



N323RF Engine Logbooks

ENGINE LOG



NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL TIO-540-AH1A

SERIAL NO. L-10773-61A

DATE 11-6-00

Joe Moore
(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

FORM NO. 777-B (Rev. 3/94)

NOTICE

Making false entries in this book is a violation of government regulations and is punishable by civil penalty.

THIS ENGINE SERVICED WITH
AEROSHELL 15W50
OIL AT THE PIPER FACTORY

LYCOMIN
Manufacturer: _____

Model: T

ENGINE LOG

Engine Time

Recorder



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 12696
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 50.8 S.M.O.H. N/A
A/F T.T. 50.8 Hobbs Time 50.8 Tach Time _____

1. Changed oil and filter, serviced with 12qts Aeroshell 15W/50 oil and installed a new CH48110 oil filter. Checked and cleaned suction screen, cut open old filter and found NO abnormal contaminants in filter or screen.
2. Install winterization plates on oil cooler.
3. Run up and leak checked, NO leaks found.
4. Nothing follows.

Inspector

Mary Dentelle Date 02/06/01

For repair station of Victor Aviation Services, Inc.



VICTOR AVIATION
P.O. BOX 50608
PALO ALTO, CA 9
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION

3. Nothing

D. # 12696
0540AH1A
H. N/A
ime

eroshell
filter. Checked
er and found
n.

Date 02/06/01
Services, Inc.



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13098
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 93.1 S.M.O.H. N/A
A/F T.T. 93.1 Hobbs Time 93.1 Tach Time

1. Changed oil and filter. Serviced with 12qts. Aeroshell 15W/50 oil and installed a new CH48110 oil filter. Checked and cleaned suction screen. Cut open old filter and found NO abnormal contaminants.
2. Run up and leak checked, NO leaks found.

3. Nothing follows.

Inspector Amy Hentzel Date 5-1-01
For repair station of Victor Aviation Services, Inc.

ENGINE LOG



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

Engine Time _____
A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13169/13217
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 102.7 S.M.O.H. N/A
A/F T.T. 102.7 Hobbs Time 102.7 Tach Time _____

4. Nothing follows.

1. Replaced alternator with a factory new alternator.
2. Complied with Piper service bulletin 1049, by installation of Piper service kit 766-684 as per instructions in service kit and bulletin.
3. Run up and verified alternator operation.

Inspector Mary Hentchel Date 6-1-01
For repair station of Victor Aviation Services, Inc.

and Remarks

Date: 06/25/01
Jacked the aircraft.
Serviced the reservoir
leaking. Removed the
gear several times.
Reinstalled the bags.

Signed: Rohit

169/13217

A

ation of
ice kit

-1-01

and Remarks

Signature

Certificate No.

Midway Aviation, Inc.

Date: 06/25/01

Tach: 137.5

Total Time: 137.5

Jacked the aircraft. Removed the baggage compartment floor and checked the hydraulic fluid reservoir, none. Serviced the reservoir and checked the gear, OK. Checked the hydraulic system and found the high pressure switch leaking. Removed the switch and sealed with teflon tape. Reinstalled the switch and serviced the reservoir. Cycled the gear several times and found it to operate normally. Checked the hydraulic system for leaks, none found. Reinstalled the baggage compartment floor. Removed the aircraft from the jacks.

Signed:

Robert J. Pahl AIP# 515460014

Midway Aviation, Inc.
Salina, KS 67401

ENGINE LOG

Engine Time

Remarks



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13209/10
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 146.9 S.M.O.H. N/A
A/F T.T. 146.9 Hobbs Time 146.9 Tach Time _____

1. Changed oil and filter. Serviced with 12qts Aeroshell 15W/50 oil and installed a new CH48110 oil filter. Checked and cleaned suction screen. Cut open old filter and found NO abnormal contaminants.
2. Ran up and leak checked, NO leaks found.
3. Nothing follows.

Inspector Mary Hestrich Date 6-28-01
For repair station of Victor Aviation Services, Inc.



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R3

- with new g
4. Replaced
 5. Checked
 6. Checked
 7. Run up and
 8. I certify that
 9. Nothing found

3209/10
11A
/A

ell
Checked
found

6-28-01
c.



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

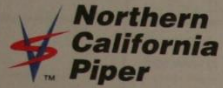
A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13258
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 151.3 S.M.O.H. N/A
A/F T.T. 151.3 Hobbs Time 151.3 Tach Time _____

1. Performed a 100hr/annual inspection using a checklist meeting the requirements of FAR43 Appendix D.
2. Performed compression test, #1-70/80, #2-68/80, #3-68/80, #4-70/80, #5-68/80, #6-70/80.
3. Cleaned, gapped and checked spark plugs. Reinstalled

- with new gaskets.
4. Replaced alternator-cooling duct.
 5. Checked all engine controls.
 6. Checked engine timing.
 7. Run up and leak checked, NO leaks found.
 8. I certify that this engine has been inspected in accordance with a 100hr/annual and was determined to be in airworthy condition.
 9. Nothing follows.

Inspector Ray Hentzel Date 7-24-01
For repair station of Victor Aviation Services, Inc.

ENGINE LOG



P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13461
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 200.1 S.M.O.H. N/A
A/F T.T. 200.1 Hobbs Time 200.1 Tach Time _____

1. Changed oil and filter, serviced with 12qts Aeroshell 15W/50 oil and installed a new CH48110 oil filter. Checked and cleaned suction screen, cut open old filter and found NO abnormal contaminants in filter or screen.
2. Adjusted wastegate to Lycoming specs.
3. Run up and leak checked, NO leaks found.
4. Nothing follows.

Inspector James M. Mook Date 10/31/01

Carry Forward



P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #

W.O. # 13461
 IO540AH1A
 O.H. N/A
 ch Time _____
 Aeroshell
 oil filter. Checked
 filter and found
 en.

Date 10/31/01



P.O. BOX 50608
 PALO ALTO, CA 94301
 (650) 856-7616
 F.A.A. CERTIFIED
 REPAIR STATION #B131

N323RF

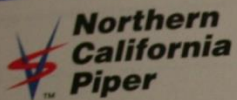
~~3248~~ Hobbs

1. UNITED STATES		2. FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration			3. System Tracking Reference No. MS-172311	
4. Organization		TEXTRON LYCOMING 652 OLIVER STREET WILLIAMSPORT, PA 17701			5. Work Order, Contract or Invoice Number: 33701/96959	
		PRODUCTION CERTIFICATE #3				
6. Item	7. Description	8. Part Number	9. Eligibility*	10. Qty	11. Serial/Batch No.	12. Status/Work
0001	CONTROLLER-SLOPED(EFI)(481058	48B22488 SUPPLIER PART NO: 481058-0007	T.B.V. BY INSTALLER	00001	EIN15628	NEW
13. Remarks AIRWORTHINESS APPROVAL PARTS-THIS FORM IS NOT AN EXPORT APPROVAL VICTOR AVIATION United States Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.						
14. New <input checked="" type="checkbox"/> Newly Overhauled		19. Return to Service in Accordance with FAR 43.9				
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.		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.				
15. Signature <i>Charles Mitchon</i>		16. FAA Authorization No. DMIR800698NE	20. Authorized Signature		21. Certification Number:	
17. Name (Typed or Printed): C. B. MITCH JR		18. Date: 28-DEC-01	22. Name (Typed or Printed):		23. Date:	

FAA Form 8130-3 (NOV-93)

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

The FAA Form 8130-3 and JAA Form One are equivalent
Other countries such as Canada also have equivalent
FAA Form 8130-3 NOV 93



P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13530
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 234.8 S.M.O.H. N/A
A/F T.T. 234.8 Hobbs Time 234.8 Tach Time _____

1. Replaced Controller, s/n EIN15628. Adjusted controller to specs according to Piper maintenance manual.
2. Run up and leak checked, NO leaks found.
3. Nothing follows.

Inspector Frank Mook Date 12/31/01

1461

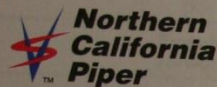
LA

A

Checked
found

12/31/01

ENGINE LOG



P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N323RF A/C Ser. # 3257201 W.O. # 13626
Engine Make LYCOMING Model TIO540AH1A
Serial # L-10773-61A Eng. T.T. 253.7 S.M.O.H. N/A
A/F.T.T. 253.7 Hobbs Time 253.7 Tach Time _____

1. Performed 50 hour inspection.
2. Changed oil and filter, serviced with 12qts of Exxon Elite oil and installed a new CH48110 oil filter. Checked and cleaned suction screen, cut open old filter and found NO abnormal contaminants in filter or screen.
3. Run up and leak checked, NO leaks found.
4. Complied with Service Bulletin No1092 by visual inspection.
5. Nothing follows.

Inspector Frank Mock Date 2/7/02

Carry Forward

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 13627

Engine Entries

PERFORMED 100HR/ANNU
FAR43 APPENDIX D... CH/
ELITE OIL AND INSTALLED
SUCTION SCREEN FOR FC
TEST RESULTS: #1 77/80,
FUEL INJECTOR LINE ANE
GASKETS ON THE NUMBE
INSPECTED IN ACCORDA
AIRWORTHY CONDITION.

DATE: 4/09/02 SIGI
Cert

13626

DAH1A

N/A

on Elite
ed and
und NO

2/7/02

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 13627

NORTHERN CALIFORNIA PIPER
P.O. BOX 50608
PALO ALTO, CA 94303
Repair Station No. BJ3R399L

DATE: 4/09/02
TTA: 273.1
TTE: 273.1
TSMOH: 0
HOBBS: 273.1

No.

