

N428RA

The Standard
ENGINE LOG



ASA-SE-2

ENGINE MODEL:
TIO540-SIAD
ENGINE S/N RL-3875-61A
REG NO 42BRA
WORK ORDER
5527-09-2011



HIGH PERFORMANCE AIRCRAFT, INC.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone 858-576-5000

DATE 1/9/2012
A/C TSN 3699 12
ENG TT 6235 76
TSMOH 675 76
TACH 3676 07

d Alterations
ate Number of
;pecific entries.)

Engine Entries

COMPLIED WITH AD 2011-26-04, DATED 1/25/2012 (TO PREVENT FAILURE OF THE FUEL INJECTOR FUEL LINES).
INSPECTED IAW PARA 1, NO DEFECTS NOTED, REINSPECT PER PARA (k) DUE EA 100 HOURS. PERFORMED AN
ANNUAL INSPECTION IN ACCORDANCE WITH FAR PART 43, APPENDIX D, USING CURRENT PIPER PA32RT-301T (LANCE
II) INSPECTION REPORT P/N 230-953 AS A GUIDE. ALL AD'S CHECKED THRU REV 2011-27, SEE ATTACHED LIST....
COMPLIED WITH AD 2009-02-03, DATED FEBRUARY 9, 2009 (TO PREVENT A LEAN RUNNING ENGINE, WHICH COULD
RESULT IN A SUBSTANTIAL LOSS OF ENGINE POWER AND SUBSTANTIAL, CNTD)-8130 FORM DATED 8/27/2008 SHOWS
COMPLIANCE WITH AD 2008-06-51. "G" IS STAMPED ON HEX PLUG. NO FURTHER ACTION REQUIRED... COMPLIED WITH
AD 2003-14-03, DATED 08/14/2003 (TO PREVENT ROTARY FUEL PUMP LEAKS) BY VERIFYING TORQUE ON PUMP RELIEF
VALVE ATTACHING SCREWS PER LYCOMING SB 529B, TORQUE WAS ABOVE 22 IN-LBS, INSPECT VISUALLY FOR LEAKS
EA 50 HOURS, NEXT DUE @ 3749.12 TTF... COMPLIED WITH AD 2011-15-10, DATED AUGUST 16, 2011 (TO CORRECT AN
AFS FUEL SERVO DIAPHRAGM)-N/A, FUEL SERVO NEVER SERVICED BY AFS. NO FURTHER ACTION REQUIRED...
COMPLIED WITH PIPER SB 1134 (SERVO METERED FUEL PRESSURE PORT LEAKAGE - PRECISION BULLETIN
PRS-105)-N/A BY FUEL INJECTOR SERIAL NUMBER (84901)... REPLACED STARTER P/N MZ-6222, S/N C032001, WITH P/N
149NL, S/N FN-251198. ENGINE CRANKS NORMALLY AT THIS TIME... REPLACED OIL CARRYING LINE BETWEEN TURBO
INLET TO ENGINE CASE... REPLACED ALL FLUID CARRYING HOSES (AVIALL ORDER #11674902, 117777719) IN ENGINE
COMPARTMENT WITH NO LEAKS NOTED AFTER ENGINE RUN.... PERFORMED DIFFERENTIAL COMPRESSION CHECK
USING .060 ORIFICE TESTER PER AC 43.13-1B, PARA 8-14(b): 1) 78/80 2) 79/80 3) 78/80 4) 79/80 5) 79/80 6) 79/80
CHECKED MAG TIMING, CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS, CLEANED FUEL
INJECTORS, CLEANED FUEL INJECTION SERVO SCREEN... REMOVED, CLEANED, INSPECTED AND REINSTALLED ALL
FUEL INJECTORS... DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E, CUT OPEN
AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND.
REPLACED OIL FILTER WITH ONE EA CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE
20W50 OIL. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 5527-09-2011
Dated

DATE: 1/9/2012

SIGNED:

Work Order: 5527-09-2011

Dan Saizman
Certified Repair Station No. HPFR569X

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YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
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Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Engine Log Entry

Lycoming TIO-540-S1AD

TACH 3741.48 SMOH 741.17

N428RA

September 10th, 2012

S/N RL-3875-61A

1. Troubleshoot inoperative EGT indication on #5 cylinder. Removed and replaced EGT probe p/n M111. Ran engine and found operations normal.




Ruben Piranian A&P 2176536

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Engine Log Entry

Lycoming TIO-540-S1AD

TACH 3754.19 TSMOH 753.88


N428RA

February 8th, 2013

S/N RL-3875-61A

1. Performed annual inspection I.A.W. Piper Lance II inspection checklist.
2. Changed oil and oil filter with 10 qts Exxon Elite 20W50 and Champion CH48103-1 filter.
3. Engine compression: #1: 74/80 #2: 75/80 #3: 76/80 #4: 73/80 #5: 76/80 #6: 74/80
4. Replaced air filter p/n BA-7
5. Complied with AD 91-21-01 R1 by inspection IAW paragraph (2) of this AD & SB's 484, 499A. Next inspection due at intervals not to exceed 100 hours TIS (TACH 3854.19).
6. Complied with AD 11-26-04 by inspection. Next due thereafter, inspect at intervals of 100 hours TIS (not to exceed 110 hours), at each engine overhaul, and after any maintenance has been done on the engine where any clamp (or clamps) on a fuel injector line (or lines) has been disconnected, moved, loosened, IAW paragraph (i) of this AD.
7. All applicable engine A.D.'s have been complied with through 12-24-09

I certify that this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition.


