 74/80 SPARK PLUGS. Drain Eng oil and S&C. Replace CH48110 oil filter. Cut open and 952613 OIL cooler hoses R/ Replacement and complied with		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →	1575.1	1575.1	Oil Change only Service w/ 7qts Aero Shell
				end
	TTE	1600.00	1600.00	Change Oil and Filter Service with 7qts Aero
				check OK.
	TTE	1600.0	1600.00	Complied with AD#
				Paragraphs 1a Thru 1c Visually
				Defects at this time.
Total To Carry Forward				

and Remarks	Signature	Certificate No.
No Filter Change @ This Time Sawt Oil Run up and Leak check OK.	Walt Flatt	343606686
Replace oil Filter w/ Chassis and Shell 100 Sawt oil Run up and Leak	Walt Flatt	343606686
95-26-13 and As Per AMOC #1 Inspected oil hoses and Found no	Walt Flatt	343606686

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
8-1-95	Brought Forward →	TTE. 1551.14	775mett 1551.14	Performed A 100 hr Inspection Check List Comp
				Clean, gap, and test ALL SPARK PLUGS R/R #1 Bottom SPARK PLUG.
				Change OIL + Filter Sec.
				R/R CH48110 OIL Filter - Cut
				R/R ALL Valve Cover gaskets.
				R/R #3 Rocker Pin Caps.
				Inspection and Found it to be in
Total To Carry Forward				

and Remarks	Signature	Certificate No.
Inspection I.A.W. P. Per PA 5181		
Check #1 77 /80 #2 74/80 #3 74/80 #4 74/80	ALL AD's Checked	
SPARK PLUGS R/R #1 Bottom SPARK PLUG.	THRU	8-01-95
with 74ts Aero Shell 100 SOWT and		
open Filter and Found no metal		
w/ Schwan regaskets.		
I have Inspected This Engine I.A.W. a 100 hr		
Airworthy Condition at This Time.	J. H. Flu	343606686
I certify that this engine has been inspected in accordance		
with an Annual inspection and is determined to be in		
an Airworthy condition on 8-1-95 Sued 6 Sued 24883074		

ENGINE LOG				
Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
5/27/94	TACH 1440			Changed oil & filter. Serviced to Aeroshell 15W50. Efts. Runing checked for leaks none found. (Hiller) owner
7-13-94	TACH 1460.83			Annual inspection completed this date to include the following maint. #1 cyl removed due to valve blow by and repaired. Reinstalled. New Starter installed
Total To Carry Forward				

Next Page

and Remarks	Signature	Certificate No.
New L/H Mag with impulse installed, All spark plugs Replaced, mag Timing set at 25° BTDC AD's checked through 94-13 This engine and prop were found to be Airworthy and are returned to service	Jimmie H. Jones A#P 260769/33TA	

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
12-15-93	1327.05	Tach. Performed 100 hr/Annual insp as per Piper PA28-181 insp guide & maint manual. Compression 1 (75) 2 (70) 3 (72) 4 (74). Changed oil & filter. Removed w/ 8 at aeroshell 15W50. Checked filter & screens for contamination. Found none. Replaced induction air filter (4w AD 84-26-02) Due AGAIN 1827.05 Tach. Replaced 4 ea Spark Plugs. Cleaned & gapped 4 plugs. Removed & insp Lt & RT Magns. Replaced impulse coupling Lt Mag w new. Installed & timed Magns to 25° BT. Cleaned all fuel filters. Removed #1 Cyl. head heater probe. Replaced Cabin Heater		
Total To Carry Forward				

and Remarks	Signature	Certificate No.
Nose from muffler to heat exch. Box. AD 81-18-04 Due at 2000 hrs Eng T.T. Kin Dayo 407869925 A+P		
I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH AD 100hr/Annual INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DATE <u>12-15-93</u> W.O.# <u>53</u> TACH/ HOUR METER <u>1327.05</u> TOTAL TIME <u>1327.05</u> SIGNED <u>J. Mankin</u> CERT.# <u>406 46 4595</u>		
3-15-94 1385.72 Tach. Changed oil & filter Serviced with aeroshell 15W50 BGTS. Run up checked for leaks - none found Lt Hottel owned		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
6-8-93	Brought Forward →	1204	1204	Cylinders #1 and 3
pulled back to ✓ for piston pin plug wear.				
Sound cyl. #1 plugs bad, installed new ones.				
Drained oil. Installed 8 Qts of aerathell 15w50				
oil and a new oil filter. Installed new exhaust				
flange gaskets. Engine runs up, test OK.				
Richard W Robertson				
BOE R548C				
Total To Carry Forward				