Engine Entries

PERFORMED 100HR/ANNUAL INSPECTION USING A CHECKLIST MEETING THE REQUIREMENTS OF FAR43 APPENDIX D.... CHANGED OIL AND FILTER. SERVICED WITH 12 QUARTS OF 20W-50 EXXON ELITE OIL AND INSTALLED A NEW CH48110 OIL FILTER. CUT OPEN OLD FILTER AND CHECKED SUCTION SCREEN FOR FOREIGN MATTER. NO ABNORMAL CONTAMINATES FOUND. COMPRESSION TEST RESULTS: #1 77/80, #2 76/80, #3 76/80, #4 77/80, #5 75,80, #6 78,80... COMPLIED WITH AD 93-02-05 FUEL INJECTOR LINE AND CLAMP INSPECTION. NO FAULTS FOUND.... REPLACED ROCKERBOX GASKETS ON THE NUMBER ONE AND THREE CYLINDERS.... I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION....

DATE: 4/09/02

SIGNED:

Frank Mork

WORK ORDER: 13627

Certified Repair Station No. BJ3R399L

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		



JET AVIATION OF AMERICA, INC. 380 HANSCOM DRIVE, BEDFORD, MA 01730 USA
F.A.A. CERTIFIED REPAIR STATION No. JAVR120F

JET AVIATION

N 323RF MODEL: SARATOGA II R S/N: 3257201

ENGINE MODEL T10-540-AH1A, SN L-10773-61A.
 * CHANGED OIL W/ 12 QTS. EXXON ELITE 20W50 AND CH48110 FILTER
 I/A/W MM 12-10-00, Pg. 12-11/12/13..
 CONTAMINATION CHECK OF FILTER AND SUCTION SCREW NORMAL,
 NO CONTAMINANTS FOUND. OIL SAMPLE TAKEN.
 RUN UP AND LEAK CHECK NORMAL.

The Aircraft / Airframe / Engine / Propeller identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and with respect to the work specified in Work Order UBW 12377 except as otherwise noted in approval for return to service only for the work performed.

Date: 5/29/02 Hours: 321.5

Authorized signature: David Macewen.

FAA CRS-JAVR120F

Total
Car

and Remarks

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 13923

Engine Entries
 PERFORMED OIL AND
 INSTALLED A NEW CH
 ABNORMAL CONTAMI

DATE: 07/17/2002

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14014

Engine Entries
 REMOVED ENGINE

DATE: 09/25/2002

Maintenance

AVIATION

and Remarks	Signature	Certificate No.
-------------	-----------	-----------------

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 13923



NORTHERN CALIFORNIA PIPER
P.O. BOX 50608
PALO ALTO, CA 94303
Repair Station No. BJ3R399L

DATE: 07/17/2002
TTA: 369.00
TTE: 369.00
HOBBS: 369.00

Engine Entries

PERFORMED OIL AND FILTER CHANGE. SERVICED WITH 12 QUARTS EXXON ELITE OIL AND INSTALLED A NEW CH48110 OIL FILTER. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN. NO ABNORMAL CONTAMINATES FOUND. NO LEAKS FOUND AFTER RUN UP....

DATE: 07/17/2002 SIGNED: *Frank Mook* WORK ORDER: 13923
Certified Repair Station No. BJ3R399L

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14014



NORTHERN CALIFORNIA PIPER
P.O. BOX 50608
PALO ALTO, CA 94303
Repair Station No. BJ3R399L

DATE: 09/25/2002
TTA: 393.70
TTE: 393.70
HOBBS: 393.70

Engine Entries

REMOVED ENGINE S/N 10773-61A FOR COMPLIANCE WITH LYCOMING SERVICE BULLETIN NO.552....

DATE: 09/25/2002 SIGNED: *Frank Mook* WORK ORDER: 14014
Certified Repair Station No. BJ3R399L

ENGINE LOG

LYCOMING

A Textron Company

02/19/03 Engine s/n L-10773-61A was removed from service with 393.70 TSN and returned to Textron Lycoming for inspection/repair due to SB552. Engine was disassembled, cleaned, and inspected. Engine was reassembled replacing crankshaft with serial number V537930550, crankshaft idler gear, oil sump baffle, oil filter base, 16 valve springs, and four (4) pistons. Cylinders #1, 2, 4, and 6 were honed replacing springs. Cylinders #3 and 5 were replaced including valves, springs, and seats. Also replaced were all bearings, impellers, tappets, piston rings, all hardware necessary for the repair and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240S, 342D (93-02-05), 475C (91-14-22), 552, 554, 555, 1267C, 1410, 1424, and 1487. All pertinent data relating to this work is on file at Textron Lycoming under work-order CA10773.

S.F. Ellis

S. F. Ellis Repairman #2414657
Repair Station EJ1R115K

END

Total To
Carry Forward



ENGINE
TIO540A
ENGINE
REG. NO.
WORK O

Engine

PERFO
OF FAR
LYCOM
ENGINE
UP... C
CLAMP
BULLE
NO. 76
REINST
BEEN I
BE IN A

DATE:

FAA Repair
Station #EJ1R115K

Form 302A Rev. 3/01

FOR:

Signature

ENGINE MODEL:
TC54DAHTA
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14268



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 03/21/2003
TTA: 393.70
TTE: 393.70
HOBBS: 393.70

Repair Station No. BJ3R399L

Engine Entries

PERFORMED 100HR/ANNUAL INSPECTION USING A CHECK LIST THAT MEETS THE REQUIREMENTS OF FAR 43 APPENDIX D. REINSTALLED ENGINE S/N L-10773-61A AFTER RECEIVING IT BACK FROM LYCOMING AFTER COMPLETION OF SB552. SERVICED ENGINE WITH AEROSHELL 80W OIL. RAN ENGINE AT FULL POWER. NO ADJUSTMENT NECESSARY, NO LEAKS FOUND AFTER ENGINE RUN UP. ... COMPLIED WITH AD 2002-26-01 BY INSPECTING THE FUEL INJECTOR LINES AND SUPPORT CLAMPS. NO FAULTS FOUND. ... COMPLIED WITH SB 1092A BY WELDING BRACKETT PER SERVICE BULLETIN INSTRUCTIONS. ... COMPLIED WITH SERVICE LETTER 1043 BY INSTALLING OIL COOLER KIT NO. 767-332 PER KIT INSTRUCTIONS. THIS WAS ACCOMPLISHED DURING THE ENGINE REINSTALLATION AFTER COMPLIANCE OF LYCOMING SB 552. ... I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ...

DATE: 03/21/2003

SIGNED:

Frank Mole Co. insp.

WORK ORDER: 14268

Certified Repair Station No. BJ3R399L

Williamsport, PA 17701
and returned to Textron
, and inspected. Engine
aft idler gear, oil sump
6 were honed replacing
Also replaced were all
d all perishable items.
etermined to be in an
s complied with 240S,
pertinent data relating

ENGINE LOG

ENGINE MODEL:
T10540AH1A
ENGINE SN: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14365



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 5/19/03
TTA: 423.20
TTE: 423.20
HOBBS: 423.20

Repair Station No. BJ3R399L

Engine Entries

PERFORMED ENGINE OIL AND FILTER CHANGE. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN, NO ABNORMAL CONTAMINATES FOUND. SERVICED ENGINE WITH 12 QUARTS OF EXXON ELITE 20W-50 OIL AND INSTALLED A NEW CH48110 OIL FILTER. NO LEAKS FOUND AFTER ENGINE RUN UP....

DATE: 5/19/03 SIGNED: *Frank Moch co. insp.* WORK ORDER: 14365
Certified Repair Station No. BJ3R399L

ENGINE MODEL:
T10540AH1A
ENGINE SN: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14415



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 06/17/03
TTA: 433.9
TTE: 433.9
HOBBS: 433.9

Repair Station No. BJ3R399L

Engine Entries

REMOVED NUMBER 5 CYLINDER EXHAUST TRANSITION AND EXTRACTED BROKEN BOLT FROM TRANSITION. REINSTALLED NUMBER 5 CYLINDER EXHAUST TRANSITION USING A NEW LW-31-1.31 BOLT....

DATE: 06/17/03 SIGNED: *Frank Moch co. insp.* WORK ORDER: 14415
Certified Repair Station No. BJ3R399L

Total
Carry Forward



ENGINE MODEL:
T10540AH1A
ENGINE SN: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14439

Engine Entries

INSTALLED JPI EDM 7001
JP INSTRUMENTS GASKET
OPERATIONAL CHECK W
POH. FILED FORM 337....

DATE: 08/12/03 SIG
Cer

ENGINE MODEL:
T10540AH1A
ENGINE SN: L-10773-61A
REG. NO. N323RF
WORK ORDER: 14540

Engine Entries

PERFORMED OIL AND FIL
INSTALLED A NEW CH481
ABNORMAL CONTAMINAT

DATE: 09/03/03 SIG
Cert

DATE: 5/19/03
TTA: 423.20
TTE: 423.20
HOBS: 423.20

EXXON
ELITE

14365

6/17/03
433.9
433.9
433.9

15

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 14439



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 08/12/03
TTA: 449.00
TTE: 449.00
HOBS: 449.00

Repair Station No. BJ3R399L

Engine Entries

INSTALLED JPI EDM 700 IN ACCORDANCE WITH STC SA2586NM.... REPLACED NUMBER 3 CYLINDER JP INSTRUMENTS GASKET TYPE CHT PROBE WITH OPTIONAL ADAPTER TYPE CHT PROBE. OPERATIONAL CHECK WAS SATISFACTORY.... UPDATED WEIGHT AND BALANCE AND INSERTED IN POH. FILED FORM 337....

DATE: 08/12/03 SIGNED: *Frank Moch co. insp.* WORK ORDER: 14439

Certified Repair Station No. BJ3R399L

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 14540



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 09/03/03
TTA: 474.60
TTE: 474.60
HOBS: 474.60

Repair Station No. BJ3R399L

Engine Entries

PERFORMED OIL AND FILTER CHANGE. SERVICED WITH 12 QUARTS EXXON ELITE OIL AND INSTALLED A NEW CH48110 OIL FILTER. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN. NO ABNORMAL CONTAMINATES FOUND. NO LEAKS FOUND AFTER RUN UP....

