1993– 10/2004

THE adlog™ AIRCRAFT MAINTENANCE RECORDKEEPING SYSTEM

AIRFRAME
MAINTENANCE
RECORDS

THE adlog T.M. AIRCRAFT MAINTENANCE RECORDKEEPING SYSTEM

AIRFRAME MAINTENANCE RECORDS

Log No.

Aircraft Registration No. N7069D

Aircraft Mfg. Piper Model PA31-310 Serial No. 31-7812081

Engine Mfg. Lyc Model TIO-540-A2C Serial No. L-6018-61A
Engine Mfg. Lyc Model TIO-540-A2C Serial No. RL-3451-61A

Propeller Mfg. Model Serial No.
Hub Design No. Hub Serial No.
Blade Design No. Blade Serial No's.

Propeller Mfg. Model Serial No.
Hub Design No. Hub Serial No.
Blade Design No. Blade Serial No's.

(All applicable information must be filled in)

AERO TECH PUBLICATIONS INC.
P.O. BOX 6005/FREEHOLD, N.J. 07728
(908) 462-5330

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Page No.

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N7069D		**TOTAL** brought forward from previous page	

Summary of Times at Start of US Logs:
Airframe T.T. 5783.5 Hrs
RH Prop Disassembled & Insp. at 5541.3 Hrs (1-25-90)
LH Prop OVH at 5751.8 Hrs (5-12-93)
Heater OVH at 5718.5 Hrs (1-24-91)
RH Prop Time since OVH 998.6 (3-14-79)
Time on Aug 18, 1993 was 5797.6 - AD 93-16-14 Due at 5847.6

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TOTAL—Carry forward to next

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
08-03-93	5783.5	—	I certify that this aircraft has been inspected in accordance with an annual inspection and a list of discrepancies and unairworthy items has been provided to the owner Date 08-03-93. JAMES H. MURER James H Murer 002049737 IA

PILOT

A/C TT 5783.5 The altimeter and static system were tested IAW FAR 91.411 and found to comply with FAR part 43, app E,para(a)&(c).
The altimeter was tested to 35,000 K feet on 8-12-93
by CSR # VEIR555K, refererance 15087
ACE Avionics, Inc. Dallas, Texas 214-330-1111 FAA CRS QELR373K
Date 8-12-93 W.O. 2121 Signed:

COPILOT

A/C TT: 5783.5 The altimeter and static system were tested IAW FAR 91.411 and found to comply with FAR part 43, app E,para(a)&(c).
The altimeter was tested to 35,000 K feet on 8-12-93
by CSR # VGIR555K, refererance 15087
ACE Avionics, Inc. Dallas, Texas 214-330-1111 FAA CRS QELR373K
Date 8-12-93 W.O. 2121 Signed:

A/C TT: 5783 This transponder, Model # KT76A S/N 27718 was tested IAW FAR 91.413 and found to comply with FAR part 43, appendix F and is approved for return to service.
Ace Avionics, Inc., FAA Repair Station QELR373K

DATE: 8-12-93 W.O. 2121 Signed:

	SUB-TOTAL this page
	TOTAL—Carry forward to next page

8/11/1993 Hr. Mtr. T.T.5783.5

100 hr. inspection per Piper maint. manual.
Landing gear retraction,& emer. extention checked.hyd. sys. Installed new hyd. filters, serviced with H5606 fluid, all flight control deflection per type cert. data sheets.
All unairworthy items found during annual Insp.were corrected.Aircraft wieghed,see wieght and balance re
I certify this airframe was inspected in accordance
100 hr. insp. and was found to be in airworthy cond.

J.W. Moore
A+P C+64689268

Page No. ______

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
Aug. 13, 1993	5783.5		I find that the Airplane meets the requirements for the certication requested and have issued a standard (Normal cat.) Airworthiness certificate dated 8-12-93. The Next Annual inspection is due 8-03-94. Jonathan Corby DAR-118-FS-SW
12-13-93		HOBBS 4470.6	REPLACED RIGHT ENGINE VACUUM PUMP WITH OVERHAULED - AERO ACCE. INC. SERVICEABLE PUMP - SEE YELLOW TAG - RAN ENGINE - OP'S CHECKED GOOD Kenneth L Bon A&P 185001
3-23-94	5805.3	"0"	Replace Hobbs meter with new unit reading "0" Install 2 ea 487-709 Cowl fasteners in RH Cowl. Heater hour meter reads 1602.5 Hrs. A&P #1446502
3-31-94	5813.9	Hobbs 8.6	Complied w/ AD 93-24-02 By Magnetic Inspection of Rod End shank + Threads - No Cracks found, Visual inspection of 'Bearing' - OK, forward attach holes - OK, Replaced Bolts w/ PN 402 311 + 402 317. Serviced Hyd reservoir & Brake reservoir w/ 5606. A+P 309708089
		SUB-TOTAL this page	
		TOTAL—Carry forward to next page	

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
4-4-94	5815.8 ~~[illegible]~~	10.5	Installed Magellan GPS S/n 4A000546 and NAT Transfer Relay. also replaced speaker, repaired panel light dimmer and replaced many bulbs See 337 and new weight + balance The aircraft and/or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this agency under work order # 50285 Date 4-4-94 Authorized Signature Eric LaRue FAA CRS #VPTR166L Tanis Aircraft Services, Inc. Municipal Airport Glenwood, MN 56334
4-4-94	5815.8	10.5	Cleaned Exhaust Pressure Sense tube IAW Janitrol + Navajo Serv Manual, Cleaned Janitrol Ign. Plug, checked Combust + Vent fans - Repaired Combust motor wire. Replaced pilot window (2ea) Seals w/ Piper PN 187-528 Seals. Bruce Smith A+P 309708089
4-15-94		16.1 Hrs	Weigh Aircraft EWT 4320.2#, EWCG 124.37" TM 537,318.7 Peter G. Tanis A&P #1446502
30 Apr 94			Elt out for maintenance placarded instrument panel A+P 1443933 Gerald [illegible]
4/29/94		Hobbs 17.8	Installed New Spinner PN: 43940-008 on RH Eng. Installed New Safety (Squat) Switch on LH MLG and adjusted as per Navajo Service Manual Para 7-35. PN: 487 862. Functional check Performed for Safety Switch - Heater fan, Hobbs meter, warning

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
—From Previous Page, Cont—			horn, etc—OK. —— Bruce L Stubb A+P309708089 ——
6 June 94			INStalled Narco ELT 10 and Antenna weight & Balance Supplement made out. ELT. Battery good mar 95. A+P1443933 Gerald Salter
19 July 94		78.0	Removed and Sent Hyd power PAK to Airight For Repair - Adjustment and testing Reinstalled and pulled gear Retraction test Maintenance Release tag and work sheet Attached to this Log- A+P1443933 Gerald Salter
7-23-94		80.1	LH Prop reinstalled after repair - Hub Replaced by Anderson Prop Shop. AP470945116
7-30-94	5887.8	85.5	Comply with AD 88-05-05 MLG drag link Insp by Zyglo Inspection Rev PSB #845A Comply with AD82-27-13 Part II Rev PSB #494B Comply with AD82-27-13 Part III Rev PSB #739 —END— AP470945116
		SUB-TOTAL this page	
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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Airframe Type Piper PA 31-310 N # 7069 D
S/N 31-7812081 Tach 82.5
T. T. 5887.8 Prop T. T. LH 3970 / RH 4?658
For A. D. compliance through A. D. 94-14 see rear of this log.

	P / N	Description	Comment
1ea	6.50x10-8Ply	Flight Custom Tire	R MLG
2ea	AN6235-1A	Filter	Hydralic
4ea	66-66	Brake Pads	LH MLG, outside
1ea	177-01600	Brake Pin	LH MLG
2ea	154-6	Air Filters	Instrument Air
1ea	A427	Strobe flash Tube	RH wing
1ea	MS25309-1524	Nav Light bulb	LH wing

The above parts installed new. Preventative maintenance completed. Inspection per Part 43 App. D. I certify that this aircraft has been inspected in accordance with an Annual inspection as required by Part 91.169 & was determined to be in airworthy condition.