and Remarks	Signature	Certificate No.
8-19-93 TACH 1241.5 CHANGED OIL & FILTER, FILLED WITH 15W50. (K'd) Compression 1-742-73 3-76 4-76. <i>[Signature]</i>		
10-14-93 Tach 1285 changed oil & Filter serviced with 5 qt 15W50 oil, Flush cooler, Run up & check, checked oil temp 180°F 180°F 180°F		
11-15-93 Tach 1295.4 Dry Air Pump installed Model 211CC Serial No. 08A 500 4418. Run up checked with good pressure Mathew Sharp MP <i>[Signature]</i>		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
		11-13-93	TACH 1175.75	T.T. ANNUAL INSPECTION COMPLETED USING AN APPROVED INSP CKLIST. COMPRESSION #1 - 75/80 #2 - 74/80 #3 - 72/80 #4 - 75/80 OIL CHANGED TO INCLUDE NEW CH48110 FILTER. OLD FILTER INSPOK. SHALL 15W-50W ADSCD. CUBIC WASHER ADJUST. SPARK PLUGS CLEANED, GAPPED, TESTED. IGNITION LEADS TESTED. TIMING CKD OK. RBC GASKET SCREWS TIGHTENED. ENGINE CONTROLS SEA. ENGINE ELECTRICAL CKD. EXHAUST SYSTEMS OK. HEAT MUFFERS OK. PROP NICKS DRESSED. FACES PAINTED. CRANKSHAFT NOSE SEAL REPLACED. NEW ALT AGST METALLIC ALT MOUNT BRACKET BOLT REPLACED. GLOCK TAB. SWEENEY RUN UP OPERATIONAL CKD OK. AD'S CKD THRU ISSUE 92-22 →
Total To Carry Forward				

and Remarks	Signature	Certificate No.
→ AD 76-07-12 34401K SW OPSTCST CRACK EACH CONRT AUST AUS 1275.95 AD 7-14-77 CRANK ASSY INSD 5.3475 4 L1433 DUE IF PROPTIKS THROUS OR MAJOR AD 84-26-02 INDUCTION FILTERS DUE FOR REPLACEMENT AT 1480.4 TACH. DATE.....11/13/93..... TACH 1175.75..... I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ...ANNUAL... INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED.....James H. Reed..... No. 1A327504677	LEWIS UNIVERSITY AVIATION SERVICES TONEVILLE, ILLINOIS 60441	
5-12-93 Tach. 1198 changed oil Filter Run up Leak checks checked OK.	Ken Taylor BO ER548C	

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
4-20-92	Brought Forward →		1053.0	TT. CHANGED OIL PQTS AEROSHELL 15W50, CHANGED OIL FILTER CH48110 CUT OPEN OLD FILTER - SMALL AMOUNT OF METAL FOUND. OK - CHECK AGAIN AT NEXT OIL CHANGE. INSTALLED CF666-916 METAL FLOAT KIT & 1-16224 GASKET & 1- 25135 GASKET - C/W SP M8A1 R1 - REPLACEMENT OF COMPOSITE FLOAT - RUN ENGINE NO LEAKS NORTH POINT AVIATION, INC <i>[Signature]</i> AP360250947
Total To Carry Forward				

and Remarks	Signature	Certificate No.
6-7-92 TACH. & T.T. 1103.4 New CH48110 filter 8 qts aeroshell 15W50 cut open old oil filter + found minute metal particles. Check again at next oil change. ATP 1154289 Joseph S. Saipa Jr.		
6-18-92 - TACH 1118.2 HRS - REMOVED Starter Motor and Drive Due to Pinion Drive Failure - Unit Repaired by Clydesdale A/C Corp. CMH, Ohio (Ref W.O. #70733) See TAG this page. REINSTALLED SAME UNIT following Repair - Operational Check Satisfactory - James J. Lang - ID 2192105 for Rickland Aviation, MFD. O. W.O. #18558 / CRS # HF5R907M		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →	9/5/91	TACH 980.4	ENG. TT. 980.4 ANNUAL
INSPECTION COMPLETE USING AN APPROVED ANNUAL INSP. CHECKLIST.				
COMPRESSION #1- ⁷⁷ / ₈₀) #2- ⁷⁹ / ₈₀) #3- ⁷⁶ / ₈₀) #4- ⁷⁸ / ₈₀) OIL FILTER INSPECTED				
OK WITH NO UNUSUAL CONTAMINANTS. NEW FILTER INSTALLED. SH11 15W-50W				
ADDED. NEW INDUCTION AIR FILTER INSTALLED. TIMING CKD. IGNITION				
LEADS TESTED. NEW PCM 380 PLUGS INSTALLED. FUEL SYSTEM CKD				
EXHAUST & HEATMUFF CKD. INDUCTION SYSTEM CKD. MAGNETO TIMING				
ADJUSTED TO PROPR LYC SPECS. INSTALL NEW ALTERNATOR BRACKET				
BOLTS & LOCK PLATE. CK ENGINE ELECTRICAL. P.O.P NICKS DRESSER				
AND FACE PAINTED. ENGINE CONTROLS CKD. ENGINE RUN				
Total To Carry Forward				→