DATE: 09/03/03 SIGNED: *Frank Moch co. insp.* WORK ORDER: 14540

Certified Repair Station No. BJ3R399L

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-01A
REG. NO: N323RF
WORK ORDER: 14730



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

DATE: 01/30/04
TTA: 518.40
TTE: 518.40
HOBSBS: 518.40

Repair Station No. BJ3R399L

Engine Entries

PERFORMED ENGINE OIL AND FILTER CHANGE. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN, NO ABNORMAL CONTAMINATES FOUND. SERVICED ENGINE WITH 12 QUARTS OF 20-50 ELITE EXXON OIL AND INSTALLED A NEW CH48110 OIL FILTER. NO LEAKS FOUND AFTER ENGINE RUN UP....

DATE: 01/30/04 SIGNED: *Frank M. [unclear] co. insp.* WORK ORDER: 14730
Certified Repair Station No. BJ3R399L

MAY 3, 2004	539.6	HOBSBS/TTE	Removed Engine
		from Piper PA-32R-301T, S/N 3257201,	
		N323RF.	APP 545138835
Total To Carry Forward			

217420
305 2011

#2,4
#1,3,
PER PHONE
11/10/08

004
8.40
8.40
1.40

Maintenance

and Remarks

Signature

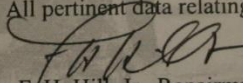
Certificate

LYCOMING

A Textron Company

652 Oliver Street
Williamsport, PA 17701

6/7/04 Engine s/n L-10773-61A was removed from service with 539.6 TT and returned to Lycoming for inspection/repair due to crankcase leak. Engine was disassembled, cleaned, and inspected. 4 cylinders were honed. Engine was reassembled replacing 2 cylinders including valves, springs, and seats, magneto serial number 4040750, 2 exhaust valves, crankshaft gear, all bearings, rings, and all other hardware necessary for the repair, and all perishable items. Engine was tested in accordance with Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240S, 342D (2002-26-01), 475C (91-14-22), 554, 555A, and SI 1267C, 1410, 1424, and 1487. All pertinent data relating to this work is on file at Lycoming under work order CR04056.


F.H. Hill, Jr. Repairman # 2395329
Repair Station EJ1R115K

END

#2, 4 - REPLACED

#1, 3, 5, 6 - HONED

PER PHONE CALL TO LYCOMING

11/10/08

ENGINE 2

257201,

8835

Maintenance

and Remarks

Signature


Certificate No.

Trade Winds Aviation 2505 Cunningham Ave San Jose CA

July 7, 2004 539.9 Hobbs / TTENG N323RF

ENGINE LOG:

Inspected engine following installation by Juan Raya
A&P 545138835; complied with AD2002-26-01 by
inspection of fuel injector lines, next due in 100 hours.
Complied with Lycoming SB558 by records check not
applicable by serial number. Complied with Lycoming
SB557 by inspection, not applicable by serial number. I
certify this engine has been inspected in accordance
with an annual inspection and was determined to be in
airworthy condition.


Thomas Nicholson IA 2522802

Maintenance

and Remarks	Signature	Certificate No.
7/22/2004 Test flight performed. Turbo charger performance normal. No other problems found. Robert French 2696510 Safe to return to service.		

ENGINE MODEL:
T10640AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15169



NORTHERN CALIFORNIA PIPER

P.O. BOX 50608
PALO ALTO, CA 94303

Repair Station No. BJ3R399L

DATE: 01/12/2005
TTA: 578.30
TTE: 578.30
HOBBS: 578.30

Engine Entries

CHANGED OIL AND FILTER. SERVICED WITH 12 QUARTS OF EXXON ELITE 20W-50 OIL AND INSTALLED A NEW CH48110-1 OIL FILTER. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN. NO ABNORMAL CONTAMINATES FOUND. NO LEAKS FOUND AFTER ENGINE RUN UP. ... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15169 DATED 01/12/2005....

DATE: 01/12/2005 SIGNED: *Frank Mark co. insp.* WORK ORDER: 15169
Certified Repair Station No. BJ3R399L

Trade Winds Aviation 2505 Cunningham Ave San Jose CA 95148

N323RF

Hobbs: 621.4

Engine

9/7/2005

Changed engine oil using EXXON Elite 20W50. Removed oil finger screen and removed / cut open oil filter for inspection - all appears normal. Took cylinder compressions: 1)76/80 2)78/80 3)76/80 4)78/80 5)78/80 6)76/80. Removed, cleaned, gapped, tested and rotated all spark plugs. Inspected / cleaned fuel gascolator and fuel servo inlet screens. Inspected/Cleaned fuel injector nozzles. Adjusted wastegate clearance. Removed cylinders # 1&3 exhaust stacks to inspect cylinder #1 exhaust stack. Inspected and re-installed with new gasket - P/N 77611 (2). Performed 500 hour inspection of R/H magneto. All work performed in accordance with manufacture instructions. Ran engine - no leaks noted. Performed full power static ground run - all functions normal. Complied with AD 2002-26-01, fuel injector lines - next due in 100 hours, subsequent Annual inspection or when fuel lines are serviced, removed or replaced. Nothing Follows-

Ricardo Martinez, A&P 550730870

Trade Winds Aviation 2505 Cunningham Ave San Jose CA 95148

N323RF

Hobbs / TTENG: 621.4

Engine

9/7/2005

I Certify this engine has been inspected in accordance with an Annual Inspection, was found to be airworthy and is approved for return to service. Nothing Follows

Ricardo Martinez, A&P/IA 550730870

Carry Forward



ENGINE MODEL: TIO54DAH1A
ENGINE SN: L-10773-81A
REG. NO: N323RF
WORK ORDER: 15796

Engine Entries
CHANGED OIL AND FILT
CH48110-1 OIL FILTER. C
FOUND. NO LEAKS FOU
AT THIS AGENCY UNDE

DATE: 3/15/2006

ENGINE MODEL: TIO54DAH1A
ENGINE SN: L-10773-81
REG. NO: N323RF
WORK ORDER: 15819

Engine Entries
REMOVED #1 TOP
PERFORMED A M
FILE AT THIS AGE

DATE: 8/1/2006

CA 95148

9/7/2005

cut open oil
6/80 4)78/80
cleaned fuel
ed wastegate
cted and re-
. All work
full power
due in 100
g Follows-

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15706



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R396L
1901 EMBARCADERO ROAD
PALO ALTO, CA 94303
Phone: 650-856-7616

DATE: 3/15/2006
A/C TSN: 658.6
ENG TT: 658.6
HOBS: 658.6

Engine Entries

CHANGED OIL AND FILTER. SERVICED WITH 12 QUARTS OF EXXON ELITE 20W-50 OIL AND INSTALLED A NEW CH48110-1 OIL FILTER. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN. NO ABNORMAL CONTAMINATES FOUND. NO LEAKS FOUND AFTER ENGINE RUN UP.... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15706 DATED 3/10/2006.

DATE: 3/15/2006

SIGNED:

Frank Moch co. insp.

Work Order: 15706

Printed by EBis 3 (datamedia.com)

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15819



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R396L
1901 EMBARCADERO ROAD
PALO ALTO, CA 94303
Phone: 650-856-7616

DATE: 6/1/2006
A/C TSN: 688.2
ENG TT: 688.2
HOBS: 688.2

Engine Entries

REMOVED #1 TOP AND BOTTOM SPARKPLUGS. CLEANED, TESTED AND REINSTALLED. RAN ENGINE AND PERFORMED A MAGNETO CHECK. NO FAULTS FOUND.... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15819 DATED 6/1/2006.

DATE: 6/1/2006

SIGNED:

Frank Moch co. insp.

Work Order: 15819

Printed by EBis 3 (datamedia.com)

95148

7/2005

irworthy

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15853



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R399L
1901 EMBARCADERO ROAD
PALO ALTO, CA 94303
Phone: 650-856-7616

DATE: 7/10/2006
A/C TSN: 718.6
ENG TT: 718.6
HOBBS: 718.6

Engine Entries

PERFORMED ENGINE OIL AND FILTER CHANGE. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN, NO ABNORMAL CONTAMINATES FOUND. SERVICED ENGINE WITH 12 QUARTS OF EXXON ELITE 20W-50 OIL AND INSTALLED A NEW CH48110-1 OIL FILTER. NO LEAKS FOUND AFTER ENGINE RUN UP.... REMOVED #1 CYLINDER SPARKPLUGS CLEANED, CHECKED GAP, TESTED AND RE-INSTALLED. CONFIRMED #1 CYLINDER EGT PROBE IS OPERATIONAL AND INSTALLED IN CORRECT CYLINDER. RAN ENGINE AND PERFORMED A SATISFACTORY MAGNETO CHECK.... REMOVED WASTEGATE ACTUATOR ROD FROM WASTEGATE CONTROL ARM, ADJUSTED LINKAGE TO ALLOW WASTEGATE TO CLOSE TO SPECIFICATION NOTED IN SARATOGA MAINTENANCE MANUAL SECTION 82-20-00. LUBRICATED WASTEGATE VALVE WITH MOUSEMILK LUBRICANT. RE-CONNECTED WASTEGATE ACTUATOR ROD TO WASTEGATE CONTROL ARM. REPLACED WASTEGATE STABILIZATION SPRING. RAN ENGINE AND PERFORMED SATISFACTORY GROUND RUN UP. NO LEAKS NOTED AFTER WORK COMPLETION.... REPAIRED CRACKED LEFT SIDE REAR METAL COOLING BAFFLE WITH DOUBLER.... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15853 DATED 6/28/2006.