W. O. # ________ Date 2-30-94 Mechanic Peter G. Davis
A&P #1446502 IA

1 Aug 94		82.5	the above Repairs and inspections
			were Authorized By Alexandria
			Aviation Home Base
			A&P 1443933
			Gerald Salther Director of maintenance
10-16-94		135.5	Removed LH main gear door actuator & Installed
			new O-rings & Packings Reinstalled & ops checked
			No leaks, works normal — END ———
			Bruce Tarts AP 470945116
9, Nov		179	
			Replaced Heater Fuel pressure Regulator
			and shut off Valve PN A23 D64-75E
			overhauled By Harold Haskin inc. wo 1W1340
			old one was leaking At diaphragm and

	SUB-TOTAL this page
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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
▨			**TOTAL** brought forward from previous page
			Could not be Adjusted - Adjused installed
			unit to 7.5 psi operation Run Heater and
			Returned to Service. A&P 1443933
12-9-94	5986.7	181.4	Replace LH Navlight bulb #1528. Replace 2ea #335
			bulbs in flap indicator. Adjust engine Controls to
			line up Knobs. Install Rebuilt KG102A ~~King~~
			gyro (see Maint release) A&P#446502

Airframe Type Piper PA31-310 N# 7069D

S/N 31-7812081 Tach Hr Meter 181.4

T.T. 5986.7 Prop T.T. LH 4068.9 RH 5064.7

For A. D. compliance through A. D. 94-21 see rear of this log.

	P/N	Description	Comment
2ea	LM29749	Bearing Cone	MLG wheel outer Brg.
4ea	66-06600	Lining, Brake	LH MLG Inside Pads
2ea	452-412	Rod ends	Nose Gear door
2ea	452-439	Rod ends	Nose Gear door
1ea	452-722	Rod end	LH Aileron Aft P-P Tube
1ea	CCA 1269	Quick drain Seal	LH Inboard drain

The above parts installed new. Preventative maintenance completed. Inspection per Part 43 App. D. I certify that this aircraft has been inspected in accordance with an Annual inspection as required by Part 91.169 & was determined to be in airworthy condition.

W. O. # — Date 12-9-94 Mechanic Peter G. Travis A&P#1446502 IA

KELLEY INSTRUMENTS, INC.
4131 MAY WICHITA, KS 67209-2838
(316) 945-7171 1-800-835-1054

CERTIFICATION TAG
Certified Repair Station No. OP2R065L

Unit Name Directional Gyro Ser. No. 25226

Type 060-0015-00 KG102A Mfg. King

Overhauled By Mark R Wenger Insp. By KR7

Minor Rep./Alt. Work Order No.

By Repairman

If Not Overhauled Fill Out Below

THIS UNIT TESTED AND APPROVED FOR FURTHER SERVICE

By Date

K11-01

SERVICEABLE

SUB

TOT

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
12-9-94	5986.7	181.4	Repaired lights in KMA 20, checked lights in KR86, Cleaned switch contacts in KT76A rechecked data lines to encoder tested mode C The aircraft and/or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this agency under work order # 50378 Date 12-9-94 Authorized Signature Eric LaRue FAA CRS #VPTR166L *Tanis Aircraft Services, Inc.* Municipal Airport Glenwood, MN 56334
1-6-95		202.5	Remove KT76A S/N 27718, Install KT76A S/N 99785 (New) Remove KX175 S/N 7219 NavCom from #1 position. Install KX155 with Glide Slope in #1 position S/N 14706. Install KA-120 DME Channeling adapter KX155 and its Glideslope Connected to existing HSI. The Existing Glide Slope is Connected to the #2 Indicator and is Channeled by the #2 NavCom. See Form 337. The aircraft and/or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this agency under work order # 50381 Date 1-6-95 Authorized Signature Eric LaRue FAA CRS #VPTR166L *Tanis Aircraft Services, Inc.* Municipal Airport Glenwood, MN 56334
10 Jan 95		203	Lubed Left Safty Swith on Left main gear so Heater Blower Fan will operate on ground, installed New Seal in Left Master Brake Cylinder and Seal in Left Brake

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
▨			**TOTAL** brought forward from previous page
			Bled Left Brake - Approved FOR Return to Service - A&P 1443933
			Gerald Sather
1-18-95			Tach reads 212.0 hrs Removed old HSI, installed rebuilt unit KI525A s/n 42447. Return to service
			Eric LaRue
			FAA CRS # VPTR166L

Precision Avionics & Instruments, Inc.
3580 Pierce Drive • Atlanta, Ga. 30341 • Phone: (404) 454-9503
F.A.A. Repair Station #ZV4R714M

Type HSI P/N KI525A
Mfg. KING S/N 42447
Customer TANIS A/C
Address Glenwood MN

☒ Overhaul ☐ Repair ☐ Functional Test ☐ New

The Appliance identified above was overhauled, repaired, functional tested or is new as per block above in accordance with current Federal Aviation Administration Regulations and is approved for return to service. Details of this component are on file at this Repair Station under

W.O. I6236 Date 1-12-95

Signed

FORM NO. 002

SERVICEABLE

8 Feb95			HOBB 239
			INStalled New nose gear tire
			A&P1443933

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
22 Mar 95		277	INstalled New upper Nose gear Housing part # 40273-000 with New O'Rings and Seals, Serviced with Fluid & AIR, pulled Retraction test - Returned to Service A&P 1443933 Gerald Sather
4-26-95		289.3	Repair Airstair door by installing the following New parts 2ea MS24694S65 Screw, 2ea 587-335 Spring 2ea 41413-041 bushing, 2ea 42245-003 washer and 2ea 2073-044 bushing Rerig door to latch properly A&P#1446502
4-26-95		289.3	Comply with AD82-21-13 Pt3 by inspection, Comply with AD88-05-05 by Dye Penetrant Inspection AP470945116

Date 4-26-95 Hr Meter 289.3
ELT Model Narco ELT10 S/N 50683
This ELT has been checked in accordance with FAR 91.207(d) and found to be in compliance. Battery due date is 2-96.
Signature
Certificate # AP470945116

Airframe Type Piper PA31-310 N # 7069D
S/N 31-7812081 Tach Hr Meter 289.3
T. T. 6094.6 Prop T. T. LH 4176.8/RH 5172.6
For A. D. compliance through A. D. 95-05 see rear of this log.

	P / N	Description	Comment
2ea	W23-X1A1G-5	Circuit Breaker	Voltage Regulator
4ea	MS28775-172	O Ring	RH Brake Cyl
1ea	51108-004	Hinge, Rudder	Top
2ea	451-386	Bearing	Rudder Hinge
Replace All rudder Hinge bolts			

The above parts installed new. Preventative maintenance completed. Inspection per Part 43 App. D. I certify that this aircraft has been inspected in accordance with an Annual inspection as required by Part 91.169 & was determined to be in airworthy condition.
W. O. # — Date 4-26-95 Mechanic
A&P#1446502IA

6094.6
100.7
195.3

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	5 Aug 95	370	**TOTAL** brought forward from previous page
			Replaced Left main gear tire & packed wheel Bearings A&P 1443933 Gerald Salter
			Date 17 Aug 95 **Time** 390 **91.171 Altimeter** 8-93 **91.172 Transponder** 8-93 **ELT Battery Due** 9-96 **Aircraft Weight Date** 4-15-94 **Fire Extinguisher** ✓ **Emergency Equip.** ✓ **Fuel Procedures** ✓ **Oxygen Hyd. Test** Seat bottle out **ATCO Manual On Board/Rev. No. & Date of Ops. Specs.** ✓ **Aircraft Maintenance Log** ✓ **Flight Manual** ✓ **Engine, Number 1 TIS or TSMOH** 6541.5 OH **Prop TIS or TSMOH** 810 OH **Engine, Number 2 TIS or TSMOH** 1564.5 **Prop TIS or TSMOH** 354 OH **Name** **Certificate Number** 1443933.
			Date 17 Aug 95 **Tach/Hr. Meter** 390 **Total Time** 6195.3 **Performed routine maintenance and lubrication as per** Piper **service manual. Inspected I.A.W.** Alexandria Aviation**'s part 135 operations specifications manual the ELT, Fire Extinguisher, Floatation Gear and Pyrotechnic signaling device.** **C/W AD** ______ **By** AD List in Back **Next Due At** ______ **C/W AD** ______ **By** on AD Section **Next Due At** ______ **C/W AD** ______ **By** ______ **Next Due At** ______ Oxygen Bottle Removed for Hydro test - placarded panel & supplement Weight & Balance. **I certify that this aircraft has been inspected in accordance with** Annual / 100 Hr **inspection and has been determined to be in airworthy condition. Name** ______ **Certificate Number** 1443933 IA
8-25-95	6206 TT	401 Hobbs	1744.7 Heater hobbs C/w AD 82-07-03 Janitrol Heater decay test per para (a) + (e) + OH Man. p/n 24E25-1 A&P 472708602 IA
		SUB-TOTAL this page	
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DATE	TOTAL TIME IN SERVICE	…ORK PERFORMED— …OF PERSON PERFORMING WORK
8/28/95		after hydrostatic ck ; placards
		…ored Kevin E Sather IA 469807599

