

MIDSTATES AIRCRAFT
ENGINES, INC.

The Standard



ENGINE LOG

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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DATE 03/20/2023 N12RD PA-24-250 TACH 2180.7

CORRECTION HAS BEEN MADE ON ENGINE RECORDS LYCOMING IO-540-A1A,TSMOH BASE ON LOG BOOK ENTRY DATED12/10/2013 WITH TACH,TIME OF 2027.1 AND TSMOH OF 1491.9 AND THE ACTUAL TACH,OF 2180.7 THE ENGINE TSMOH IS 1645.0.


CARLOS ALVAREZ A&P 3683673

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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FLIGHT LINE AVIONICS, INC.
SUPPLEMENTAL LOGBOOK ENTRY
CRS F18R921Y

AIRCRAFT REG: N12RD S/N: 24-368
MODEL: PIPER 24-250 TOTAL TIME: 2208.89 TACH
DATE: 9/19/2023

Performed altimeter static system test and automatic pressure altitude reporting system and the following listed are found to comply with the requirements of far 91.411 IAW Appendix E of Part 43.
Tested to 20 thousand feet.

ADI			HSI		
COMPONENT	P/N OR MODEL	S/N	DATE	COMPONENT	P/N OR MODEL
ALTIMETER	G5	4IQ046556	9/19/2023	ALTIMETER	G5
STANDBY					
COMPONENT	P/N OR MODEL	S/N	DATE	COMPONENT	P/N OR MODEL
ALTIMETER	5934P-1	H3106	9/19/2023	ALTIMETER	5934P-1
Performed transponder test and the following listed are found to comply with requirements of FAR 91.413 IAW Appendix F of Part 43.					
TRANSPONDER	P/N OR MODEL	S/N	DATE	TRANSPONDER	P/N OR MODEL
NO.1	GTX 345	3EG041816	9/19/2023	NO.1	GTX 345
NO.2	N/A	N/A	N/A	NO.2	N/A

Details on file at this Repair Station under Work Order # 13183

Signed:  Due Next: 9/2025
TODD JOHNSON

North County Airport
11550 Aviation Blvd, Ste #3
West Palm Beach, FL 33412
(772)528-4881

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.)
6/17/22	2161	97		REMOVED AND REINSTALLED CYLINDERS #1 AND # 6 FOR INSPECTION OF CAM SHAFT AND LIFTERS VISUAL COMPRESSION TEST #1-78 #2-70 #3-75 #4-71 #5-72 #6-72 INSPECTION INCLUDED BORESCOPE OF ALL CYLINDERS, INSTALLED NEWLY OHC CYLINDER ON #6 POSITION S/N 76046-1/A14448, Cyls INSTA llation WITS P/NSL12032-5C, REPLACED ALL CYLINDER CYLINDER FLANGE CASUOKS P/NSLTT 611, REPLACED AND REPOSTED BROWER JOSE PERFORMED GROUND RUN AND LEAK CK, OK ALL WORK IAW Piper S.M. AND FAR 43, APPENDIX D ⁶ FOUND THIS AIRCRAFT AIRWORTHY, IN REGARD TO WORK PERFO RMED. C.A. A/P 3683673