DATE: 7/10/2006

SIGNED:

Frank Moch co. insp.

Work Order: 15853

Printed by EBis 3 (datamedia.com)

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15917



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R399L
1901 EMBARCADERO ROAD
PALO ALTO, CA 94303
Phone: 650-856-7616

DATE: 7/19/2006
A/C TSN: 720.1
ENG TT: 720.1
HOBBS: 720.1

Engine Entries

COMPLIED WITH AD 2002-26-01 BY INSPECTING THE FUEL INJECTOR LINES AND SUPPORT CLAMPS. NO FAULTS FOUND. NEXT INSPECTION DUE 820.1 OR ON CONDITION.... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15917 DATED 8/14/2006.

To
Ca

DATE: 7/19/2006

SIGNED:

Frank Moch co. insp.

Work Order: 15917

Printed by EBis 3 (datamedia.com)

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-61A
REG. NO: N323RF
WORK ORDER: 15917



NC

Reg
190
PA
Ph

Engine Entries

REMOVED TOP AND BOTTOM ENGINE 568-342 AND WORN COMPRESSOR SYSTEM WITH R-134 REFRIGERANT. ENGINE COWLINGS AFTER WORK COMPLETION UNDER WORK ORDER

DATE: 9/12/2006

SIGNED

Trade Winds Avia
October 16, 2006
N323RF
ENGINE LOG:

1. Removed and following on 07146. Pres
2. Removed, c
3. Removed, c one plug w

Jaime Ferna

Jaime Ferna

ENGINE MODEL:
TIO540AH1A
ENGINE S/N: L-10773-61A
REG. NO. N323RF
WORK ORDER: 15917



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R396L
1901 EMBARCADERO ROAD
PALO ALTO, CA 94303
Phone: 650-956-7616

DATE: 9/12/2006
AC TSN: 734.1
ENG TT: 734.1
HOBBS: 734.1

Engine Entries

REMOVED TOP AND BOTTOM ENGINE COWLINGS. REPLACED LEAKING COMPRESSOR DISCHARGE HOSE P/N 566-342 AND WORN COMPRESSOR SUCTION HOSE FITTING AT THE LEFT SIDE FIREWALL P/N 584-257. SERVICED SYSTEM WITH R-134 REFRIGERANT. GROUND RUN UP COOLING CHECK WAS SATISFACTORY. REINSTALLED ENGINE COWLINGS AFTER WORK COMPLETION... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 15917 DATED 8/14/2006.

DATE: 9/12/2006

SIGNED:

Frank Mock co-insp

Work Order: 15917

Trade Winds Aviation 2505 Cunningham Ave San Jose CA

October 16, 2006 742.6 Hobbs / TTENG

N323RF

ENGINE LOG:

1. Removed and installed engine driven fuel pump following overhaul by B&S Aircraft, w/o #R06-07146. Pressurized system to check for leaks.
2. Removed, cleaned, installed fuel injectors.
3. Removed, cleaned, installed spark plugs, replacing one plug with new due to a crack in ceramic.

Jaime Fernandez A&P# 562710662

Jaime Fernandez

ENGINE LOG

Trade Winds Aviation 2505 Cunningham Ave San Jose CA

November 1, 2006 742.6 Hobbs / TTENG N323RF

ENGINE LOG:

1. Complied with AD2002-26-01 by inspection of fuel injector lines, next due in 100 hours.
2. Changed oil using Exxon Elite 20W50. Inspected filter element and suction screen for contamination.
3. Removed magnetos, re-timed internal, inspected points, capacitors, coils, distributor blocks and gears, oil seals, impulse coupling (LH mag). Reassembled using new distributor block, gear, points, and harness for RH magneto, installed and timed to engine 20deg. BTDC using new pressurization kit.
4. Adjusted idle speed and idle mixture.
4. Checked compressions /80 PSI: 1. 78 2. 78 3. 78 4. 78 5. 78 6. 78
5. I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Thomas Nicholson A&P, IA 2522802

Maintenance

Total To Carry Forward

ENGINE MODEL: TC640A11A
ENGINE SN: L-1
REG. NO: N323RF
WORK ORDER:

Engine Entry
COMPLIED WITH
OWNER, TOP
ABOVE REPAIR

DATE: 5/15/2006

1. Approving National Authority/Country

FAA/UNITED STATES

4. Organization

6. Item: 7. Description

D001 COUPLING

13. Remarks

Eligibility Block

14. Certifies conformity to

Approved

Non-approved

15. Authority

F. H. H.

17. Name

F. H. H.

It is important to

part/com

Where the

the airworthiness

Statement

an installation

FAA Form

ENGINE MODEL: TC640A11A
ENGINE SN: L-1G
REG. NO: N323RF
WORK ORDER: 11

Engine Entry
PERFORMED BY
ABNORMAL CONDITION
INSTALLED AND
THE ABOVE REPAIRS

DATE: 6/22/2006

Maintenance

ENGINE MODEL: TIO540A1A
ENGINE S/N: L-1
REG. NO. N323RF
WORK ORDER:

Engine Entry
COMPLETED BY
OWNER, TOR
ABOVE REPAIR

DATE: 5/15/2007

ENGINE MODEL: TIO540A1A
ENGINE S/N: L-10
REG. NO. N323RF
WORK ORDER: 11

Engine Entry
PERFORMED BY
ABNORMAL CC
INSTALLED AND
THE ABOVE REPAIR

DATE: 6/22/2007

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number MS- 302379	
4. Organization Name and Address: LYCOMING ENGINES 652 OLIVER STREET WILLIAMSPORT, PA 17701				PRODUCTION CERTIFICATE #3		5. Work Order, Contract or Invoice Number: 78874/240634	
6. Item	7. Description	8. Part Number	9. Eligibility*	10. Qty	11. Serial/Batch No.	12. Status/Work	
0001	COUPLING-V BAND (1.41 RET	40D23255-340M	N/A	00001	N/A	NEW	
13. Remarks AIRWORTHINESS APPROVAL PARTS-FOR DOMESTIC SHIPMENTS ONLY TEX-AIR PARTS INC United States Eligibility Block 9 indicates only one of many approved models. Numerous other models may be eligible for the same part.							
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. 14 CFR 43.9 Return to Service Other regulation in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43, in respect to that work, the items are approved for return to service			
15. Authorized Signature 		16. Approval/Authorization No. ODARF-830878-NE	20. Authorized Signature		21. Approval/Cert Number:		
17. Name (Typed or Printed): F. H. HILL JR		18. Date(m-d-y): APR-13-2007	22. Name (Typed or Printed):		23. Date(m-d-y):		
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

FAA Form 8130-3 (JUN-01)

*Installer must cross check eligibility with applicable technical data.

Printed by EBIS 3 (datcomedia.com)

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-81A
REG. NO: N323RF
WORK ORDER: 16150



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R399L
1901 EMBARCADERO ROAD
Palo Alto, CA 94303
Phone: 650-856-7616

DATE: 5/15/2007
A/C TSN: 776
ENG TT: 776
HOBS: 776

Engine Entries

COMPLIED WITH SB1180A (MARCH 14TH, 2007) BY REPLACING THE TURBO EXHAUST COUPLER, SUPPLIED BY OWNER, TORQUED AND SAFTIED... ADJUSTED ENGINE IDLE SPEED TO 750 RPM... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 16150 DATED 4/24/2007**

DATE: 5/15/2007

SIGNED:

Juanh Moch co. insp.

Work Order: 16150

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
T10540AH1A
ENGINE S/N: L-10773-81A
REG. NO: N323RF
WORK ORDER: 16193



NORTHERN CALIFORNIA PIPER

Repair Station No. BJ3R399L
1901 EMBARCADERO ROAD
Palo Alto, CA 94303
Phone: 650-856-7616

DATE: 6/22/2007
A/C TSN: 785.9
ENG TT: 785.9
HOBS: 785.9

Engine Entries

PERFORMED ENGINE OIL AND FILTER CHANGE. CUT OPEN OLD FILTER, CHECKED SUCTION SCREEN, NO ABNORMAL CONTAMINATES FOUND. SERVICED ENGINE WITH 12 QUARTS OF EXXON ELITE 20W-50 OIL AND INSTALLED A NEW CH48110-1 OIL FILTER. NO LEAKS FOUND AFTER ENGINE RUN UP... PERTINENT DETAILS OF THE ABOVE REPAIRS ARE ON FILE AT THIS AGENCY UNDER WORK ORDER 16193.

DATE: 6/22/2007

SIGNED:

Juanh Moch co. insp.

Work Order: 16193

Printed by EBis 3 (datcomedia.com)

1/2007
809 5
309 5

and Remarks

Trade Winds Aviation 25

January 11, 2008 84

Engine Log Entry

1. Installed turbocharger Turbo Systems, Inc done using new attachment
2. Installed wastegate Main Turbo system Installation done using
3. Ran up engine to 1000 RPM no leaks and that manifold
4. Recommend a test at critical altitude setting

Thomas Nicholson A&P

SERVICEABLE

Mfgr. Name Garrett Part No. 46019836F
 Part Name turbocharger Serial DJL24566

The aircraft component identified above was completely overhauled in accordance with the manufacturer's specifications and with the current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under Work Order No. 37598

Date 1-7-08 Signed Dan Mann
 (Signature of Authorized Individual)

MAIN TURBO SYSTEMS, INC.

234 Cotta Ct • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960

CAUTIONS

Do not overheat

Do not use soft objects will cause damage

Do not use turbocharger openings.