ELLIOTT BEECHCRAFT
ALTIMETER SCALE CORRECTION CARD

At Altitude	Alt Reads	At Altitude	Alt Reads
-1,000	-990	14,000	13980
0	0	15,000	
500	500	16,000	15970
1,000	1000	18,000	17960
1,500	1500	20,000	19940
2,000	2000	22,000	21930
3,000	2995	25,000	24900
4,000	4000	30,000	28880
6,000	5995	35,000	34860
8,000	7980	40,000	
10,000	9980	45,000	
12,000	11980	50,000	

DATE 9/20/95 W.O. 471978 ALT S/N 4713
31-7812081
SIGNATURE Kevin …
ELLIOTT FLYING SERVICE CRS KXRO05N

REMARKS: New Exchange

…, Inc
…GHR812C

…onder. Hobbs
…91.413. 444.8
…713 Tested To 35000 Ft
…590. Tested To 35000 Ft
…713 Tested To 35000 Ft
Tested To ________ Ft
…764 S/N 99785
S/N
KX5R005N

Date 10-20-95 Time 490 91.171 Altimeter 9/95 91.172 Transponder
9/95 ELT Battery Due 2-96 Aircraft Weight Date 4-15-94
Fire Extinguisher ✓ Emergency … ✓ Fuel
Procedures ✓ Oxygen … ATCO Manual
On Board/Rev. No. & Date of Ops. Spec. ✓
Aircraft Maintenance Log ✓ Flight Manual ✓ Engine, Number 1
TIS or TSMOH 754 Prop TIS or TSMOH 910 . Engine, Number 2
TIS or TSMOH 1664 Prop TIS or TSMOH 454 Name Kevin E Sather
Certificate Number IA469807599 .

Date 10-20-95 Tach/Hr. Meter 490 Total Time 6295 Performed
routine maintenance and lubrication as per Piper service manual.
Inspected I.A.W. Alex Aviation's part 135 operations
… manual the ELT, Fire Extinguisher, Flotation Gear and Pyrotechnic
… AD List in AD section
By ________ Next Due At ________
________ Next Due At ________
________ Next Due At ________

OPS Checked ELT in accordance with FAR 91.207

… this aircraft has been inspected in accordance with a 100 hrs
Annual inspection and has been determined to be in airworthy
… Kevin E Sather Certificate Number IA469807599

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
8/28/95	Hobbs		Oxygen bottle reinstalled after hydrostatic ck; placards removed & weight & balance updated Kevin E Sather IA469807599

Hobbs 444.8

I certify that the Altimeter, Static System, Transponder, and Altitude Report Test required by FAR 91.411, 91.413, 91.217, and Appendix E and F of Part 43 have been performed.

Static System test date: 9/20/95

Altimeter

L/H Make King Model KEA 126 S/N 4713 Tested To 35000 Ft

R/H Make United Model 5934PA-3 S/N 1K590. Tested To 35000 Ft

Air Data Computer/Encoder

Make King Model KEA126 S/N 4713 Tested To 35000 Ft

Make N/A Model S/N Tested To Ft

Transponder No. 1 Make King Model KT 76A S/N 99785

Transponder No. 2 Make N/A Model S/N

Signed:

For ELLIOTT AVIATION OF MPLS, INC. CRS KX5R005N

Date 10-20-95 Time 490 91.171 Altimeter 9/95 91.172 Transponder 9/95 ELT Battery Due 2-96 Aircraft Weight Date 4-15-94

Fire Extinguisher ✓ Emergency ✓ Tool

Procedures ✓ Oxygen ✓ ATCO Manual

Board/Rev. No. & Date of Ops. Spec. ✓ Engine, Number 1

Aircraft Maintenance Log ✓ Flight Manual ✓

TIS or TSMOH 754 Prop TIS or TSMOH 910 Engine, Number 2

TIS or TSMOH 1664 Prop TIS or TSMOH 454 Name Kevin E Sather

Certificate Number IA469807599.

Date 10-20-95 Tach/Hr. Meter 490 Total Time 6295 Performed routine maintenance and lubrication as per Piper service manual. Inspected I.A.W. Alex Aviation's part 135 operations manual the ELT, Fire Extinguisher, Flotation Gear and Pyrotechnic

AD List in AD section Next Due At

Next Due At

Next Due At

OPS Checked ELT in accordance with FAR 91.207

This aircraft has been inspected in accordance with a 100 hrs Annual inspection and has been determined to be in airworthy condition.

Kevin E Sather Certificate Number IA469807599

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MIDWEST AIRCRAFT INSTRUMENTS, INC.
4215 W. 220th Street
Jordan, MN 55352 (612) 492-6088
FAA certified repair station K05R995M

Unit Name 3 in 1 Serial Number 5107
Type IU 378-003-4 MFG Edo Aire
Overhauled by ___ Inspected by ___
Date overhauled ___ Date Inspected ___

OR

If not overhauled
THIS UNIT REPAIRED/~~TESTED~~ and APPROVED FOR FURTHER SERVICE
REPAIRED BY ___ Date 2/16/96
TESTED BY ___ Date ___
THIS TAG MUST ACCOMPANY INSTRUMENT TO HONOR WARRANTY

1844. heater hobbs

c/w AD 82-07-03 Janitrol Heater decay test per para (a) + (e) + OH Mangeal p/n 24E25-1

Matthew Larson AP477212602 IA

Date Jan 10, 1996 Time 589 91.171 Altimeter 9-95 91.172 Transponder 9-4-94
9/95 ELT Battery Due Jan 96 Aircraft Weight Date ✓ Fuel
Fire Extinguisher Dec 1995 - Checked Emergency Equip. ✓ ATCO Manual
Procedures ✓ Oxygen Hyd Test 8/95
On Board/Rev. No. & Date of Ops Specs ✓ Engine, Number 1
Aircraft Maintenance Log ✓ Flight Manual ✓ Engine, Number 2
TIS or TSMOH 853 Prop TIS or TSMOH 9/1009
TIS or TSMOH 1763 Prop TIS or TSMOH 553 Name Kevin E Sather
Certificate Number IA 469807599.

Date Jan 10, 1996 Tach/Hr. Meter 589 Total Time 6394 **Performed routine maintenance and lubrication as per** Piper **service manual.** Inspected I.A.W. Alex Aviation's part 135 operations specifications manual the ELT, Fire Extinguisher, Flotation gear and Pyrotechnic signaling device.