and Remarks	Signature	Certificate No.
→ UP AND OPERATIONAL CHECK OK.		
AD'S CKA THRU ISSUE 91-16.		
SLV AD 76-CT-12 (P-30.77) REMARK SWITCH BY OPSTEST. EACH 100HRS. EACH 500HRS		
SLV AD 84-36-2 (1-29-85) INDUCTION FILTERS BY REPLACEMENT NEXT DUE 14804 PER S.B. 475 REV A. EACH PROP STRIKE		
AD. 91-14-22 CRANKSHAFT INSP → S.B. 1638 BLACK TIP LOSS OF OORHAUL.		
DATE 9-5-91 TACH 980.4	LEWIS UNIVERSITY AVIATION SERVICES ROMEIOVILLE, ILLINOIS 60441	
I CERTIFY THAT THIS AIRCRAFT ENGINE HAS		
BEEN INSPECTED IN ACCORDANCE WITH A		
ANNUAL INSPECTION AND WAS DETERMINED		
TO BE IN AIRWORTHY CONDITION.		
SIGNED <u>Jan R. Reed</u> No. <u>IA327504677</u>		

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
11/12/90	818.57			Installed a Tanis heater. Changed oil (gts of Aeroshell w 80) cleaned oil screen. Ran and checked for leaks. heater was installed in accordance with Tanis Aircraft Services Instruction #100 North Point Aviation M. Shane Davis AIP # 344724359
Total To Carry Forward				

and Remarks	Signature	Certificate No.
3-29-80 Tach 858.7 Drained oil and changed filter. Checked filter for metal. None found. Re-serviced with 8 quarts Aeroshell 15W50.	Richard A. Sheppard	RP 347622056

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
7-11-90	802.55 TT			CHECKED & LUBRICATED ALL CONTROLS, CHANGED GRUMMET FOR CARB. HEAT CONTROL, CHANGED OIL 8 QTS AEROSHELL W-100 OIL, CHANGED OIL FILTER OH 4P110 - CUT OPEN OLD FILTER - NO METAL FOUND. COMPRESSION 1-75, 2-77, 3-77, 4-77, CLEAN + GAP SPARK PLUGS, REPAIRED LEFT FRONT BAPFLE, REPLACED #2 + #3 OYL ROCKER COVER GASKETS P/N SL 75906, CLEANED OIL PICK UP SCREEN, REPLACED EXH. GASKETS #2 + 4 OYL. REPLACED CARB. HEAT INDUCTION HOSE P/N 99944-002 - REPLACED 4-INTAKE HOSES P/N SL-69603 + 4 INTAKE GASKETS P/N SL-71973
Total To Carry Forward				REPAIRED ALTERNATOR BELT P/N 452-541

and Remarks	Signature	Certificate No.
TIGHTENED ALTERNATOR GROUND WIRE - REPLACED RIGHT + LEFT MAGNETS LEFT P/N 4271 S/N 90050273, RIGHT P/N 4270 S/N 90010163 SEE SLICK MAGNETO BLUE TAGS ATTACHED - SEE CHECK LIST.		
	NORTH POINT AVIATION INC <i>[Signature]</i> AP36080897	
Northpoint Aviation, Inc. Mt. Hawley Airport 1320 Bird Blvd. Peoria, IL 61615 Ph. 693-2872/1908	Date 7-16-90 T.T. (L) <i>[Signature]</i> I certify that this AC/Eng. has been inspected in accordance with a <u>Engine</u> inspection & has been found airworthy. Sig. <i>[Signature]</i> Cert. # <i>JA 539580657</i>	

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
Apr - 7 - 87	Brought Forward →			
TACH 697.9 Changed oil + filter AeroShell SAE 40, cleaned Plugs Check Engine + Components				
I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in Airworthy Condition.				
				Richard M. Hayes ATP 521-11-6402
5-2-88	TACH time 726.			
	40W Cleaned +			
Total To Carry Forward				gapped Plugs. Replaced

SAE 40
80 15-50
oil

and Remarks	Signature	Certificate No.
alternator See Maintenance Release Log dated April 20-88, Compression #1 73/100 #3 79/100 #2 76/100 #4 78/100		
Checked A.D.S to date. I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in Airworthy Condition.		
Richard Hayes ATP 521116402		
6-22-89 752.6 hr Tach changed oil and filter serviced with 8qt 80W AeroShell test Ran No Leaks I certify that this Power plant has been inspected in accordance with a 100hr inspection and was determined to be in Airworthy Condition		
Richard Sillman ATP 52672728		