Do not use bolts missing or (A bolt kit may be used)

Do not use Pertinent Overhaul Instructions are correctly followed

Do not use housing (cast iron) to permit the housing opening of the housings

Do not use manifold

Do not use outlet pads will mate

Do not use must be at the bottom

W
D
H
32

DATE: 8/1/2007
A/C TSN: 809.5
ENG TT: 809.5
HOBS: 809.5

WASTEGATE ASSEMBLY
E TO .150" PER
RAN ENGINE,
ABOVE REPAIRS

Work Order: 16228

(datcomedia.com)

CHANGE
DRAINED
ON ELITE
TERT W
ENGINE
835

and Remarks	Signature	Certificate No.
<u>Trade Winds Aviation 2505 Cunningham Ave San Jose CA</u> January 11, 2008 846.0 Tach N323RF Engine Log Entry		
1. Installed turbocharger following overhaul by Main Turbo Systems, Inc. work order 37598. Installation done using new attach hardware.		
2. Installed wastegate assembly following overhaul by Main Turbo systems, Inc. work order 37600. Installation done using new gaskets.		
3. Ran up engine to operating temperature and verified no leaks and that manifold pressure is normal.		
4. Recommend a test flight be performed to verify critical altitude settings.		
Thomas Nicholson A&P 2522802		

Following torque settings:
100-130 in-lbs
80-100 in-lbs
40-60 in-lbs
180 in-lbs
40-80 in-lbs
180 in-lbs
70-80 in-lbs
50-70 in-lbs
Torque

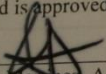
ENGINE LOG

Date	Engine Time	Recorder	Maintenance
	Th <u>Trade Winds Aviation 2505 Cunningham Av San Jose CA 95148</u> N323RF Hobbs: 846.0	Engine 1/11/2008	
Brou Forw	Replaced intake gaskets - P/N 71973 - and exhaust gaskets - P/N 77611 (2) - for cylinders #1&3. Replaced rocker cover gaskets - P/N 76036 - for cylinders # 1,3,5. Cleaned fuel injector nozzles. Complied with AD 2002-26-01, fuel line inspection - next due in 100 hours, subsequent Annual Inspection or when fuel lines are removed, replaced or serviced. Nothing Follows----- <i>[Signature]</i>		
	Vladimir Sayno, A&P 3215707		
	<u>Trade Winds Aviation 2505 Cunningham Av San Jose CA 95148</u> N323RF Hobbs: 846.0		
	Engine 1/11/2008		
	Cleaned spark plugs. Cleaned fuel gascolator. Installed propeller after overhaul - See Sullivan Propeller Specialists Work Order # 6896 for more information. Nothing Follows-----		
	<i>[Signature]</i>		
Total To Carry Forward	Hechmi Elfeki 3099810	A+P 3099810	

and Remark	Trade Winds Aviat
	N323RF Hobbs / TTENG: 8 Changed engine oil u and removed / cut op cylinder compression Gapped, tested and P/N RHB36S. Ran ground run - all fur in accordance with time and is approve Ricardo Martinez

Test flight perform
 Turbo charger crit:
 4/13/08 RUCATS

Maintenance

and Remarks	<u>Trade Winds Aviation 2505 Cunningham Av San Jose CA 95148</u>	1/11/2008	Certificate No.
	N323RF Engine		
Hobbs / TTENG: 846.0 Changed engine oil using Exxon Elite 20W50. Removed oil finger screen and removed / cut open oil filter for inspection - all appears normal. Took cylinder compressions: 1)72/80 2)75/80 3)76/80 4)75/80 5)75/80 6) 75/80. Gapped, tested and rotated all spark plugs. Replaced one spark plug - P/N RHB36S. Ran engine - no leaks noted. Performed full power static ground run - all functions normal. I Certify this engine has been inspected in accordance with an Annual Inspection, was found to be airworthy at this time and is approved for return to service. Nothing Follows-----			
 Ricardo Martinez, A&P / IA 550730870			
Test flight performed. All operations and systems normal. Turbo charger critical altitude ~ 11,500 feet. 1/13/08 Pyletfrance 2696510			

ENGINE LOG

Date Trade Winds Aviation 2505 Cunningham Av San Jose CA 95148
 N323RF Engine 8/18/2008
 Hobbs: 866.5
 Changed engine oil using Exxon Elite 20W50. Removed oil finger screen and removed/cut open oil filter for inspection - all appears normal. Ran engine, no leaks noted-----
RM
 Ricardo Martinez, A&P 550730870

Trade Winds Aviation 2505 Cunningham Av San Jose CA 95148
 N323RF Engine 8/18/2008
 Hobbs: 866.5
 Removed lower spark plugs (Cyl's #1-6), cleaned, tested and reinstalled. Replaced cylinder #6 top spark plug - P/N RHB37E. Lubed wastgate and verified smooth operation-----
V Sayno
 Vladimr Sayno, A&P 3215707

DEC. 1, '08 TAC: 884.3
 R&R #1 & #6 CYLINDERS FOR REPAIR FOR LOW DIFF. COMPRESSION. ASSY RING-PISTON ASSYS TO CYLS, W/SEAL RINGS ALREADY FIT & BARRELS HONED (SEE WHITE TAGS)
 CHANGED OIL & FILTER W/ EXXON ELITE 20/50 & CH 48110-1 & SAFETIED. CHECKED ENGINE. OPS. CHECK - LEAK CHECK - SOME PITTING RUST FOUND ON CAM. OBTAINED FERRY PERMIT TO FLY AIRCRAFT TO LOCATION FOR FURTHER MAINTENANCE REPAIRS. PLUGS CLEAN ALL OTHER COMPRESSIONS OK.
 C/W A.O. # 2002-26-01 BY INSP. *Robert J. ...*
 C/W A.O. # 2008-08-14 BY INSP. *J.A. 2186235*
 C/W A.O. # 2008-14-07 BY INSP.

and Remarks



Engine Log Date: Decem
 N323RF PA-32R-301T Seri
 T10-540-AH1A S/N L-1077
 Engine Total Hours: 897.9
 Removed this engine from
Larry E. Russell
 Larry E. Russell 377663991
 Bartelt Aviation, Inc. (269)
 SEE PENN YAN AERO ENG

THIS ENGINE

Maintenance

and Remarks

Signature

Certificate No.

BARTELT AVIATION, INC.

1301 WEST LAFAYETTE STURGIS, MI 49091



Engine Log Date: December 12, 2008

N323RF PA-32R-301T Serial No. 3257201

T10-540-AH1A S/N L-10773-61A

Engine Total Hours: 897.9 Aircraft Hobbs: 897.9

Removed this engine from N323RF S/N 3257201 for overhaul by Penn Yan Aero due to contamination.

Larry E. Russell
Larry E. Russell 3776639961A

Bartelt Aviation, Inc. (269)-651-5431

SEE PENN YAN AERO ENGINE LOG BOOK FOR NEXT ENTRY.

THIS ENGINE LOG BOOK CLOSED. 12/12/08

FOR LOW DIFF.
S TO CYLS, W/SEAL
SEE WHITE TAGS
150 & CH48110-1
- LEAK CHECK-20
NEED FERRY
CATION FOR
S. PLUGS CLEAN
1/3
12/18/08

Engine Maintenance Records

Log Number:	_____
Aircraft Registration Number:	_____
Engine Manufacturer:	<i>Lycoming</i>
Model:	<i>TIO-540-A11A</i>
Serial Number:	<i>L-10773-61A</i>
Date Installed on Aircraft:	_____
Time Between Overhauls:	<i>2000 hours</i>
Engine Position:	_____

The Power of Experience

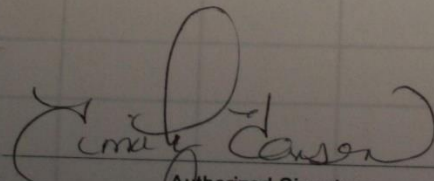
PENN YAN AERO

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Perform
<i>Balance Forward</i>				

This is to certify that the engine described hereafter has been overhauled by Penn Yan Aero to new parts tolerances and limits as specified by the manufacturer. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.

This engine has been dynamic balanced in accordance with FAA Approved Process Specification AMP-4302.

Installed new Lycoming P/N: 05K21262 cylinder kits.


Authorized Signature

Our WO#
27834-09

Dated
3/2/2009

Engine Model
TIO-540-AH1A

Serial Number
L-10773-61A

This engine has been remanufactured to Zero Time Tolerances by Penn Yan Aero Service, Inc.

Previous Time in Service
Not supplied



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

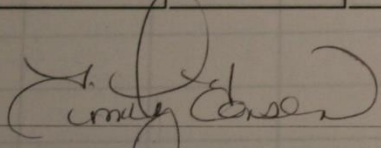

www.pennyanero.com


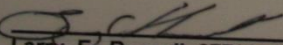
FAA Approved Repair Station: Y2GR396Y

EASA 145.5936

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				Balance Forward

The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:

Engine Model TIO-540-AH1A			Right Magneto - Part# 6360	Right Magneto - SN# 00080409
Serial Number L-10773-61A			Left Magneto - Part# 6361 (New)	Left Magneto - SN# 08091873
Our WO# 27834-09			Injector/Carb - Part# 2576554-2	Injector/Carb - SN# 70225307
Invoice Date 3/2/2009			Fuel Pump - Part# RG9080-J4A/M	Fuel Pump - SN# C-1509
 Authorized Signature			Starter - Part# 149-24PM (New)	Starter - SN# F4P-440702
			Turbo - Part# 46C19836	Turbo - SN# DJL24566
 Penn Yan Aero 2499 Bath Road, Penn Yan, New York 14527 Telephone: 1-315-536-2333 www.pennyanero.com FAA Approved Repair Station: Y2GR396Y EASA 145.5936			Controller - 1 - Part# 48B22488	Controller - 1 - SN# EIN15628
			Controller - 2 - Part# 470944-4	Controller - 2 - SN# DGN9799
			Wastegate - Part# 47J22459	Wastegate - SN# DJN11098

Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 3
			<i>Balance Forward</i>	
			<p align="center">BARTELT AVIATION, INC. 1301 WEST LAFAYETTE STURGIS, MI 49091</p> 	
			Engine Log Date: April 3, 2009	
			<p>N323RF PA-32R-301T Serial No. 3257201 TI0-540-AH1A S/N L-10773-61A Engine Total Hours: 897.9 SMOH: 0.0 Aircraft Hobbs: 897.9 Reinstalled this engine on N323RF, S/N 3257201 after Major Overhaul by Penn Yan Aero. (W.O. 27834-09). New 2ea J-9613-12 and 2ea J-9613-19 Lord Mounts. Installed the following new Flex Hoses not supplied by overhaul facility, 1ea 124F003-8CR0222, 1ea 124F003-8CR0320, 1ea 124F002-8CR0136, 1ea 124F003-8CR0220, 1ea 124F003-4CR0174, 1ea 124F001-4CR0340. Complied per AD 95-26-13 (Due every 8years or 1000hrs) Oil Cooler Hose Replacement. Inspected and flushed both Oil Coolers. Complied per AD 84-26-02 (Due every 500hrs) Induction Air Filter. Installed new Piper P/N 561-020 Air Filter. Installed Propeller Model: HC13YR- 1RF, S/N HK6663B after flush and reseal by Tiffin Aire, See Prop Log for details. Prop Governor P/N V5-6, S/N A1903J reinstalled after repairs by Tiffin Aire, Inc. See Prop Log for details. Complied per Piper Service Bulletin 1180A Exhaust V-Band Inspection. Installed new V-Band Clamp at Turbo. Checked engine controls for proper operation. Reinstalled Tempest AA3215CC Vacuum Pump in as removed condition (Pump Total Hours: 358.0). Reinstalled Alternator in as removed condition (Alt Total Hours: 795.2). Serviced engine with 12qts Aeroshell 65. Inspected all air inlet duct hoses. Installed new Alternator inlet air scat hose. Inspected alternate air valve and housing. Performed ground run operations per Penn Yan Aero Operating Recommendations and Textron Lycoming Service Instructions 1427B. Mag drop within limits per Textron Lycoming Service Instruction 1132. Engine checks satisfactory, no leaks noted. Flight test to follow. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p>	
			 Larry E. Russell 377663996IA Bartelt Aviation, Inc. (269)-651-5431	
			Totals - Carry Forward	

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 4
------	-----------------------	---------------------------	------------------------------	---	---------

BARTELT AVIATION, INC.
 1301 WEST LAFAYETTE STURGIS, MI 49091



Engine Log Date: May 2, 2009

N323RF PA-32R-301T Serial No. 3257201
 T10-540-AH1A S/N L-10773-61A
 Engine Total Hours: 898.9 SMOH: 1.0 Aircraft Hobbs: 898.9
 Engine will not idle properly. Removed and reinstalled Fuel Pump P/N RG9080J4A/M, Serial No. C-1509, and Fuel Injector P/N 2576554-2 (RSA-10ED1), Serial No. 70225307, after repairs by Ametek B&S Aircraft Parts & Accessories. See Forms 8130-3, W.O. R09-02293 & R09-02287. Performed ground run. Adjusted Idle Mixture & RPM to mfg specs.

[Signature]
 Larry E. Russell 377663996IA
 Bartelt Aviation, Inc. (269)-651-5431

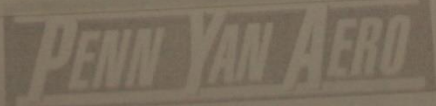
BARTELT AVIATION, INC.
 1301 WEST LAFAYETTE STURGIS, MI 49091



Engine Log Date: May 13, 2009

N323RF PA-32R-301T Serial No. 3257201
 T10-540-AH1A S/N L-10773-61A
 Engine Total Hours: 910.7 SMOH: 12.8 Aircraft Hobbs: 910.7
 Changed Oil and Filter. Inspected filter for contamination, none noted. Installed new CH48110-1 Filter. Added 11qts Aeroshell 100 (50wt). Performed ground run-up, no leaks noted.

[Signature]
 Larry E. Russell 377663996IA
 Bartelt Aviation, Inc. (269)-651-5431



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 5
------	-----------------------	---------------------------	------------------------------	---	---------

N323RF Piper PA-32R-301T S/N:3257201 TIO-540-AH1A S/N:L-10773-61A
 Eng TT: 931.5 TSMOH: 33.6
 Hobbs: 928.5

Completed a 25hr oil change IAW Piper PA-32R-301T Maintenance/Service manuals and Lycoming TIO-540-AH1A shop manual. Drained oil, removed oil filter, drained oil cooler. Remove inspect clean Reinstall oil sump finger screen. Complete a detailed visual inspection on the engine. Install new Champion CH48110-1 oil filter. Serviced engine with 11qts of Aero Shell 100 mineral oil for the next 25 hrs. Cut open oil filter for inspection. No discrepancies noted

Edward A Dellarco A&P 174363424

E. A. Dellarco

N323RF Piper PA-32R-301T S/N 3257201 Lycoming TIO-540-AH1A
 Engine S/N L-10773-61A TT Eng: 966.9 TSMOH: 69.0
 06/03/2009

Removed upper and lower cowling. Removed #6 cylinder exhaust push rod housing. Replaced push rod tube assembly inner and outer seals P/N LW-18661 and sleeve P/N 61503. Reinstalled push rod, and rocker arm Installed rocker box cover utilizing new gasket P/N 67193. All work performed IAW Lycoming Maintenance/Service/Overhaul Manual. Run engine for work performed, with no discrepancies noted.

This engine is approved for return to service

Edward A Dellarco A&P 174363424

E. A. Dellarco

Totals - Carry Forward

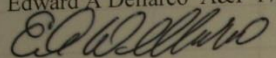


Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 6
------	-----------------------	---------------------------	------------------------------	---	---------

N323RF Piper PA-32R-301T S/N: 3257201
 06/26/2009 Hobbs: 949.4 Eng TT:987.8 TSMOH: 89.9

Completed an oil change for the engine break in. Drained mineral oil from engine and oil cooler. Removed oil filter. Installed new Champion CH 48110-1 oil filter. Removed cleaned inspected and reinstalled the oil Sump finger screen. Completed a detailed visual inspection on the engine. Serviced engine with 11 qts of Aero Shell 15W50 oil. Run engine for work performed with no discrepancies noted.

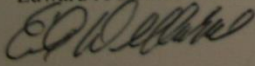
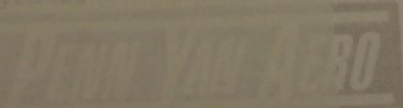
Edward A Dellarco A&P 174363424.



N323RF Piper PA-32R-301T S/N: 3257201
 09/18/2009 Hobbs: 983.5 TTENG: 1021.9 TSMOH: 124.0

Completed an oil change on the engine. Drained oil, drained oil cooler, Removed oil filter. Removed, inspected, cleaned, tested spark plugs. Removed, inspected, cleaned, reinstalled all fuel nozzles. Replaced #5 Bottom spark plug. Completed a compression check with the following Results. #1 76/80, #2 75/80, #3 76/80, #4 76/80, #5 76/80, #6 76/80. Bore Scoped #2 cylinder. Installed new Champion CH48110-1 oil filter. Checked Points clearance in both magnetos. Serviced engine with 11 qts of Aero Shell 15W50 oil. Run engine for work performed. Reset Idle to 600 rpm. Completed an idle mixture check. Reset idle mixture 7 clicks Lean. Second idle mixture check RPM rose 40 RPM. Left it there for time Being. Swapped #2 CHT to #4 and #4 CHT to #2 for troubleshooting. Dressed prop blades as required. Test flew aircraft for work performed with no discrepancies noted.

Edward A Dellarco A&P 174363424

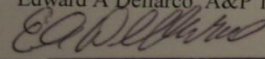



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 7
------	-----------------------	---------------------------	------------------------------	---	---------

N323RF Piper PA-32R-301T S/N 3257201\
 11/05/2009 Hobbs: 1011.8 Lycoming TIO-540-AH1A
 S/N L-10773-61A

Completed a **30 hour oil and filter change** IAW Lycoming TIO-540-AH1A maintenance/service manuals and Piper PA-32R-301T maintenance/Service Manuals. Drained oil removed oil filter. Completed a detailed visual inspection on the engine. Installed new Champion CH48110-1 oil filter. Lubed all engine controls. Re crimped EGT terminals. Serviced engine with 11qts of Aero Shell 15W50 oil.

I certify that this **Engine** has had a **30 hour oil change**, was inspected Accordingly and found to be in airworthy condition at this time.

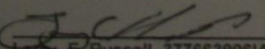
Edward A Dellarco, A&P 174363424


BARTELT AVIATION, INC.
 1301 WEST LAFAYETTE STURGIS, MI 49091



Engine Log Date: December 9, 2009

N323RF PA-32R-301T Serial No. 3257201
 TIO-540-AH1A S/N L-10773-61A
 Engine Total Hours: 1026.4 SMOH: 128.5 Aircraft Hobbs: 1026.4
 Performed cylinder compression test, all readings 76/80 or higher. Torqued intake Pipe hardware. Removed, cleaned, and inspected Fuel Inlet Fitting at Flow Divider (Fuel stains noted prior to removal). Reinstalled fitting and Fuel Line Flex Hose per mfg. Rerouted #1 & #3 CHT Probe Harness. Adjusted Idle Mixture and Idle RPM per maintenance manual. Performed ground run-up, no leaks noted. END.