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6/1				70 16 125 perform
DATE 11/15/2021	N12RD	PA-250	TACH:	
REPLACED LEFT & RIGHT SEALS ON MAIN STRUTS WITH KIT P/N TP24MS-1 ALSO REPLACED SEALS ON NOSE STRUT				
ASSY, WITH KIT P/N TP24MS-1 SERVICED STRUTS WITH AEROSHELL #4 HYDRAULIC FLUID AND NITROGEN ALL WORK				
IAW, PIPER SERVICE MANUAL.				
CARLOS ALVAREZ A&P 3683673				
DATE 11/23/2022	N12RD	TACH: 2180.75	PA-24-250	LYC, 10-540-A1A SMOTH 2180.44 MC B3D32C412-C SMOTH 367.55
CHANGED OIL AND OIL FILTER P/N48110-1				
COMPRESSIONS AS FOLLOW 1/74-2174 -3172 =4/72 -5174 -6174				
SERVICED WITH 11 QTs PHILLIPS XC 20W-50, INSPECTED AND TESTED ELT IAW 91-207[D] BATT, DUE 2024, REPLACED MLG BUNGIES				
PER AD NOTE 77-13-21 P/N8097, NEXT DUE 500HR OR 2025, CW AD NOTE 65-25-03 NLG LINK CLEVIS, CW AD NOTE 68-13-03 F CELL				
COLLAPSE, CW AD NOTE 75-12-06 FIN FWD SPAR, CW AD NOTE 94-13-10 STAB, TORQUE TUBE, CW AD NOTE 15-19-07, NO DEFECTS				
NOTED DURING INSPECTION, I CERTIFY THAT THIS AIRFRAME, ENGINE, PROPELLER, HAS BEEN INSPECTED IN IAW AN ANNUAL/100hr				
INSPECTION, AND IAW FAR 43 APPENDIX [D] AND HAS BEEN FOUND IN AIRWORTHY CONDITIONS.				
CARLOS ALVAREZ A/P 3683673 1A				

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09/20/2021 N12RD TACH: 3091.770-540-A1A-5 S/N L-721-40

CHECKED COMPRESSIONS ON CYLINDERS AS FOLLOW: 1/71-2/61-3/70-4/67-5/60-6/68, REPLACED SPARK PLUGS
CHANGED OIL SERVICED WITH 11 QTS PHILLIPS X/C 20W-50 FILTER P/N 48110-1, REVIEWED AD NOTES AT THIS TIME
AD 15-19-07 C/W NEXT DUE 2185.30 OR AT

NEXT ANNUAL, RUN UP, AND LEAK CK OK.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW, ANNUAL INSPECTION IAW, FAR 43 APPENDIX
D AND HAS BEEN FOUND IN AIRWORTHY CONDITION AT THIS TIME.


CARLOS ALVAREZ A&P 3683673 IA

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FLIGHT LINE AVIONICS, INC. SUPPLEMENTAL LOG BOOK ENTRY

Aircraft Reg. # N12RD S/N: 24-368 Model: PIPER 24-250
TT: 2093.25
Performed altimeter static system test and automatic pressure altitude reporting system and the
following listed are found to comply with the requirements of FAR 91.411 IAW Appendix E of
Part 43. Tested to 20 thousand feet.

Altimeter (Pilot-ADI) Model: Garmin G5 S/N: 4JQ046556 Cal Date: 27SEP2021
Altimeter (Pilot-HSI) Model: Garmin G5 S/N: 4JQ046040 Cal Date: 27SEP2021
Altimeter (Stdby) PN: 5934P-1 S/N: H3106 Cal Date: 27SEP2021

Performed transponder test and the following listed are found to comply with requirements of
FAR 91.413 IAW Appendix F of Part 43.

Transponder #1 Model: GTX 345 S/N: 3EG041816 Cal Date: 27SEP2021

Details on file at this Repair Station under Work Order # 12598

Signed: 

North County Airport
11550 Aviation Blvd. Suite 3
West Palm Beach, FL 33412
(772) 528-4881
CRS F18R921Y

DUE NEXT: SEP2023

ENGINE MODEL:
ENGINE S/N:
REG. NO. N12RD
WORK ORDER:
2132-03-2022



South Florida Aircraft Maintenance

701-4 NE 10TH ST.
Pompano Beach, FL 33060
Phone: 561-701-1406

DATE: 3/22/2022
A/C EL. TS:
TACH: 2132-03-2022

Engine Entries

(2) CHANGED ENGINE OIL AND FILTER CH48110-1, INSPECTED OIL FILTER FOR CONTAMINATION, NONE FOUND.
SERVICED ENGINE WITH 12 QTS OF AEROSHELL W15W-50 AND NEW FILTER. POST MAINTENANCE ENGINE RUN
SATISFACTORY, LEAK CHECK GOOD.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT AIRFRAME, ENGINE,
PROPELLER, AND/OR APPLIANCE WAS REPAIRED AND INSPECTED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE,
OR APPLIANCE MM AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE UNDER THIS WORK ORDER AT SOUTH
FLORIDA AIRCRAFT MAINTENANCE.