 Ruben Piranian A&P 2176536 I.A.

YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Engine Log Entry

Lycoming TIO-540-S1AD

TACH 3784.14 TSMOH 783.83

N428RA

December 18th, 2013

S/N RL-3875-61A

1. Changed oil and oil filter with 10 qts Exxon Elite 20W50 and Champion CH48103-1 filter IAW Piper PA32RT-300T service manual.



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Engine Log Entry

Lycoming TIO-540-S1AD

TACH 3787.82 TSMOH 787.51

TTENG 6347.51

N428RA

March 14th, 2014

S/N RL-3875-61A

1. Performed annual inspection I.A.W. Piper Lance II inspection checklist.
2. Deferred oil change. Previously accomplished on December 18th 2013. 3.68 hours on oil and filter.
3. Engine compression: #1: 78/80 #2: 76/80 #3: 77/80 #4: 76/80 #5: 78/80 #6: 78/80
4. Replaced air filter element p/n BA-7.
5. Complied with AD 03-14-03 by inspection IAW paragraph (b)(2) of this AD and S8 529B. Next inspection due at 50 hours TIS, or 6 months which ever occurs first.
6. All applicable engine A.D.'s have been complied with through 13-21-02.

I certify that this ENGINE has been inspected in accordance with an ANNUAL Inspection and has been determined to be in airworthy condition.



Michael Morrissey A&P 2682932 I.A.

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YEAR
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ntries.)

Engine Log Entry

N428RA

Lycoming TIO-540-S1AD S/N RL-3875-61A


April 21st, 2015

TACH 3809.02 TSMOH 808.71

TSN 6368.71

1. Performed 100 hour inspection IAW 14 CFR part 43 appendix D.
2. Deferred oil change. Previously accomplished on January 7th 2015. 3.18 hours on oil and filter.
3. Engine compression: #1: 74/80 #2: 74/80 #3: 76/80 #4: 74/80 #5: 74/80 #6: 74/80
4. Replaced air filter element p/n BA-7.
5. Removed magneto s/n C239804G and reinstalled after overhaul (see work order 40064 for further details) and for compliance with AD 2005-12-06. Inspection accomplished by CRS XB2R286L.
6. Removed and replaced (2) spark plugs with Champion RHB37E on #1 and #2 cylinders, bottom side.
7. Complied with AD 2003-14-03 by inspection IAW paragraph (b)(2) of this AD and SB 529B. Next inspection due at 50 hours TIS, or 6 months which ever occurs first.
8. Complied with AD 2011-26-04 by inspection. Repeat inspection at intervals of 100 hours TIS (not to exceed 110 hours), at each engine overhaul, and after any maintenance has been done on the engine where any clamp (or clamps) on the fuel injector line (or lines) has been disconnected, moved, loosened, IAW paragraph (i) of this AD.
9. All applicable engine airworthiness directives have been complied with through 2013-21-02. See AD compliance checklist for further details.

I certify that this ENGINE has been inspected in accordance with an 100 hour inspection and has been determined to be in airworthy condition.


John Clausen A&P 3440145 I.A.

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Engine Log Entry

N428RA


Lycoming TIO-540-51AD S/N RL-3875-61A

January 7th, 2015

TACH 3805.84 TSMOH 805.53

TTENG 6365.53

1. Changed oil and filter with 10 quarts of Exxon Elite 20W50 and Champion CH48103-1 oil filter.


Conrad Lohner A&P 1384926

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Engine Log Entry

Lycoming T10-540-S1AD S/N RL-3875-61A

TACH 3822.21 TSMOH 821.90

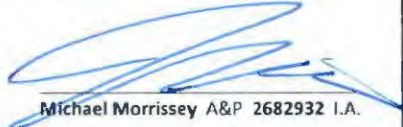
TSN 6381.90

N428RA

May 8th, 2016

1. Performed 100 hour/annual inspection IAW 14 CFR part 43 appendix D.
2. Drained oil and removed filter. Installed Champion CH48103-1 filter and serviced with 10 quarts of Exxon Elite 20W50 oil. Sent oil for analysis.
3. Engine compression: #1: 72/80 #2: 71/80 #3: 75/80 #4: 74/80 #5: 75/80 #6: 75/80
4. Replaced air filter element p/n BA-7.
5. Exhaust flange gaskets worn, removed exhaust and replaced with (12) Lycoming gaskets p/n LW15619. Reinstalled exhaust with the following new hardware, (10) cylinder exhaust studs p/n SL31C-10, (18) lock washers p/n STD-475, (18) nut, plain, .3125-18 p/n STD-1410.
6. Removed and replaced magneto harness with Air Boss harness p/n 10-821615-20Y.
7. **AD 2015-10-06** not applicable due to engine model.
8. **AD 2015-02-07** not applicable due to engine model
9. Complied with **AD 2015-19-07** by inspection. Thereafter, re-inspect after any maintenance is done on the engine where any clamp on a fuel injector fuel line was disconnected, moved, or loosened, and within every 110 hours TIS and after each engine overhaul.
10. All applicable engine airworthiness directives have been complied with through 2015-19 07. See AD compliance checklist for further details.