 Larry E. Russell 3776639961A
 Bartelt Aviation, Inc. (269)-651-5431

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 8
------	-----------------------	---------------------------	------------------------------	---	---------



www.maydayavionics.com

5340 44th St., Garrettsville, OH 43024-1001 (614) 652-4920

DATE	12-1-09	S.O.	49799
MAKE	Piper	N#	N323RF
MODEL	PA-32R-301T	S/N	3257201
HOBBS	1025.6		

Installed Main Software Version 3.30 and GPS Software Version 3.2 to the Garmin GNS 530W, S/N 78400854 and GNS 430W, S/N 97120528 in accordance with the Garmin Service Bulletin No.: 0918, Rev A.

All items were ground checked in accordance with their respective manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment. The above work was performed in accordance with current FAA regulations and in respect to work performed on the aircraft identified above is approved for return to service.

Jeff Young
FOR FAA CRS YXR387Y

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 9
------	-----------------------	---------------------------	------------------------------	---	---------

N323RF Piper PA-32R-301T S/N: 3257201 Eng Lycoming S/N:L-10773-61A
 04/30/2010 Tach:1083.7 Eng TT:185.8 TSMOH: 185.8

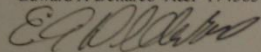
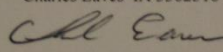
Completed an **Annual Inspection** on this **Engine** IAW Piper PA-32R-301T Maintenance/Service manuals and Lycoming TIO-540 series maintenance/service instructions/shop manual. Completed a compression check with the following results.

#1-80/78, #2-80/78, #3-80/78, #4-80/79, #5-80/78, #6-80/78. Removed, cleaned, inspected, gapped and tested spark plugs. Removed, cleaned, inspected fuel nozzles. Checked magneto timing as required. Checked magneto point's clearance and distributor blocks as required. Completed a detailed visual inspection on the engine, exhaust, turbo charger and engine mount. Lubed all engine controls and waste gate. Oil was not due for change at this time. All applicable ADs were complied with during engine overhaul on 04/03/2009. **Completed a current AD research.** No new ADs found at this time.

I certify that this **Engine** was inspected IAW an **Annual Inspection** and was determined to be in airworthy condition at this time. Engine is approved for return to service.

Edward A Dellarco A&P 174363424

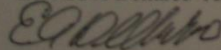
Charles Eaves IA 3302516

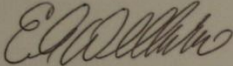
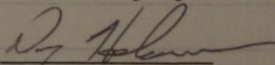
N323RF Piper PA-32R-301T S/N: 3257201 Eng Lycoming S/N: L10773-61A
 05/17/2010 Hobbs: 1104.6 TT ENG: 206.7 TSMOH: 206.7

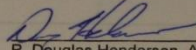
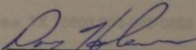
Completed an oil change on this engine. Drained oil, removed oil filter. Completed a detailed visual inspection on the engine, turbo charger, and exhaust. Installed a new Champion CH48110-1 oil filter. Serviced engine with 10qts of Aero Shell 15W50 oil. Repositioned nozzle on propeller TKS de-ice system. All work accomplished IAW Piper PA-32R-301T maintenance/service manual, and Lycoming 540 shop manual. Aircraft approved for return to service.

Edward A Dellarco A&P 174363424


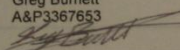


PENN AERO

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 10
				<p>N323RF Piper PA-32R-301T S/N 3257201 Eng Lycoming S/N: L10773-61A 06/18/2010 Hobbs:1134.6 TT ENG: 236.7 TSMOH: 236.7</p> <p>Completed an oil change on this engine. Drained oil, removed oil filter. Completed a Detailed visual inspection on the engine, turbo charger, and exhaust. Installed new Champion CH48110-1 oil filter. Serviced engine with 10 qts of Aero Shell 15W50 oil. Re torque rocker cover screws as needed. All work accomplished IAW PA-32R-301T Maintenance/service manuals and Lycoming 540 shop manual.</p> <p>Edward A Dellarco A&P 174363424</p> 	
				<p>Piper Saratoga II TC, PA-32R-301T, 3257201, N323RF Hobbs: 1165 Date: 08/18/2010 Engine Lycoming TIO 540 AH1A S/N L-10773-61A TSMOH: 305.5</p> <p>-Drained oil, removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 12 quarts Aeroshell 15W50. Inspected oil filter for metal. None found Sent oil sample to AOA services sample normal with slight high copper. Resample next oil change. Removed 6 Textron Lycoming fuel nozzles P/N LW18855 and installed General Aviation Modifications, Inc. turboGAMIjector kit No. GLVT20 S/N 20085 STC No. SE09445SC per turboGAMIjector installation procedure, No. IP-98-002 dated 9/11/1998. No change in weight and balance. No change in inspection for continued airworthiness. GAMI inc recommends cleaning at regular intervals 100 to 200 hours of operation. This installation does not affect any other installation on this aircraft. See FAA Form 337 dated 8/18/2010. Engine ground run up normal.</p>  <p>R. Douglas Henderson A & P 3415810</p>	
Totals - Carry Forward					

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 11
				<p><i>Balance Forward</i></p> <p>Piper Saratoga II TC, PA-32R-301T, 3257201, N323RF Hobbs: 1203 Date: 10/23/2010 Engine Lycoming TIO 540 AH1A S/N L-10773-61A TSMOH: 343.5</p> <p>-Drained oil, removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 12 quarts Aeroshell 15W50. Inspected oil filter for metal. None found Sent oil sample to AOA services sample normal. Resample next oil change. Engine ground run up normal.</p> <p> R. Douglas Henderson A & P 3415810</p>	
				<p>Piper Saratoga II TC, PA-32R-301T, 3257201, N323RF Hobbs: 1233 Date: 01/25/2011 Engine Lycoming TIO 540 AH1A S/N L-10773-61A TSMOH: 373.5</p> <p>-Drained oil, removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 12 quarts Aeroshell 15W50. Inspected oil filter for metal. None found Sent oil sample to AOA services sample normal. Resample next oil change. Replaced six each rocker cover gaskets with new p/n RG-67193 Replaced #1 upper spark plug with new URHB32E Engine ground run up normal.</p> <p> R. Douglas Henderson A & P 3415810</p>	
				<p>Aerosmith Aviation Longview, TX 75603 903-643-0898</p>	
Totals - Carry Forward					



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				<p>Bal </p> <p style="text-align: center;">GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> <p>N323RF 5-12-11 HR. MTR.: 1253.5 SMOH: 355.6 TTE: 1253.5</p> <p>Engine times above changed to reflect actual times from original overhaul entry. Completed a 100-hour inspection in accordance with Piper PA-32R-301T checksheet. Oil and filter changed. 12 quarts Aeroshell 15W50 and CH48110-1 filter. S.O.A.P. sample taken. Filter opened and suction screen checked. No contamination noted. Complied with AD2008-14-07 inspected fuel lines and clamps for conformity, satisfactory. AD2009-02-03 found PCW at overhaul. Complied with AD84-26-02 by replacement of paper induction air filter. Next due 1753.5. Added spiral wrap around mixture control cable to prevent chafing on engine mount. Replaced ground terminal of oil temp bulb. SB040A on turbo housing is N/A due to foundry mark. AD2010-13-07C found PCW as riveted V-band clamp already installed. Complied with AD2005-12-06 by visual and dimensional inspection of impulse couplings; satisfactory. Compressions checked 78-74-76-76-78-76/80. Cleaned fuel injectors and fuel screens. Run-up and leak check good. Greg Burnett A&P3367653 </p>
2-21-12	1408.5	510.6	1408.5	<p>REMOVED FUEL INJECTOR SERVO S/N 70225307 FOR OVERHAUL BY D & G SUPPLY (REF WR# 22968). REINSTALLED AND FUNCTION TESTED O.K. FOR RETURN TO SERVICE. <i>Pennie Kramer 2809646 A&P</i></p>
Totals - Carry Forward				

COPYRIGHT © 2001 PENN VAN AERO. ALL RIGHTS RESERVED.



03-15-12	1411.2	513.3	1411.2	

Balance Forward

FAA - PMA

This tag certifies that Sky-Tec Model No. **149-24PM**
 Serial No. **F4P-041203** was manufactured new on 07 Feb 2012
 by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement
 No. **1** per CFR14 Part 21 in accordance with Sky-Tec's
 FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and
 conforms to the relevant FAA-approved drawings. This part has been
 determined to be airworthy.
 For installation eligibility see www.skytecar.com/eligibility.html
 Starter installed on **N 323RF** by Dave Baker
 (Aircraft) (Mechanic) 2804926
 ACP

8-15-11	N323RF	PA32R-301T
Hobbs: 1291.8	Total: 1291.8	S/N: 3257201
Installed serviceable battery.		
Gary W. Shelton A&P5248085801A <u>Gary W. Shelton</u>		

9-14-11	N323RF	PA32R-301T
Hobbs: 1307.2	Total: 1307.2	S/N: 3257201
Changed oil and filter P/N CH48110-1. Serviced with 11 qts. Aeroshell 15W50.		
Gary W. Shelton A&P5248085801A <u>Gary W. Shelton</u>		

11-2-11	N323RF	PA32R-301T
Hobbs: 1349.8	Total: 1349.8	S/N: 3257201
Changed oil and filter P/N CH48110-1. Serviced with 11 qts. Aeroshell 15W50. No leaks on runup.		
Gary W. Shelton A&P5248085801A <u>Gary W. Shelton</u>		