SIGNED:  BRENTT P. NICHOLAS, A&P-4094581

DATE: 3/22/2022

Work Order: 2132-03-2022

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7-1-2011	1955			100 ^{hr} / Annual Inspect c/w FAR FAR 43 App D Replaced #1 cld with a new ECI S/N 78628-01 installed All New Intake Hoses Replaced CARB Heat Hose with New CARB Heat Shield & RA Exhaust Stack repaired by Aerospace ex. w/o # 00001008 0000101. All comp checked good, cleaned gap spark plugs. Drained oil & R Filter. Added 1 qt 100W New Filter. All AD's up to date at this time Return back to service
DATE <u>7-1-2011</u> N <u>SPD</u> I CERTIFY THAT THIS <u>ENG</u> <u>100/Annual</u> HAS BEEN INSPECTED I.A.W. AN <u>INSPECTION</u> AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. ACFT. HRS. _____ TACH. HRS. <u>1955</u> DAYNE BROSIUS A&P 304647440 IA				

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October 4, 2012	Tach: 1987.3 hr.			N2RD Engine Total Time: 4398.4 hrs. Engine SN: L-721-40 Engine TSO: 1452.1 hrs. Complied with 100 hour inspection as per Piper Aircraft Corporation's Inspection Report 230-203 dated April 1 2009. Work also performed: Replaced two fuel flex hoses to engine from firewall, replaced all six exhaust gaskets, oil and filter change serviced engine with Aeroshell AD 100. Barry Squire A&P 3473584 <u>Barry Squire</u>
N2RD Lycoming O-540-A1A-5 Tach: 2042.3 Complied with Engine 100 hour type inspection per CFR 14 Appendix D to part 43. Following AD's addressed: > 2005-12-06 riveted impulse coupling assemblies. 500 hour inspection not due until Tach: 2361.9. Compressions check as follows: #1 78/80, #2 72/80, #3 62/80, #4 60/80, #5 76/80 and #6 72/80. No oil change at this time due to only 15 hou last changed. Cleaned and gapped all spark plugs and checked mag. timing.				3/27/15 S/N: L-721-40
This Engine has been inspected and found to be airworthy in accordance with Appendix D to Part 43 100 hour inspection and current FAA Regulations. Barry Squire A&P 3473584 <u>Barry Squire</u> 3/27/15				

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LONDON AIRCRAFT SERVICE CENTER, INC.
150 Aviation Drive South
Naples, Florida 34104
TEL: (239) 643-4468

REG. N2RD TYPE PA-24-250 S/N 24-368 TACH 1861.9 HOBBS DATE 11/04/02
Lycoming O-540-A1A5 S/N L-721-40 TSO 279.4
Annual inspection completed this date in accordance with the airframe manufacturers inspection check list.
Compression test results, #1 74/80 #2 75/80 #3 72/80 #4 70/80 #5 74/80 #6 71/80. Replaced right exhaust
stack to muffler clamp. Replaced fuel pressure sense line ferrule and nut. Replaced muffler heat shroud
retaining channel. Replaced exhaust flange studs at #2 & #6 cylinders. Removed and reinstalled engine for
mount replacement. Left magneto overhauled. right mag. repaired and AD 96-12-07. impulse couplings.
inspection performed on both mags by Executive accessories. AD's checked and complied with through
Issue 20002-21 and compliance list updated. AD 91-14-22. crankshaft gear, by installation of gear P/N
67514 S/N S124707-10 per SB 475B. Next due at overhaul or prop strike. AD93-11-11. AC Fuel Pumps. not
applicable by pump S/N and no work by A.A.I. AD 96-09-10. oil pump, by record search. previously
complied with by installation of impeller kit. Superior Airparts P/N SL18109-S. at engine overhaul 12/6/91
a tach 1582.5. AD 2002-20-51. crankshaft bolt. not applicable by manufacturer and P/N. Superior Airparts
P/N SL-STD-2209 bolt and LW-18638 lock plate installed during accomplishment of AD 91-14-22. It is
certified that this engine has been inspected in accordance with an Annual inspection was determined to be
airworthy and is released for return to service.