C/W AD AD List By AD Section Next Due At ___
C/W AD ___ By ___ Next Due At ___
C/W AD ___ By ___ Next Due At ___

c/w ELT ck'd IAW FAR 91.207
Battery good Jan 1998

I certify that this aircraft has been inspected in accordance with a 100hr inspection and has been determined to be in airworthy condition. Name Kevin E Sather Certificate Number IA 469807599

Clock Removed For Maintenance - M.L

VER - HFP 1443933 Kevin Sather

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
20 Dec 95			INStalled New General Halon 1211 Fire extinguisher No U-437705 weight 4Lbs 14oz Approved FOR Return to Service A&P 1443933 Gerald Sather
1-2-96		1844.	heater hobbs c/w AD 82-07-03 Janitrol Heater decay test per Para (a)+(e) + OH Manual p/n 24E25-1 A&P 472728602 IA
			Date Jan 10, 1996 Time 589 91.171 Altimeter 9-95 91.172 Transponder ~~8~~4-94 Aircraft Weight Date ✓ Fuel 9/95 ELT [illegible] Dec 1995 → CKd Jan 96 Emergency Equip. ATCO Manual Fire Extinguisher ✓ Oxygen Hyd Test 8/95 No. & Date of Ops Specs ✓ Flight Manual ✓ Engine Number 1 9/1009 Engine Number 2 TIS or [illegible] 853 [illegible] 553 Name Kevin E Sather TIS or [illegible] 1763 Prop TIS or [illegible] Certificate Number IA 469807599.
			Date Jan 10, 1996 Tach/Hr. Meter 589 Total Time 6394 Performed routine maintenance and lubrication as per Piper service manual. Inspected I.A.W. Alex Aviation 's part 135 operations specifications manual the ELT, Fire Extinguisher ~~Flotation~~ gear and Pyrotechnic signaling device. C/W AD AD List By n Ad Section Next Due At C/W AD By Next Due At C/W AD By Next Due At c/w ELT ck'd IAW FAR 91.207 Battery good Jan 1998 I certify that this aircraft has been inspected in accordance with a 100hr inspection and was determined to be in airworthy condition. Name Kevin E Sather Certificate Number IA 469807599
1 Feb 96			Clock Removed For Maintenance - M.L VFR - A&P 1443933 Gerald Sather

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Page No. ______

DATE 1996	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
5 Feb			Reinstalled Both clocks after overhaul By Midwest A/C Instrument. Maintance Releases Attached — Replaced oil temp, pressure & Cyl temp gage # 5107 A&P 1443933 Gerald Salter
11 April		673 673	Replaced Left prop spinner Rear Bulkhead with New Approved FOR Return to service A&P 1443933 Gerald Salter
29 April 96		683	Installed new spinner A&P 1443933 Gerald Salter
5/2/96		1944 Heater Hobbs	C/W AD 82-07-02 Janitrol Heater Decay test per fig (A+E) & OH Manual PN 24E25-1 A&P 471924772

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
8 may 96	6494	689	
			~~Date ______ Time ______ 91.171 Altimeter ______ 91.172 Transponder ______ ELT Battery Due ______ Aircraft Weight Date ______ Fire Extinguisher ______ Emergency Equip. ______ Fuel Procedures ______ Oxygen Hyd. Test ______ ATCO Manual On Board/Rev. No. & Date of Ops. Specs. ______ Aircraft Maintenance Log ______ Flight Manual ______ Engine, Number 1 TIS or TSMOH ______ Prop TIS or TSMOH ______ Engine, Number 2 TIS or TSMOH ______ Prop TIS or TSMOH ______ Name ______ Certificate Number ______.~~
			Date 8 may 96 Time 689 91.171 Altimeter Done 9-95 91.172 Transponder 9-95 ELT Battery Due Jan 98 Aircraft Weight Date 4-94 Fire Extinguisher Checked may 96 Emergency Equip. ✓ Fuel Procedures ✓ Oxygen Hyd. Test 8-95 ATCO Manual On Board/Rev. No. & Date of Ops. Specs. ✓ Aircraft Maintenance Log ✓ Flight Manual ✓ L.H. Engine, Number 1 TIS or TSMOH 953 Prop TIS or TSMOH 1109 R.H. Engine, Number 2 TIS or TSMOH 35 Prop TIS or TSMOH 653 Name Gerald Certificate Number 1443933.
8 may 96	6494	689	Date 8 may 96 Tach/Hr. Meter 689 Total Time 6494 Performed routine maintenance and lubrication as per Piper service manual. Inspected I.A.W. ______'s part 135 operations specifications manual the ELT, Fire Extinguisher, Floatation Gear and Pyrotechnic signaling device. C/W AD ______ By AD on AD section of this Booklet. Next Due At ______ C/W AD ______ By ______ Next Due At ______ C/W AD ______ By ______ Next Due At ______ Ops checked ELT per FAR 91.207, Installed New floor Carpet from Airtex Fire Retardant Material I certify that this aircraft has been inspected in accordance with Annual/100hr inspection, and has been determined to be in airworthy condition. Name Gerald Certificate Number 1443933IA
5-31-96		691	Replaced Interior side panels and head liner as per work order 1076 2780350

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
1996 June 24			Replaced Left 3 in one gage Oil PSI Oil temp Cyl temp 1U378-003-4 S/N 26332 overhauled By Sigma tech WO 42619- Run-up Checked Satisfactory A&P 1443933 Gerald Salter
6 July		767	Installed Rear Bulkhead on Left engine prop spinner part # 100602-004 Run-up & Approved for Return to Service A&P 1443933 Gerald Salter

Date Aug 6, 1996 Time 796 91.171 Altimeter 9-95 91.172 Transponder 9-95 ELT Battery Due Jan 98 Aircraft Weight Date 4-94

Fuel ✓ Fire Extinguisher Chk'd Emergency Equip. ✓

ATCO Manual Procedures ✓ Oxygen Hyd. Test 8-95

On Board/Rev. No. & Date of Ops. Specs. ✓

Aircraft Maintenance Log ✓ Flight Manual ✓

Engine, Number 1 TIS or TSMOH ~~FF3~~ 1060 Prop TIS or TSMOH 1266

Engine, Number 2 TIS or TSMOH 143 Prop TIS or TSMOH 260 Name Kevin E Salter

Certificate Number IA469807599

Date Aug 6, 1996 Tach/Hr. Meter 796 Total Time 6601 Performed routine maintenance and lubrication as per Piper service manual. Inspected I.A.W. Alex Aviation 's part 135 operations specifications manual the ELT, Fire Extinguisher, Floatation Gear and Pyrotechnic signaling device. AD's listed in AD section of AD log

C/W AD ______ By ______ Next Due At ______

C/W AD ______ By ______ Next Due At ______

C/W AD ______ By ______ Next Due At ______

Ck'd ELT IAW FAR 91.207

I certify that this aircraft has been inspected in accordance with ~~[illegible]~~ AAIP inspection and has been determined to be in airworthy condition. Name Kevin E Salter Certificate Number IA469807599

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			~~Date Time 91.171 Altimeter 91.172 Transponder~~
			~~ELT Battery Due Aircraft Weight Date~~
			~~Fire Extinguisher Fuel~~
			~~Procedures ATCO Manual~~
			~~On Board/Rev. No. & Date~~
			~~Aircraft Maintenance Log~~
			~~TIS or TSMOH~~
			~~TIS or TSMOH Prop TIS or TSMOH~~
			~~Certificate Number~~
Nov 17-96	6691		Date NOV 12-96 Time 886 91.171 Altim
			9-95 ELT Battery Due Jan 9
			Fire Extinguisher ✓ Emer
			Procedures ✓ Oxygen Hyd.
			On Board/Rev. No. & Date of Ops. Spec
			Aircr & Maintenance Log ✓ Flight
			TIS or TSMOH 1150 Prop TIS or TS
			TIS or TSMOH 233 Prop TIS or TSM
			Certificate Number 1443937
Nov 17-96	6691		Date NOV 12-96 Tach/Hr. Meter 88
			routine maintenance and lubrication as p
			Inspected I.A.W. Alexandria Avi
			specifications manual the ELT, Fire Extingu
			signaling device.
			C/W AD ______ By AD List
			C/W AD ______ By Header
			C/W AD ______ By ______
			OPS Checked ELT FAR 91-
			I certify that this aircraft has been inspe
			inspection and has
			condition. Name Gerald Salt
26 NOV			Hobb. 901 t.
			Replaced Nose g
			40273-00 with Repaired unit From
			S&B Industries R.S. CRS QE5R142N
			under work order 4045 - Release tag
			dated Nov 25-96 - pulled Retraction test -

SUB-TOTAL this page Approved For Return to Service

A&P 1443937

Gerald Salt

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REPAIR TAG NO. 4779

Component Name Nose Gear Trunnion

Model PA 31

Serial or N No. 96330

Mfgr/PN: 40273-00

The aircraft component identified above was repaired and inspected 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.

Work Order No. 4045

Date November 25, 1996

Signed Bruce W. Toft for

S & B Industries, Inc.