I certify that this ENGINE has been inspected in accordance with an 100 hour/annual inspection and has been determined to be in airworthy condition.



Michael Morrissey A&P 2682932 I.A.

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Engine Log Entry

Lycoming TIO-540-51AD S/N RL-3875-61A

TACH 3830.58 TSMOH 830.27

TSN 6390.27

N428RA

May 26th, 2016

1. Engine monitor not indicating #1 cylinder EGT, removed probe to troubleshoot. Swapped #1 and #3 probes, ran engine and found indications normal.



Ruben Piranian A&P 2176536

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N428RA

Lycoming TIO-540-S1AD S/N RL-3875-61A

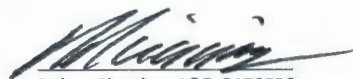
August 4th, 2017

TACH 3832.38 TSMOH 809.02

TSN 6369.02

1. Performed 100 hour/annual inspection IAW 14 CFR part 43 appendix D.
2. Drained oil and removed filter, installed Champion CH48103-1 filter and serviced with 10 quarts of Exxon Elite 20W50 oil.
3. Engine compression: #1: 78/80 #2: 78/80 #3: 77/80 #4: 75/80 #5: 75/80 #6: 77/80
4. Removed all (6) upper deck lines, inspected area, cleaned and replaced with new Parker Aerospace 193-3 hose (MIL-DTL-5593).
5. Removed fuel injectors, cleaned and installed with new injector o-rings p/n 951391.
6. Engine hours corrected. See equipment list for details.
7. Complied with **AD 91-21-01 R1** by inspection IAW paragraph (2) of this AD and IAW Lycoming SB's 484 & 499A. Next due at intervals not to exceed 100 hours time in service.
8. Complied with **AD 2015-19-07** by inspection. Thereafter, re-inspect after any maintenance is done on the engine where any clamp on a fuel injector fuel line was disconnected, moved, or loosened, and within every 110 hours TIS and after each engine overhaul.
9. **AD 2017-11-10** does not apply due to engine model number.
10. All applicable engine airworthiness directives have been complied with through 2017-11-10. See AD compliance checklist for further details.

I certify that this ENGINE has been inspected in accordance with an 100 hour inspection and has been determined to be in airworthy condition.



Ruben Piranian A&P 2176536

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Lycoming TIO-540-S1AD S/N RL-3875-61A

TACH 3832.38 TSMOH 809.02

TSN 6369.02

N428RA

August 4th, 2017

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



Bela Csonka A&P 3043872 I.A.

YEAR 20 _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Engine Log Entry

N428RA

Lycoming TIO-540-S1AD S/N RL-3875-61A

November 27th, 2018

TACH 3836.18 TSMOH 812.82

TSN 6372.82

1. Performed 100 hour inspection IAW 14 CFR part 43 appendix D.
2. Drained oil and removed filter, installed Champion CH48103-1 filter and serviced with 10 quarts of Exxon Elite 20W50 oil. Took oil sample and sent for analysis using AOA kit p/n 1151.
3. Engine compression: #1: 78/80 #2: 78/80 #3: 79/80 #4: 78/80 #5: 78/80 #6: 79/80
4. Removed and replaced starter with overhauled unit, same model and part number, Sky-Tec 149NL. Serial number H-S092260. No change in W&B. Installed IAW Hartzell NL installation instructions drawing no ST25001 rev. H. OPS check normal.
5. Complied with **AD 2015-19-07** by inspection. Thereafter, re-inspect after any maintenance is done on the engine where any clamp on a fuel injector fuel line was disconnected, moved, or loosened, and within every 110 hours TIS and after each engine overhaul.
6. **AD 2017-16-11** does not apply, engine serial & model numbers not listed in table 1 of MSB 632B and records do not indicate affected parts installed on engine from table 2 of MSB632B.
7. All applicable engine airworthiness directives have been complied with through 2017-16-11. See AD compliance checklist for further details.

I certify that this ENGINE has been inspected in accordance with an 100 hour inspection and has been determined to be in airworthy condition.


Ruben Piranian A&P 2176536

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Engine Log Entry

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Lycoming TIO-540-S1AD S/N RL-3875-61A

November 27th, 2018

TACH 3836.18 TSMOH 812.82

TSN 6372.82

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

Bela Csonka

Bela Csonka A&P 3043872 I.A.