WORK ORDER# 7491 SIGNATURE Patrick C. Dean CRS# L3HR317N

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HIGHLAND AVIATION, 2409 SPARTA HIGHWAY, CROSSVILLE TN 38572

ENGINE

DATE 1-1-04 N2RD TACH 1877.64 TSMOH 1341.6 ENGTT 4288.6
ENG MODEL O-540-A1A5 S/N L-721-40

Complied with an Annual inspection on this engine. Complied with AD research to this date.
Drained the oil and serviced the engine with 10 qts. of Exxon Elite 20W50 oil and installed a new
Champion CH48111 oil filter. Compression test results were as follows: #1 70/80 #2 76/80 #3
70/80 #4 70/80 #5 74/80 #6 74/80. Replaced three leaking valve cover gaskets. Replaced a missing
exhaust manifold stud on the #2 cylinder. Replaced both fuel pump gaskets p/n 751-872. I certify
this engine has been inspected in accordance with an Annual inspection and was determined to be
in airworthy condition. END

JOHN KEIGANS AP257351579IA

HIGHLAND AVIATION, 2409 SPARTA HIGHWAY, CROSSVILLE TN 38572

ENGINE

DATE 4-22-05 N2RD TACH 1879.44 TSMOH 1343.4 ENGTT 4290.4
ENG MODEL O-540-A1A5 S/N L-721-40

Complied with an Annual inspection on this engine. Complied with AD research to this date.
Compression test results were as follows: #1 76/80 #2 74/80 #3 72/80 #4 72/80 #5 76/80 #6 73/80.
I certify this engine has been inspected in accordance with an Annual inspection and was
determined to be in airworthy condition. END

JOHN KEIGANS AP257351579IA

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.)
06/21/00				DRAINED OIL, REPLACED FILTER, REFILLED
18396				WITH PHILIPS 20W50. CLEANED AND
				GAPPED ALL SPARK PLUGS. REPLACED
				POINTS AND CONDENSORS IN MAGNETOS.
				CHECKED COMPRESSIONS, ALL 70/80
				OR BETTER. REPLACED INLET AIR FILTER.
				CHECKED ALL FLUID LINES FOR
				LEAKAGE AND SECURITY. TUNED
				ENGINE AND TEST RUN. THIS
				ENGINE INSPECTED IAW AN
				ANNUAL INSPECTION AND FOUND
				AIRWORTHY. C. W. W. 486621201 IA

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4-29-5	1711.79			INSPECTED ENGINE IAW MANUFACTURERS CHECK LIST. COMPRESSION CHECK 1)77, 2)78, 3)77, 4)76, 5)77, 6)77. CHECKED TIMING, PLUG & WIRES. TIGHTENED ALL ROCKER COVER SCREWS. WASHED ENGINE & TEST RUN.
It is certified this Aircraft or Engine has been inspected in accordance with a <u>ANNUAL</u> inspection, as outlined in FAR 43, and was determined to be in airworthy condition. Details of this inspection are on file at this repair station under Work Order Number <u>1896</u>, Dated <u>1711.79</u> Total Time _____ Tach Time _____ Signature <u>Cuthbert</u> SUN AIRCRAFT SERVICES USA, INC. 140 Aviation Dr. So., FAA C.R.S. #UNGR 574L Naples, Florida 33942				

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11-28-95	1723.66			Removed and replaced LH exhaust stack assy Part # K21664-02 S/N 4635/47760 reinstalled EGT Harness ops check good ————— End ————— Kenneth P. Hoffman AP 411315576
6-7-96	TACH 1731.06			DRAINED OIL, CLEANED SCREEN, REFILLED WITH PHILLIPS 20W50. REPLACED SPARK PLUGS, DEPLETED POINTS R/H MAGNETO. CHECKED COMPRESSION. WASHED ENGINE AND TEST RUN. THIS ENGINE INSP. IAW AN ANNUAL INSPECTION AND FOUND TO BE AIRWORTHY. Cuthbert 486627201IA