333 West 6160 South
Murray, Utah 84107
Phone (801) 261-4076
Fax (801) 261-4149
FAA CRS QE5R142N

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			~~Date Time 91.171 Altimeter 91.172 Transponder~~ ~~ELT Battery Aircraft Weight Date~~ ~~Fire Extinguisher Fuel~~ ~~Procedures ATCO Manual~~ ~~On Board/Rev. No. & Date~~ ~~Aircraft Maintenance Log~~ ~~TIS or TSMOH~~ ~~TIS or TSMOH Prop TIS or TSMOH Name~~ ~~Certificate Number~~
Nov 12-96	6691		Date Nov 12-96 Time 886 91.171 Altimeter Done 9-95 ~~172 Transponder~~ 9-95 ELT Battery Due Jan 98 Aircraft Weight Date 4-94 Fire Extinguisher ✓ Emergency ✓ Fuel Procedures ✓ Oxygen Hyd. T. 8-95 ATCO Manual On Board/Rev. No. & Date of Ops. Specs ✓ Aircraft Maintenance Log ✓ Flight Manual ✓ Engine, Number 1 TIS or TSMOH 1150 Prop TIS or TSMOH 1306 Engine, Number 2 TIS or TSMOH 233 Prop TIS or TSMOH 850 Name Gerald [illegible] Certificate Number 1443933
Nov 12-96	6691		Date Nov 12-96 Tach/Hr. Meter 886 Total Time 6691 Performed routine maintenance and lubrication as per Piper service manual. Inspected I.A.W. Alexandra Aviation's part 135 operations specifications manual the ELT, Fire Extinguisher, Floatation Gear and Pyrotechnic signaling device. C/W AD ______ By AD list in AD Section C/W AD ______ By ~~Heater [illegible] tested 1994 Heater Hobbs~~ C/W AD ______ By ______ OPS Checked ELT FAR 91-207 I certify that this aircraft has been inspected in accordance with 100 Hr inspection and has been determined to be in airworthy condition. Name Gerald [illegible] 1443933
26 NOV			Hobb. 901 T.T. 6706 HR. Replaced Nose gear trunnion part # 40273-00 with Repaired unit from S&B Industries R.S. CRS OESR142H under work order 4045- Release tag dated Nov 25-96 - pulled Retraction test- Approved for Return to Service Arp 1443933 Gerald [illegible]

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
2-21-97	0960 A/c hobbs	2092	heater hobbs c/w AD 96-20-07 para (a) by performing Janitrol heater decay test per Manual 24E25-1 c/w para (a) (2) by installing a new C/A switch p/n 94E42-3 on heater. Para (a) (2) no longer applies (Ram air switch p/n 757-577 does not apply to the AD per conversation with John Moore at JanAero) A&P472708602IA
March 97		1004	Installed New R.H. Main tire, Installed New Brushes in Left Prop Block, Ops Checked ELT For 91-907 Battery good until Jan 98. Replaced Rt Brake Lining & filled Brakes Reservoir - Replaced Instrument panel Bulbs as Needed, Serviced & Checked Gear Operation, Lubed Landing gear. Serviced Hyd Reservoir, Lubed & Checked Flight controls Complied with AD 96-21-03 by Installing Hinge Brackets 74461-02 and 74461-03, Run-up and Approved For Return to Service Date March 97 Total Aircraft Time 6809 I certify this Aircraft has been inspected in accordance with a 100 Hr/Annual inspection and was determined to be in airworthy condition. Signature ______ A&P No. 1443933IA
			SUB-TOTAL this page
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273
6941
~~7164~~

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
18 Apr		1048	Replaced prop Deice Brushes on R.H. Side – checked operational OK. A&P 1443933 Gerald Salter
5 June 97		1084	Replaced left Brake wheel cylinder with New – Bled Brakes. Complied with 100 Hr AD's See AD sheet. A&P 1443933 Gerald Salter
3 Jun 97		1136	T.T. Aircraft time 6941 Nose wheel AD due at tach time 1168 – part on order – other AD's due at 1184 See AD status sheet – ops checked ELT Jan 97. 207 Battery good until Jan 98. Drained all fuel sumps – Run-up + Approved for Return to Service A&P 1443933 Gerald Salter – I certify that this Aircraft Has Been inspected in accordance with 100 Hr Inspection. Gerald Salter 1443933
July 9, 1997	Hobbs 1144		Replaced nosewheel with Cleveland 10-140 I/A/W AD 97-7-3. Replaced nose tire. Approved for return to service. Kevin I. Salter IA462987598
11/24/97	1276 hobbs 2185 heaterhobbs		c/w AD 96-20-07 Janitrol per para (a) decay test OK Replaced Fuel psi regulator p/n A23D04-7.5. Replaced Comb. air motor & housing assy. s/n C4M-1359. Runup ck OK Larsen A&P 472270860 IA

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18000
20000
22000
25000
30000
35000
Hysteresis: Check point (50%
+-30ft
effect error
FAR 18K
Static

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
1-19-98	—		Recording Tach 1341.1 ENCODER Altimeter & Static CHECK I certify that the altimeter, static system, PILOT (LEFT) Side transponder, and altitude reporter tests altimeter required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6A. TESTED TO 27,000 FEET Altimeter Model UNITED S/N 4713 ENCODING ATIMETER Transponder Model KT76A S/N 99785 Reporter Model UNITED S/N 4713 TANIS AIRCRAFT SERVICES, INC. MUNICIPAL AIRPORT GLENWOOD, MN 56334 Signature Roland D Noordmans CRS# VPTR166L W.O.# 50672
1-19-98			Recording Tach. 1341.1 ALTIMETER/STATIC CHECK I certify that the altimeter, static system, RIGHT SIDE ~~transponder, and altitude reporter tests~~ altimeter required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6A. TESTED TO 27,000 FEET Altimeter Model UNITED S/N 1K590 ~~Transponder Model S/N~~ ~~Reporter Model S/N~~ TANIS AIRCRAFT SERVICES, INC. MUNICIPAL AIRPORT GLENWOOD, MN 56334 Signature Roland Noordmans CRS# VPTR166L W.O.# 50672
94 Jan 98			tach time 1359 changed Elt Battery Dec 99 – ops checked Elt per FAR 91-207. Serviced Brake Reservoir Repaired Small Hole in Bottom of Fuselage checked lights + switches – A+P 1443933 Date Jan 28, 1998 Total Aircraft Time 7164 I certify this Aircraft has been inspected in accordance with a n Annual inspection and was determined to be in airworthy condition. Signature Kevin E A&P No. 468807599 IA
			SUB-TOTAL this page
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ATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		TOTAL brought forward from previous page	
1-19-98			Recording Tach 1341.1 ENCODER Altimeter & Static CHECK I certify that the altimeter, static system, transponder, and altitude reporter tests required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6A. PILOT (LEFT) Side altimeter TESTED TO 27,000 FEET Altimeter Model UNITED S/N 4713 ENCODING ATIMETER Transponder Model KT76A S/N 99785 Reporter Model UNITED S/N 4713 TANIS AIRCRAFT SERVICES, INC. MUNICIPAL AIRPORT GLENWOOD, MN 56334 Signature Roland D Noordmans CRS# VPTR166L W.O.# 50672
1-19-98			Recording Tach. 1341.1 ALTIMETER/STATIC CHECK I certify that the altimeter, static system, ~~transponder, and altitude reporter tests~~ required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6A. RIGHT SIDE altimeter TESTED TO 27,000 FEET Altimeter Model UNITED S/N 1K590 ~~Transponder Model S/N~~ ~~Reporter Model S/N~~ TANIS AIRCRAFT SERVICES, INC. MUNICIPAL AIRPORT GLENWOOD, MN 56334 Signature Roland Noordmans CRS# VPTR166L W.O.# 50672
96 Jan 98			tach time 1359 Changed ELT Battery Dec 99 – ops checked ELT per FAR 91-207. Serviced Brake Reservoir Repaired Small Hole in Bottom of fuselage Checked lights + switches A&P 1443933 Date Jan 28, 1998 Total Aircraft Time 2164 I certify this aircraft has been inspected in accordance with a n Annual inspection and was determined to be in airworthy condition. Signature Kevin E A&P No. 468807599 IA
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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
Feb 5, 1998		Hobbs 1365	Heater Hobbs 2266 Replaced Janitrol heater with rebuilt unit from Harold Haskins; new heater has ceramic switch + combustion tube; AD 96-20-7 no longer applies; Form 337 filed with FAA + copy installed in logbook; new heater Part # FR039059EL Op's ck - ok Kevin E Sather A+P 469807598
Feb 12, 1998		Hobbs 1378	Replaced landing gear squat switch; Adjusted heater thermostat; reset power outlet circuit breaker; Kevin E Sather A+P 469807599
Feb 24, 1998		Hobbs 1385	Replaced rt + left gear forward side brace to comply with AD. 96-10-14; Replaced rt main tire; replaced one rt wheel bearing + race; added hyd. fluid to power pak reservoir; CK'd gear retraction - ok; Kevin E Sather IA 469807599
28 July		HoBBs 1493	Replaced Nav tail Bulb, Replaced missing screw left wing tip, tightened up loose governor pad, Serviced Hyd Reservoir. Replaced Fuel strainer Seal Right gasolator, Approved For Return to Service A+P 1443933 Gerald Sather Date July 28, 1998 Total Aircraft Time 1493 I certify this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition. Signature Kevin E Sather A&P No IA469807599
10/8/98		Hobbs 1569	Replaced N/G actuating cyl. seals; refilled reservoir; ck'd gear retraction ok; Kevin E Sather IA469807598