Date	Total Time In Service	Total Time Since Overhaul	Time or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
June 22, 2016	1521.7	623.8	1521.7	Balance Forward
				<p>✓w ANNUAL INSPECTION of ENG. Checked compression #1. $73/100$ #2. $73/100$ #3. $74/100$ #4. $75/100$ #5. $75/100$ #6. $75/100$. Changed oil and filter. Serviced eng. with 1 qt. Aeroshell 15W50 and CH4B110 filter. Installed all new RHB 32E spark plugs. Cut old oil filter open and checked for metal, no metal. ✓w A.D. 11-26-04, Inspected fuel injector lines and support clamps next due at hobs 1621.7 or when lines are disturbed. Inspected overall condition of eng. and accessories per Piper Service and MAINT. MANUAL for PA-32R-301T, ENG. Found to be in airworthy condition.</p> <p>DATE 06-22-16 T.T. IN SERVICE 1521.7 A.D.'S CHECKED THRU 12-11 I CERTIFY THAT THIS ENG. HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <u>David Bohans</u> NUMBER: <u>2805926 EFA</u></p>
Totals - Carry Forward				

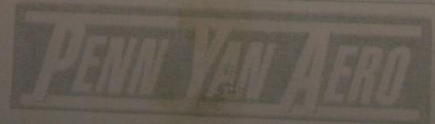


<p>Engine Log</p> <p>Date: 4/7/2014 Aircraft: N323RF Aircraft Model: PA-32R-301T Aircraft S/N: 3257201 Engine Model: TIO-540-AH1A Engine S/N: L-10773-61A Prop Model: HC-13YR-1RF Prop S/N: HK663B</p>	<p>American Patrols, Inc. 10306 S County Rd 1210 Midland, TX 79706 432-680-5088</p> <p>Tach: 1748.5 TTAF: 1748.5 Engine TTSN: 1748.5 Engine TSMOH: 850.6 Prop TTSN: 1748.5 Prop TSO: 902.5</p>	<p>Completed Annual inspection I/A/W FAR 43.15 appendix D .Started engine operated at manufactures recommended parameters ops check good Removed engine cowlings . Drained oil , removed and cut inspected filter ,serviced with 12 quarts aeroshell Oil W15W-50 replaced CH48103-1 oil filter with new engine compressions as follows # 1) 74/80 , # 2) 72/80 , #3) 74/80 , # 4) 78/80 , # 5)76/80 , # 6) 78/80. A detailed visual inspection of engine and engine accessories was completed All applicable AD's complied with No new Ad's found at this time .Checked AD's through issue 2014-06 . Complied with AD 2011-26-04 Lycoming fuel injector lines per Lycoming MSB 342f. Removed A/C compressor PN # 100821-003 installed rebuilt A/C compressor PN # 100821-003 SN # 5040507080 OPS check good .I certify this Engine has been inspected I/A/W an Annual Inspection and was determined to be in Airworthy condition.</p> <p>Signature: <u>Dave Brown AP 369 8964IA</u></p>
--	--	---

DEER HORN AVIATION, LTD.
 N323RF Piper PA32R-301T S/N: 3257201 Acft HM: 1877.8 Acft TT: 1877.8
 Lycoming TIO-540-AH1A S/N: L-10773-61A Engine TT: 1877.8 Engine TSO: 0979.9

1. Complied with 100 hr. Inspection IAW FAR 43 appendix D. Compressions are as follows: #1 76/80, #2 70/80, #3 76/80, #4 72/80, #5 78/80, #6 77/80.
2. Drained and Serviced oil with 12 qts. Aeroshell 15-W50, Removed and cut open oil filter, no abnormal debris found, installed new CH48110-1 oil filter, leak checked good.
3. Cleaned, inspected and rotated spark plugs.
4. Replaced #3 Cyl rocker cover gasket.

I Certify that this engine has been inspected IAW an 100hr. inspection and was determined to be in an airworthy condition. Pertinent details of the work accomplished on this aircraft are on file at this agency under work order number Omniaero07.
 Jared L. Anderson Jared L. Anderson AP/IA 3159154



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				<i>Balance Forward</i>
				<div data-bbox="745 446 1564 665" style="border: 1px solid black; padding: 5px;"> <p>Dallas Executive Aircraft Service, LLC Phone: 214-558-1238 Email: shaverinchad@gmail.com</p> <p>Aircraft: N323RF Model: TSIO-540AH1A S/N: 3257201 S/N: L-10773-61A Engine log</p> <p>Hobbs: 1845.5</p> <p>Removed and replaced both left and right magnetos with customer supplied. Removed left magneto P/N 6361, S/N 11080343 and installed inspected P/N 6361, S/N 08091873. Removed right magneto P/N 6360, S/N 11091742 and installed inspected P/N 6360, S/N 0080408 ran engine and magnetos leak and operational check good. Mark Curless 7/9/14 A&P 424828181</p> <p style="text-align: right;"><i>Mark W. Bentch</i></p> </div>
				<p>N323RF Engine Hobbs 1918.4 <i>2/23/15</i></p> <p>Oil change this date. Remove top cowl, Drain oil, sample taken. Remove oil filter cut open and inspect no metal found. Install new CH48110 filter torque and safety wire. Add 10 qts of Aeroshell 15W-50 Oil. Wash engine down. Install cowl, ground run made no leaks found. Mark W. Bentch AP34337181A</p> <p style="text-align: right;"><i>Mark W. Bentch</i></p>
				Totals - Carry Forward

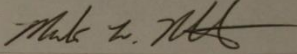


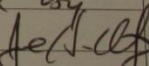
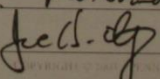
Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work	Page: 20
				N323RF Engine 5/11/15 Hobbs 1932.0 TT Engine 1932.0 SMOH 1034.1	
				100 HR inspection this date IAW FAR Part 43 Appendix D. Remove Cowl, Oil change PCW, Compression 1. 75/80 2. 72/80 3. 75/80 4. 74/80 5. 77/80 6. 70/80 Check Magneto timing. Clean and gape plugs reinstall and torque. Replace push tube gaskets SL18661 and SL66732 on #3 cyl and on #5 exhaust side only. Install new rocker box cover gasket p/n APS-67193-S #3 cyl. C/W AD 11-26-04 Fuel injection lines by visual inspection IAW MSB 342 F next due 100 hrs at tach 2032.0 or when lines are disturbed. C/W AD 84-26-02 paper air filter Replace with new filter p/n P15-1936 (561-020) next due for replacement 500 hrs hobbs time 2432.0. Check fuel system for leaks none found ground run made operation normal no leaks found reinstall cowl. I certify that this engine has been inspected in accordance with a 100 hr inspection and was determined to be in airworthy condition. Mark W. Bentch AP 3433718IA <i>Mark W. Bentch</i>	
				N323RF Engine Hobbs 1948.2 8/8/15, Remove old vacuum pump, install new vacuum pump Model AA3215CC serial # 096122. Install new drive seal P/N SL- STD-208 new gaskets P/N 61183, and P/N 82-5013-B. Work preformed IAW Tempest installation instructions. Ground run made no leaks, operation normal. Mark W. Bentch AP3433718IA <i>Mark W. Bentch</i>	
8-21-15	1950.7	1052.8	1950.7	Performed oil change IAW service manual. Remove top + bottom cowl, drain oil, removed filter & cut open + inspect. No metal found. Install new CH48110-1 filter, torqued & safety wired. Add 10 qts Aeroshell 15W-50 oil. Installed 12 new Champion RH1B32E spark plugs & torqued to spec. Installed cowl/ron. No leaks found. By Pilot JOE HANN Hilly PPL # 3566143 <i>Joe Hann</i>	
				Totals - Carry Forward	



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed
				<p>B N323RF Engine 7/1/2016 hobbs 1999.3 Owner performed 1 hr test flight. Remove cowl inspect turbo and engine compartment for oil leaks none found Reinstall cowl. Mark W. Bentch AP 34337181A</p> <p style="text-align: right;"><i>Mark W. Bentch</i></p>
8-25-16	2017.5	1119.6	2017.5	<p>Performed oil change IAW service manual. Removed top + bottom cowl, drained oil, Mark W. Bentch AP34337181A removed + installed filter (new), cut open + inspect filter. No metal or contaminants. Filter was CH48110-1 Filled with 10 quarts Aeroshell 15W-50 oil. Torqued + safety wired filter Reinstalled cowls + ran leak test. NO LEAKS Found. Oil pressure normal. Performed by owner/pilot Joe H. Hilty PPL 3566143 <i>Joe H. Hilty</i></p>
5-24-17	2065.0	1,167.1	2065.0	<p>Performed oil change IAW service manual. Removed top + bottom cowl, drained oil, removed + reinstalled new oil filter, cut open + inspect used filter. No metal or contaminants. Filter CH48110-1 was safe-T wired + torqued. Filled w/ 12 quarts Aeroshell 15W-50 oil. Test ran, found no leaks. Reinstall cowls. Performed by owner/pilot Joe H. Hilty PPL 3566143 <i>Joe H. Hilty</i></p>
Totals - Carry Forward				



Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				B N323RF Engine 7/1/2016 hobbs 1999.3 Owner performed 1 hr test flight. Remove cowl inspect turbo and engine compartment for oil leaks none found Reinstall cowl. Mark W. Bentch AP 34337181A 

8-25-16	2017.5	1119.6	2017.5	Performed oil change IAW service manual. Removed top + bottom cowl, drained oil, Mark W. Bentch AP34337181A removed + installed filter (new), cut open + inspect filter. No metal or contaminants. Filter was CH48110-1 filled with 10 quarts Aeroshell 15W-50 oil. Torqued + safety wired filter. Reinstalled cowls + ran leak test. NO LEAKS Found. Oil pressure normal. Performed by owner/pilot Joe H. Hilty PPL 3566143 
5-24-17	2065.0	1,167.1	2065.0	Performed oil change IAW service manual. Removed top + bottom cowl, drained oil, removed + reinstalled new oil filter, cut open + inspect used filter. No metal or contaminants. Filter CH48110-1 was safety wired + torqued. Filled w/ 12 quarts Aeroshell 15W-50 oil. Test run, found no leaks. Reinstall cowls. Performed by owner/pilot Joe H. Hilty PPL 3566143 
Totals - Carry Forward				