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.)
2-1-94	TACH		11664.2	INSPECTED ENGINE & PROP IAW MANUFACTURERS INSTRUCTIONS. DRAINED OIL REFILLED WITH AFTULLIPS 20W50. COMPRESSION CHECK. 1) $76/80$, 2) $78/80$, 3) $77/80$, 4) $78/80$, 5) $76/80$, 6) $77/80$. CLEANED PLUGS, CHECKED TIMING. AND MAGNETOS. REPLACED #2 ROCKER COVER GASKET. TIGHTENED INTAKE CLAMPS. WASHED ENGINE AND TEST RUN.
				It is certified this Aircraft or Engine has been inspected in accordance with <u>AVX005</u> inspection, as outlined in FAR 43, and was determined to be in airworthy condition. Details of this inspection are on file at this repair station under Work Order Number <u>1212</u> , Dated <u>2-1-94</u> Total Time _____ Tach Time <u>11664.2</u> Signature <u>Curtis</u>
				SUN AIRCRAFT SERVICES USA, INC. 140 Aviation Dr. So., FAA C.R.S. # UNGR 574I Naples, Florida 33942

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.)
1-14-93				Engine has been inspected Compression #1 80/77 #2 80/75 #3 84/76 #4 84/75 #5 80/76 #6 80/76 In accordance with a 100HR inspection and was determined to be in airworthy condition. Inspection Authorization No. <u>ADD 11570-9309</u> Signature <u>J. E. White</u> Checked timing removed both MAGS retimed to 250 B.T.C. cleaned & gapped all spark plugs. cleaned distributor. lubed all engine controls Added one washer to oil pressure spring. checked muffler & complete exhaust system. checked & lubed starter Bendix. Visual complete engine controls, fuel lines oil lines alternator belt & assembly, wash down run up 11493 the 1617.99 count up, check engine cowl door. Satisfactory. I certify that this <u>engine</u> has been inspected In accordance with a <u>visual</u> inspection and was determined to be in airworthy condition. Inspection Authorization No. <u>161657</u> Signature <u>J. E. White</u>

DATE 19 <u>93</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.)
9-22-93	TACH 16		53.23	DYNAMIC BALANCE OF PROPELLOR. USING CHADWICK HELMUTH EQUIP. The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and in- spected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # <u>1043</u> Date: <u>9-22-93</u> Signed <u>Cuthbert</u> SUN AIRCRAFT SERVICES USA, INC. FAA C.R.S. 140 Aviation Drive So. UNGR 574L Naples, FL 33942

DATE 1987	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.)
May 25	1987			Tach 1372.0, SMOH - 836.0, STO - 477.0 Eng IT - 3783.0, Prop SMOH - 1130.0, Removed cowling & spinner, clean & degrease engine & lower aircraft belly. Drain oil, clean & refilled w/ 100/50W. Clean all fuel pumps & strainers & resafety. Clean gapped & rotated all spark plugs. Compression ck as follows: #1 80/70 #2 80/70 #3 80/72 #4 80/70 #5 80/72 Clean carb. inlet screen. Engine ground ran & leak checked OK, checked all system for proper operation. Engine Inspected IAW FAR 43 app. D. for Annual Inspection. Don T. Burrows AEP 4619895031A
ENG. CERTIFY THAT I HAVE INSPECTED THIS AIRCRAFT IN ACCORDANCE WITH THE INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. DATE 5/25/87 SMOH - 836.0 Don T. Burrows AEP 4619895031A				

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				RED BIRD AERO NO. 204-16 DALLAS, TEXAS 75235 4631 S. HAMPTON I certify that this aircraft has been inspected in accordance with a <u>annual</u> inspection and was determined to be in airworthy condition. Details of inspection on file under V.O. No. <u>5311</u> Date <u>7-29-87</u> Total time (or task, reading) <u>1440</u> hrs. Signed <u>[Signature]</u> Title or No. <u>Gen Manager</u> SMOH 900.0