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			TOTAL brought forward from previous page
12/04/98		Hobbs 1585	C/w AD's 82-27-13 R2 a(2) + a(3) by insp both parts ckd ok; Replaced left main tire; cleaned + ~~packed~~ greased left wheel bearings; Replaced left brake linings; Replaced landing lite; Approved for return to service; Kevin E Dalton IA469807599
2/4/99		HOBBS 1648	— Replaced O-RINGS IN PILOTS & Copilots Rt Brake Master Cyl's. Bled System - ck'd ok. Kevin E Dalton IA469807599
ANNUAL		HOBBS 1678 TT 7483	4 MAR 99 — ADDED WATER TO BATT. ELT BATT EXPIRES DEC 99 - Ck'd ok per F.A.R 91.207(d) Ck'd Lights & Switches; Lubed Control Hinges. Aired Tires; ck'd Brakes & Reservoir ok; ck'd prop Boots ok; ck'd wings TAIL & Fuselage; ck'd Cables & pulleys. Checked prop Hub press - Rt ok - Serviced LT WITH Nitrogen. C/W A.D. 98-09-25 (Spar plate) by INSTALLING KIT # 766-640; Replaced Fuel Capacity placards. TIGHTENED N/G SCISSOR BOLT. Cleaned STRUTS. Repaired RT WING Root L.E. Fairing; Replaced Loose Rivets ON LOWER SKIN AFT OF LT ENGINE. Freed up LT ENG FUEL FIREWALL SHUTOFF VALVE; Replaced O-RINGS IN Rt GEAR door Actuating Cylinder. ADDED FLUID TO Hyd Reservoir; Greased Gear; ck'd Lockdown; Completed Gear Retraction; Checked A.D. NOTES

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AND LISTED IN "ACFT INSP STATUS" OF ACFT
Records: ACFT TEST RUN & APPROVED FOR RETURN
TO SERVICE.

Date March 4, 1999 Total Aircraft Time 7483 I certify this
aircraft has been inspected in accordance with an Annual
inspection and was determined to be in airworthy condition.
Signature Kevin E. Jette A&P No. IA461801599

July 28, 1998 Hobb 1722.8 c/w AD 82-27-13 flap system para a(3) ck'd ok;
next due at 1878 Hobbs Kevin E. Jette A+P461801599IA
replaced rt main tire;

ANNUAL HOBBS 1809 TT 7614
23 Sept 99- ADDED WATER TO BATT; E.L.T. BATT
Expires Dec 99; Ck'd ok per F.A.R. 91.207(d); LUBED
Control Hinges; CHECKED LIGHTS & SWITCHES; DRAINED
Fuel Sumps; CHECKED BRAKE LINERS OK - FILLED BRAKE
Reservoir; AIRED TIRES; CHECKED WINGS, TAIL & FUSELAGE;
CHECKED CABLES & PULLYS; GREASED GEAR; ADDED FLUID
TO HYD RESERVOIR; CK'D SCISSORS; CK'D LOCKDOWN;
SECURED STALL WARNING STRIP ON RT WING; O2 BOTTLE
OUT OF 24 yr LIFE LIMIT - OWNER Advised - Placarded
PANEL; Replaced TWO RIVETS ON LT O.B. GEAR door;
Replaced Brake DISCS ON BOTH WHEELS; Cleaned, Primed
AND PAINTED SLIGHT CORROSION ON RT O.B. GEAR door;
SERVICED LT GEAR WITH FLUID AND NITROGEN; Replaced
BOTH ELEV TIP Boots; Repaired ICE THROW DAMAGE
ON LT Side of NOSE; HydroSTATIC TESTED FIRE EXT;
Replaced Couple of Rivets ON Rt ENG OIL ACCESS DOOR

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page

REPAIRED CHIPPED FIBERGLASS ON HORZ STAB TIPS; CHECKED A.D. NOTES AND LISTED IN "ACFT INSP STATUS" OF THIS FOLDER; ACFT TEST RUN & APPROVED FOR RETURN TO SERVICE

Date Sept 23, 1999 Total Aircraft Time 7614 I certify this aircraft has been inspected in accordance with a(n) Annual inspection and was determined to be in airworthy condition.
Signature Kevin E A&P No. 469307599IA

10-15-99 Airplane Time 1810.2 Hobbs
Hartzell HC-E3YR-2AT/C8468-6R Propeller
DJ-9860A (left)

Overhauled propeller. See prop log for details.

Work Order No. 103679.
10-15-99.

Conrad E. [illegible] p1911586

Date 10-15-99 Airplane Time 1810.2 Hobbs
~~HC-E3YR-2ATF/FC8468-6R Propeller~~
DJ-10389A (right), which was [illegible]
[illegible] of the repair is on file at
[illegible] Work Order No. 103680.
Dated 10-15-99.

Overhauled propeller. See prop log for details.

Conrad E. [illegible] p1911586

11-24-99 HOBBS 1810.2 HRS. INSTALLED NEW EXHAUST STACK FOR #2,4,6 CYLINDERS ON RIGHT ENGN. SEE TAG.

MAINTENANCE RELEASE
The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under Work Order 13845.
Date 11-24-99 Signed ______ for QB2R103L
Crystal Shamrock, Inc. 6000 Douglas Drive No., Mpls., MN 55429

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DATE

TOTA TIM IN SERV

12-31-9

2000

1 FEB

1

1. UNITED STATES

FAA FORM 8130-3
AIRWORTHINESS APPROVAL TAG
U.S. Department Of Transportation
Federal Aviation Administration

3. System Tracking Ref. No. WO# 3370

4. Organization Quality Aircraft Accessories, Inc.
5746 E. Apache, Bldg. A
Tulsa, OK 74115
Phone 1-877-833-6948
918-835-6948
Fax 918-835-2804

5. Work Order, Contract, or Invoice Number INV# 1952

6. Item	7. Description	8. Part/Number	9. Eligibility*	10. Qty	11. Serial/Batch Number	12. Status/Work
1	Eastern Hydraulic Pump	1213HBG-310	See Remarks	1	0D8-3252	Overhaul

13. Remarks

FAA Spec./Type Certificate No.

See Attached Work Order Summary for details.

mech-MJH

Limited life parts must be accompanied by maintenance history including total time/total cycles since new.

14. New ☐
Newly Overhauled ☐
Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13, was (were) manufactured in accordance with FAA approved design data and airworthiness.
NOTE. In case of parts to be exported, the special requirements of the importing country have been met.

15. Signature

16. FAA Authorization No.:

17. Name (*Typed or Printed*):

18. Date:

19. Return to Service in Accordance with FAR 43.9
Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.

20. Authorized Signature Susan Demshar

21. License Number: QYIR334Y

22. Name (Typed or Printed) Susan Demshar

23. Date 1-28-00

FAA Form 8130-3 (03-99)

*(Optional) Installer must cross check eligibility with applicable technical data.