ENGINE LOG

19	Date 84	Engine Time		Recorder Reading	Maintenance
		This Date	Since Major		
		Brought Forward →	11-02-84	comp #1 72/80 #2 72/80 #3 74/80 #4 76/80	
change oil AND Filter Added 8575 Phillips xc 20w50					
Replace all rocker cover gaskets, Replace carb air filter, Replace cabin heater hose, check mag timing, Dress and paint prop					
clean fuel pump, check muffler and					
Exhaust stacks for cranes, lube starter					
Bendix, clean oil cooler, check					
Add thru Pw 84-20, lube all					
Engine and heater controls.					
Total Time 587					
Tachometer ... 587 I certify that this (aircraft) (engine) has been inspected in accordance with a (a) (100 hour) inspection and was determined to be in airworthy condition.					
Dated 11-02-84 W.O. No. 63573					
Signed [Signature]					
Total To Carry Forward					

and Remarks	Signature	Certificate No.
July 2, 1985 tach 640.9 hrs. checked timing and retimed R.H. magnets. Removed, cleaned, checked gaps and reinstalled spark plugs. Suspect spark plugs were installed new at last 100 hr inspection at 587 hrs because of like new condition. George Lee A+P 501629779		
Feb. 28, 1986 tach 657.5 hrs. Compression check #1-73, #2-74, #3-77, #4-74 over 80 I certify that this engine has been inspected in accordance with a 100 hr. inspection and was determined to be in airworthy condition. George Lee A+P 501629779.		

ENGINE LOG

Date 1983	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
10-05-83	Comp #1 78/80 #2 76/80 #3 76/80 #4 76/80 changed oil and filter, added 89TS Phillips xc 20w50, checked mm7 Timelius, cleaned and gripped pluss, repaired Ign head #4 cylinder, dressed prop, c/w AD 80-14-02 Installation of Throttle Kit, lubed Engine controls AD 81-18-04 oil pump due at 2000 hrs.			
			Total Time... 478.22	
			Tachometer 478.22	I certify that this (aircraft) (engine) has been inspected in accordance with a () () () () inspection and was determined to be in airworthy condition.
			Dated 10-05-83 W.O. No. 063179	
			Signed <u>Don Quahl</u> F.A. 1964.332	
Total To Carry Forward				

and Remarks	Signature	Certificate No.
04-19-84 TACH 518 Installed Rebuilt STARTER Plw MZ-4218 S/W 12406 Engine Run AND OPS check O.K. <u>Don Quahl</u> F.A. 1964.332		
06-20-84 TACH. 533.0 change oil and filter Added 89TS Phillips xc 20w50 <u>Don Quahl</u> F.A. 1964.332		
9-4-84 Tach: 578.64 Hrs. Replaced starter with overhauled unit from Aircraft Accession Run-up check Ok. <u>Charles S. Bugg</u> AD 1857605		

ENGINE LOG

Date	Engine Time 411.7		Recorder Reading	Maintenance
	This Date	Since Major		
9-1-82	Brought Forward →	Cleaned, gapped & checked spark plugs. Checked mag timing - O.K. Compression check - O.K. #1 $\frac{16}{80}$ #2 $\frac{12}{80}$ #3 $\frac{18}{80}$ #4 $\frac{16}{80}$. I certify that this engine has been inspected in accordance with a 100 hr. inspection and determined to be in an air-worthy condition. Karl W. Oakleaf A/P 515 466203		
		COFFEYVILLE AIRCRAFT INC. TACH 411.7 I CERTIFY THAT THIS Eng HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION. <i>[Signature]</i> TA196432		
Total To				09-01-82

[illegible]

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
4-19-80			244.8	OIL CHANGE
7-18-80			266.2	OIL CHANGE
Total To Carry Forward				

[illegible]

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
10-27-78	Brought Forward →		94.5	CHANGED OIL & FILTER
July 6-79	Tach 155			
I certify I have inspected this engine in accordance with an annual insp and determined to be in AIRCRAFT condition Dep O. Lal ATZ 1869070				
Total To Carry Forward				

Total To Carry Forward	
------------------------	--

[illegible]

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
6-8-78			43.0	changed oil and Filter. mobile 50wt Comp check OK. washed and ran Eng. Good checked OK.
Total Time	43.0	Date 6-8-78		
I certify that this aircraft has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition.				
<i>Bill Perry</i> Mechanic's Signature NO 02346				
FOR: CATALIN AVIATION CO. BOX 59906 HGR. 8-B, WILL ROGERS FIELD OKLAHOMA CITY, OKLA. 73159 Repair Station Certification No. 2008				
Total To				

ENGINE DESCRIPTION

Manufacturer: Lycoming Serial No. L-23430-36A
Williamsport, PA Horsepower: 180
 Model: O-360-A4111 FAA T. C. No. E-284

[illegible]