DATE 1986	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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April 15, 1986 Tach 1366.0, 5MOH - 830.0 - 5TOH - 471.0
 Engine II - 3777.0 Prop 5MOH - 1124.0 Remove, Clean & degrease engine. Drain oil clean & inspect screen. Refill 100/50W Aeroshell. Clean gapped & rotated all spark plugs. Compression Checked all cylinders 80% on better. Install new Brackett Air filter. Clean fuel sumps & strainers. Clean carb. Airlet screen. Removed LH exhaust system, restudded #2 cylinder. Replaced all exhaust gaskets. Inspect exhaust system for cracks & reinstalled. Inspect engine & prop bolts for security & proper attachment. Engine ground ran & operational ok & leak checked satisfactorily. Checked engine & Ass AD's thru 81-18-04. AD # 84-26-02-DNA has Brackett plus

ENG I CERTIFY THAT I HAVE INSPECTED THIS
 AIRCRAFT IN ACCORDANCE WITH 100 HR. INSPECTION
 AND DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE 4/15/86 5MOH - 830.8

Dan T. Burrum A/P 461989503

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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4-15-86 TACH 1366.0 Eng. 5MOH 830.0 Eng. TT 3777.0
 I certify this Engine was inspected I/A/W an Annual Insp
 per FAR 43 Appendix D & was determined to be in Airworthy
 Condition. Russell Bellard A-P1570690 IA

Comp. Ck #1 80/70 #2 90/70 #3 80/69 #4 80/74 #5 80/70 #6 80/70

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
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Jan 1, 1985 (B) Tach. 1338.0, T-SMOH-802.8, T-STOH-443.0
 Engine T- 3,749.0, Prop SMOH-1,096.0, Removed
 Cowling & spinner. Cleaned & degreased, engine & cowling.
 Drained oil & Cleaned & resafetied screen. Cleaned ther-
 static bypass screens. Refilled 12 gts Cessna 100/50. Inst-
 alled new Autolite spark, ck plug gpts clean wire insulation
 R & R propeller, Dexludge crankshaft & Prop. Resafely prop.
 Lubricated prop & Reinstall spinner. Removed exhaust system
 & re-studded all cylinders. Welded Repair to LH & RH stacks
 Inspect muffler & shroud. Reinstall using new copper gaskets
 new nuts & lockwashers. Install new Cessna hose on
 engine. Clean & Repaint eng. mount. Install Brackett Air filter
 (see 337 this date). Clean & resafely, fuel pumps, carb. bowl & inlet
 screen. Tighten Carb. lth & resafely. Sheet metal repair to
 nose cowl. & RH front engine baffling. Dressed & repainted prop
 Re-flow #3 cyl. primer line. Engine ground ran & leak ck. satis-
 factory. Ck A/D's to Date. Complied with AD #78-09-07. SN SHARAN
 Reinstall Cowling. Row T. Burrows A#P 461989503

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
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I CERTIFY THAT I HAVE INSPECTED THIS
~~ENGINE~~ IN ACCORDANCE WITH 100 HR. INSPECTION
 AND DETERMINED TO BE IN AIRWORTHY CONDITION.
 DATE 1/1/85 MRS. 802.8 SMOH
 Row T. Burrows A#P 461989503
 JANUARY 1, 1985 (B) TACH 1338.0 HAS. SMOH 802.0 STOH-443.0
 I certify this Engine was inspected. I/AM AN ANNUAL insp.
 per FAR 43 appendix D & was determined to be in Airworthy
 Condition. Russell Bellard A-P 1570690 I A.
 10 JUNE 85 REMOVED L MAG - INSTALLED NEW
 POINTS REINSTALLED TIMED OK'D OK TO
 RETURN TO SERVICE Roy E. Tribbey A#P 1574773
 TACK

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.)
6-14-79	tax	10	37.43	replace mag gear # 10-159197 in L.H. mag ground run up OK at this time CR Bulbs for CRS713-9 E10J
1-2-80	tax	19180		change oil, clean screen, clean & regap spark plugs, inspect & lubricate all controls as necessary, ck compression, run up ck for leaks. I certify this engine has been inspected in accordance with 100hr inspection & found in airworthy condition. I certify that this engine or engine has been inspected in accordance with a 100hr or annual inspection and was determined to be in airworthy condition. David Cordwell 405587515 A.P. Bob Gillaspie A. & P. 1905584 1A.

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.)
9/5/81	131603			change oil, clean screen, add 11 qts 50cc shell B.Hall
9/5/81	Lock time 1316.0 hr			I Certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition Bob Gillaspie A.P. 1905584 1A.