Aircraft accessories S/N 0D8-3352 3370
Right pump overhauled By Approved Aircraft
accessories S/N. 1268 1596 WO A53-092
Run-up & operated gear doors Approved For
Return to Service - checked for leaks
& Service Reservoir - A&P 1493933

1-13-00 1841.2 HOBBS. REPLACED ONE BRUSH ON LEFT SIDE FOR PROP HEAT.
REMOVED AND REPLACED RIGHT SIDE EXHAUST RISER BY TURBO AFTER
OUTSIDE REPAIR BY AEROSPACE WELDING. REPAIRED ENGINE BAFFLE.

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under Work Order 13514.

Date 1-13-00 Signed for QB2R103L
Crystal Shamrock, Inc. 6000 Douglas Drive No., Mpls., MN 55429

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TOTAL—Carry forward to next

Page No. ______

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
12-31-99	Hobbs 1838		Replaced oxygen bottle with new unit; next hydrostatic test 12/04; IA469801599
2000 1 FEB	1859		Replaced Both Engine driven Hyd pumps Left overhauled By Quality Aircraft accessories S/N OD8-3352 WO 3370 Right pump overhauled By Approved Aircraft accessories S/N. 1268 1596 WO A53-092 Run-up & operated gear doors Approved for Return to Service - checked for leaks & Service Reservoir - A&P 1493933
1-13-00	1841.2	HOBBS.	REPLACED ONE BRUSH ON LEFT SIDE FOR PROP HEAT. REMOVED AND REPLACED RIGHT SIDE EXHAUST RISER BY TURBO AFTER OUTSIDE REPAIR BY AEROSPACE WELDING. REPLACED ENGINE BAFFLE.

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under Work Order 13514

Date 1-13-00 Signed ______ for QB2R103L
Crystal Shamrock, Inc. 6000 Douglas Drive No., Mpls., MN 55429

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Page No. ______

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
6-15-00	Hobbs = 1918.8		

I certify that the Altimeter, Static System, Transponder, and Altitude Report Test required by FAR 91.411, 91.413, 91.217, and Appendix E and F of Part 43 have been performed. W.O. #473827

Static System test date: 6-15-2000

Altimeter
L/H Make KING Model KEA126 S/N 4713 Tested To 30,000 Ft
R/H Make UNITED Model 5934PA-3 S/N IK590 Tested To 30,000 Ft
Air Data Computer/[✓ Encoder]
Make KING Model KEA126 S/N 4713 Tested To 30,000 Ft
Make — Model — S/N — Tested To — Ft
Transponder No. 1 Make KING Model KT-76A S/N 19785
Transponder No. 2 Make — Model — S/N —
Signed:
For ELLIOTT AVIATION OF MPLS, INC. CRS KX5R005N

Nov 3, 2000 Hobbs 1970 TT 7775 Annual Inspection

CK'd aircraft battery -ok; Replaced ELT battery -good til Dec 2002; Ops CK'd ELT per FAR 91.207(d) -ok; CK'd Lights + switches -ok; Lubed control hinges; Drained fuel sumps; filled brake reservoir; CK'd brakes ~~ok~~; Bled rt brake; CK'd prop deice boots -ok; ck'd prop hub pressure; CK'd surface deice boots -ok; Aired tires; filled hydraulic reservoir; Greased gear; CK'd gear doors -ok; CK'd gear lock downs -ok; ck'd wings; ck'd tail; ck'd fuselage; ck'd cables + pulleys; AD's listed in Aircraft status part of AD log; Replaced rt nav lite bulb; Replaced taxi light bulb; adjust left idle mixture; c/w AD 82-27-13, 98-06-01, 99-12-5 by inspection; CK'd gear retraction -ok; Test run - ck'd for leaks;

Date Nov 3, 2000 Total Aircraft Time 7775 I certify this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Signature Kevin [illegible] A&P No. 469807599IA

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Page No. ______

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
11-29-00	1980.5	A/C Hobbs	Weighed A/C this date per Piper PA-31 maintenance manual. Computed new EW, EWCG, and Useful load. A&P 471847350
1-12-01	1989.4	Hobbs	Removed KN-74 R-NAV, KN-65A DME system, KR-85 ADF system, KA 120 and RS-08 Relay. Installed KLN-89B GPS with MD41-524 Relay annunciator. Installed KI-209 Nav ind for No. 2 system. **MAINTENANCE RELEASE** The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this Repair Station under work order 18850, Date 1-12-01, Signature J P Fairchild, Type of Certificate/Number R+I/2429051 for CRS BDKR393C, STC Aviation, Inc., St. Cloud, MN 56302. I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6a. TESTED TO 30 Kft. Altimeter Model 5035P-1 #1 S/N 4713 #2 S/N 1K590 Transponder Model KT-76A #1 S/N 99785 #2 S/N — Altitude Reporter 5035P-1 #1 S/N 4713 #2 S/N — Signed J P Fairchild Date 1-12-01 STC Aviation Inc., St. Cloud, MN 56304 CRS BDKR393C
Jan 22, 2001	Hobbs 2000		C/w AD 99-14-01 by installing copy of AD in Aircraft Flight manual (AFM); AD [illegible] by copy of AD 98-04-27 in AFM Kevin Eaton A+P 468807598 IA

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Page No. ________

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
1-15-01	1999.0	Hobbs	Flight tested KLN 89B 360° steep turns R&L, visually checked Alignment w/ ground all checked out o.k. Pilot G.L. Hustad 476-62-7119
May 4, 2001		Hobbs 2007	Replaced left fuel line - crossover valve to gasculator; Pressure ck'd ok A+P 469807599

MAKE **PIPER**
MODEL **PA 31-310**
S/N **31-7812081**
REG NO **N7069D**

DATE **5/4/01**
WO# **MSP 4635**
A/C TT
LDGS

GENERAL DYNAMICS
Aviation Services

Installed repaired radar system. Bendix indicator model IN152A p/n 4000946-5201 s/n 5269 and Bendix ART p/n 4001018-6106 s/n 3710. System ramp checks good IAW the Bendix RDR 160 maintenance manual.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at repair station Signature Flight Support, Minneapolis, MN FAA Certified Repair Station # PJYR360K Signed ________

HOBBS Time: 2135.6 **Aircraft Total Time: 7940.6** **Date 03/01/2002**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Installed Service Kit 760 465 onto elevators per Piper instructions
2. Rebuilt main and nose gear oleo struts
3. Replaced all brake linings
4. Performed gear retraction/extention and emergency gear extention in accordance with Piper maintenance manual. Replaced hydraulic filters and serviced system.
5. Replaced taxi light
6. Replaced alternator belt on LH engine.
7. All other airframe and accessory AD's complied with, see separate compliance record.
8. Replaced ELT Battery and tested ELT in accordance with 91.207. New Battery Due DEC 2004
9. I certify that this aircraft was inspected in accordance with a 100-hour inspection per FAR 43 and the manufacturers maintenance manual and is found to be in airworthy condition at this time.

Denis Gregory Lison / AP16623819 Denis G. Lison

HOBBS Time: 2135.6 **Aircraft Total Time: 7940.6** **Date 03/01/2002**

I certify that this aircraft has been inspected in accordance with an annual inspection and is determined to be in airworthy condition at this time.

Michael J. Farrey / AP155133719A M J Farrey

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Page No. ______

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

HOBBS Time: 2230.3 **Date 10/01/2002**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Performed gear retraction/extension and emergency gear extention in accordance with Piper maintenance manual. Replaced hydraulic filters and serviced system.
2. Installed new RH main tire.
3. C/W AD 82-27-13 R2, 99-06-01, AD 98-18-12, and AD 2001-17-13 by visual inspection as per the body of each AD.
4. All other airframe and accessory AD's complied with, see separate compliance record.
5. Performed all annual and 100 hour airframe service items as per the manufactures maintenance manual.
6. Replaced ELT Battery and tested ELT in accordance with 91.207. New Battery Due DEC 2004

I certify that this aircraft was inspected in accordance with a 100 Hour inspection per FAR 43 appendix E and is found to be in airworthy condition at this time.

Denis Gregory Lison / AP 2686552

DATE 10-2-02
WO# 0CA002
TACH
T/T
TSMOH

MODEL PA-31-310
S/N 310-7812081
REG N7069D
HOBBS 2230.6

WIGGINS
AIRWAYS
1 Garside Way
Manchester, NH 03108-4920
603-629-9191 Fax 603-668-3753
Repair Station #HI1R193K

Form WA-58 Rev. 10-20-99 page 1of 1

Log Book Attachment:

I certify that the # 2 Altimeter has been inspected and C/W FAR 43 App E to 20,000 FT P/N 5934PA-1 SN 1N590

HI1R193K

DATE 10-2-02
WO# 0CA002
TACH
T/T
TSMOH

MODEL PA-31-310 Piper NAVAJO
S/N 310-7812081
REG N7069D
HOBBS 2230.6

WIGGINS
AIRWAYS
1 Garside Way
Manchester, NH 03108-4920
603-629-9191 Fax 603-668-3753
Repair Station #HI1R193K

Form WA-58 Rev. 10-20-99 page 1of 1

Log Book Attachment:

I certify that the # 1 static system and altimeter, p/n 5035P-P19 s/n 4713 has been inspected and complies with FAR 43 App E to 20,000 ft.

I certify that the # 1 transponder p/n KT76A 066-1062-00 s/n 99785 has been inspected and complies with FAR 43 App F.

I certify that I have performed a data correspondence check on the # 1 system to 20,000 ft and complies with FAR 43 App E(c).

HI1R193K

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HOBBS Time: 2257.4 **Aircraft Total Time: 8062.4** **Date 02/10/2003**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Installed Service Kit 767-349 onto rudder per Piper Service Bulletin # 1105.
2. Installed new RH engine alternate air control cable P/N 554-181.
3. Installed new turn coordinator P/N 1394T100(1), S/N 759-147 into pilot's instrument panel.
4. Performed gear retraction/extension and emergency gear extention in accordance with Piper maintenance manual. Replaced hydraulic filters and serviced system.
5. Installed new LH main tire.
6. Installed new heater ignition vibrator P/N 14E00-1.
7. Installed four new main gear door rod-ends P/N 454-441.
8. Installed new RH aileron rod-end P/N 452-722.
9. All other airframe and accessory AD's complied with, see separate compliance record.
10. Performed all annual and 100 hour airframe service items as per the manufactures maintenance manual.
11. Replaced ELT Battery and tested ELT in accordance with 91.207. New Battery Due DEC 2004.

I certify that this aircraft was inspected in accordance with an annual inspection per FAR 43 appendix **D** and is found to be in airworthy condition at this time.

Patrick Sullivan / AP 16502301 IA

HOBBS Time: 2341.0 **Aircraft Total Time: 8146.0** **Date 08/08/2003**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Installed Service Kit 766-646 (STABILIZER REAR SPAR MOD. & OTBD HINGE REPLACEMENT) onto horizontal stabilizer in accordance with Piper Service Bulletin 1007. This kit satisfies the requirements of **AD 99-06-01**, this AD is no longer recurring.
2. Replaced landing light P/N GE-4596 with new unit
3. Replaced tail NAV bulb P/N GE-307 with new bulb.
4. Replaced Landing Gear Warning Switch P/N MS25253-1 with new assembly.
5. Replaced LH Engine Driven Hydraulic Pump with overhauled unit. Hydraulic Pump P/N 1213HBG310A, S/N OLO-0433 installed (overhauled unit from Aircraft Accessories of Oklahoma).
6. Completed all 100 Hour service Items in accordance with the manufacturers maintenance manual.
7. Inspected Flaps in accordance with **AD 82-27-13R2.**
8. Replaced ELT Battery and tested ELT in accordance with 91.207. New Battery Due DEC 2004

I certify that this aircraft was inspected in accordance with a **100 Hour inspection** per FAR 43 appendix **D** and is found to be in airworthy condition at this time.

Denis Gregory Lison / AP 2686552

HOBBS Time: 2429.7 **Aircraft Total Time: 8234.7** **Date 02/02/2004**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Installed serviceable Engine Driven Hydraulic Pump P/N 1213HBG310A, S/N OLO-0433 onto RH engine position. This unit was overhauled 9/2/2003 by Aircraft Accessories of Oklahoma (removed from previously installed engine).
2. Installed serviceable Engine Driven Alternator, P/N ALU8421, S/N A109428 onto RH engine (as removed from previously installed engine).
3. Installed all new fluid hoses "firewall forward" on RH engine.
4. Removed engine tachometer, P/N 57-4AW, S/N 5728 and reinstalled following overhaul by Consolidated Instruments of Teterboro, NJ Repair Station # QS2R120L.
5. Removed and reinstalled Oxygen bottle following hydro test, next **HYDRO DUE: JAN 2009**
6. Replaced all LH and RH brake linings.
7. C/W **AD 82-27-13R2** (Flap Inspection) by visually inspecting flaps in accordance with the AD.
8. C/W **AD 2003-24-07** (Rudder Torque Tube) by visually inspecting tube in accordance with the AD. Inspection hole installed 2/10/2003 in accordance with Piper Kit # 767-349.
9. Replaced bushings and bearings in Elevator trim tab attachment fittings.
10. Replaced bushings and bearings in Rudder trim tab attachment fittings.
11. Replaced rod-end bearings on RH Nose gear door actuating rod.
12. Performed all annual and 100 hour airframe service items as per the manufactures maintenance manual.
13. Tested ELT in accordance with 91.207, **ELT Battery Due DEC 2004**

I certify that this aircraft was inspected in accordance with an annual inspection per FAR 43 appendix D and is found to be in airworthy condition at this time.

Patrick Sullivan / AP 16502301 IA

HOBBS Time: 2527.1 **Aircraft Total Time: 8332.1** **Date 5/28/2004**

The following work was completed in accordance with the Piper service manual and FAR 43.

1. Replaced RH main tire with new unit.
2. Serviced Hydraulic resevoir and performed gear swing.
3. Replaced RH main outboard gear door rod-ends.
4. Re-shimmed nose gear knee bushings.
5. Re-shimmed nose steering bell-crank.
6. C/W **AD 82-27-13R2** (Flap Inspection) by visually inspecting flaps in accordance with the AD.
7. Performed all annual and 100 hour airframe service items as per the manufactures maintenance manual.
8. Tested ELT in accordance with 91.207, **ELT Battery Due DEC 2004**

I certify that this aircraft was inspected in accordance with a 100 Hour inspection per FAR 43 appendix D and is found to be in airworthy condition at this time.

Denis Gregory Lison / AP 2686552

DATE 10-8-04
WO# 9781
TACH
T/T
TSMOH
MODEL PA31
S/N 31-7812081
REG N7069D
HOBBS 2617.5

WIGGINS
AIRWAYS
1 Garside Way
Manchester, NH 03108-4920
603-629-9191 Fax 603-668-1180
Repair Station #HI1R193K

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Log Book Attachment:

I certify that the # 1 static system and altimeter, p/n 5035P-P19 s/n 4713 has been inspected and complies with FAR 43 App E to 25K ft.

I certify that the # 1 transponder p/n KT76A s/n 99785 has been inspected and complies with FAR 43 App F.

I certify that I have performed a data correspondence check on the # 1 system to 25K ft and complies with FAR 43 APP E(c)
This aircraft is airworthy with regards to work performed.

DATE 10-8-04
WO# 9781
TACH
T/T
TSMOH
MODEL PA31
S/N 31-7812081
REG N7069D
HOBBS 2617.5

WIGGINS
AIRWAYS
1 Garside Way
Manchester, NH 03108-4920
603-629-9191 Fax 603-668-1180
Repair Station #HI1R193K

Form WA-16 Rev. Original page 1of 1

Log Book Attachment:

I certify that the # 2 static system and altimeter, p/n 5934PA-3 s/n 1K590 has been inspected and complies with FAR 43 App E to 25K ft.

I certify that the # N/A transponder p/n N/A s/n N/A has been inspected and complies with FAR 43 App F.

I certify that I have performed a data correspondence check on the # N/A system to N/A ft and complies with FAR 43 APP E(c)
This aircraft is airworthy with regards to work performed.

HI1R193K