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.)

OCTOBER 13, 1978

W/O: 78755

LYCOMING: O-540-A1A5

S/N: L-721-40

Engine top overhauled in accordance with Lycoming overhaul manual 60294-7. Reinstalled standard chrome cylinders, with the following new parts: (6) 75089 pistons, (1) 78290 lifter, (1) 65074 lifter cap, (6) 74541 exhaust valves, (6) 74230 exhaust guides, (3) 60028 Intake Guides, (12) 60828 Piston Pin Plugs. All new rings, gaskets and seals. Installed new spark plugs. Magnetos overhauled.

TOTAL TIME: 3216.1
TIME SCMOH: 269.8
TIME STOH: 0.0

MECHANIC: Don Paul

A&P: 1922268

This engine was tested against defect in materials and workmanship for the next 10 years on the cylinder Don Paul

MID-STATES AIRCRAFT ENGINES

Hanger 1, Tulsa International Airport

PHONE (918) 635-8583

TULSA, OKLAHOMA 74115

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.)

1-23-79

Replaced Left Mag and Re-Timed, Ops CK
OK. TACH 895.27 W/O# 5636.

— END — James R. Johnson
402-80-2275

— AIRCRAFT ASSOCIATES, Blue Grass Field
Lexington Ky 40511

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.)
July 1, 1978		Tach time	742.1	change oil, clean screen, clean + regap plugs & ignition timing set oil pressure up replaced #1, #3, #5 valve cover gaskets wash down run up & for leaks o.k., & compression o.k.
				I certify that this aircraft or engine has been inspected in accordance with a 100-Hr or annual inspection and was determined to be in airworthy condition.
				<i>Bob Gillaspie</i> Bob Gillaspie A. & P. 1905584 1R <i>David Caldwell</i> 405 587815

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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9/1/77

W/O: 77659

LYCOMING: O-540-A1A5

S/N: L-721-40

Engine major overhauled in accordance with Lycoming Overhaul Manual 60294-7. Engine was not test run. All steel parts magnafluxed, all aluminum parts zygloed. Installed standard chrome cylinders, new 75089 pistons, 72877 camfollowers, 73290 lifters, LW13523 connecting rod bushings, 73810 crankshaft bushings, 74541 exhaust valves, 73938 intake valves, LW10647 dowels, 75190 camshaft, 74644 rod bolts, & LW12186 rod nuts. All new bearings, rings, gaskets, seals, and engine lord mounts.

TOTAL TIME: 2946.3

MECHANIC: *Don H. Kipler*

TIME SCMOH: 0.0

A&P: 2213875

MID-STATES AIRCRAFT ENGINES
Hangar 1, Tulsa International Airport
PHONE (918) 835 9553
TULSA, OKLAHOMA 74115

DATE 19__	RECORDING TACH TIME	TIME SMAFT 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 5	535.2	535.2	2946.3	INSTALLED ENGINE ON AIRCRAFT S/N 24-368
		- 0 -	2946.3	REGISTRATION No. N12RD PIPER PA24-250
				INSTALLED NEW AC SPARK PLUGS
				INSTALLED OLD MUFFLER OFF OLD ENGINE
				S/N L-249-40, MODEL O540-A1A5
				INSTALLED OLD HARNESS, FUEL PUMP, OIL
				SCREEN, ALT, AND CARB. INSTALLED NEW
				LOD MOUNTS, ALSO NEW OIL COOLER
				HORN WITH AIRGUN FITTING. NEW
				ALT BELT. INSTALLED PROP HC82XF-10
				S/N 2986. Charles C. Meach
				ATP 453 962210.
2-24-78	598.21	TACH TIME	598.21	CHANGED OIL & CLEANED SCREEN. INSTALLED 11qt AND Shell
				80 (40 weight) oil. Bill Hall #2175205

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL O-540-A1A5
 SERIAL L-721-40 TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT _____

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

Mid-States Aircraft Engines, Inc.
 warrants this engine for 100 hours
 or 6 months on parts and labor,
 and prorated to 1,000 hours or 36
 months on parts.

John Hill

Standard

ENGINE LOG