

ENGINE LOG



N132LT
TIO-540-AE2A
L-13596-61A
Engine Logbook

NEW RECIPROCATING ENGINE CERTIFICATE

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

TIO-540-AE2A

L-13596-61A

MODEL _____

SERIAL NO. _____

DATE 12/30/10

[Signature]
(AUTHORIZED REPRESENTATIVE)

LYCOMING
A Textron Company

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

Form No. 777-B (Rev. 3/03)

1/3/11

652 Oliver Street

Williamsport, PA 17701 U.S.A.

Engine Model No: **TIO-540-AE2A**Engine SN: **L-13596-61A**

Page 1 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2002-19-03 552		CRANKSHAFT INSP. FOR LYC. 6 CYL. TURBO ENGINES CRANKSHAFT INSTALLED NOT AFFECTED BY THIS AD	N/A	X		1	3
2002-19-03 553		CRANKSHAFT INSP. FOR LYC. 6 CYL. TURBO ENGINES CRANKSHAFT INSTALLED NOT AFFECTED BY THIS AD	N/A	X		1	3
2004-05-24 554		CRANKSHAFT GEAR RETAINING BOLT REPLACEMENT. NEW BOLT P/N INSTALLED.	N/A	X		1	3
2004-10-14 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW P/N INSTALLED	N/A	X		1	3
2006-20-09 569	A	CRANKSHAFT REPLACEMENT REPLACE CRANKSHAFT	N/A	X		1	3
2008-14-07 342	E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS		X	1	3
2009-02-03 581		Inspection of Precision Airmotive Hex Plug in regulator cover New improved gasket P/N 2577258 installed	N/A	X		1	3
71-13-01 335		CRACKS & DENTS IN FUEL INJ NOZZLE TUBE ASSY 5/8 IN OR MORE USED IN ASSY.	N/A	X		1	3
73-23-01 367	F	INSP FOR CRACKS IN PISTON PINS INST NEW PARTS	N/A	X		1	3
75-09-15 382		BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS NEW P/N GASKET INSTALLED	N/A	X		1	3
78-23-10 428		BENDIX FUEL INJ. BULLETIN RS-42 NEW P/N INSTALLED	N/A	X		1	3
89-15-10 487		FUEL PUMP VENT RESTRICTION RESTRICTED TEE INSTALLED	N/A	X		1	3
91-10-04 491	A	INSPECTION OF EXHAUST TRANSITION BOLTS LW-31SS-1.19 BOLT INST @ 17#	N/A	X		1	3
92-12-05 501	B	LW-14077 PISTON PIN NEW PARTS INSTALLED	N/A	X		1	3
94-01-03 N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST.	N/A	X		1	3
94-06-09 517		INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS NEW CONF. CAPACITORS INSTALLED	N/A	X		1	3
97-15-11 527	C	RECALL OF PISTON PIN P/N LW-14077 NEW CONFIGURATION P/N INST.	N/A	X		1	3

Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable



AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2002-12-07 543	B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT NEW P/N CONVERTER PLATE INSTALLED	N/A	X		2	
2003-14-03 529	B	ROTARY FUEL PUMP TORQUE. NEW PUMP WITH "/M" SUFFIX INSTALLED	N/A		X	2	
2005-12-06 425	C	Inspection of impulse couplings and stop pins New snap ring configured magneto installed	as per AD		X	2	
2005-19-11 566		Crankshaft replacement Replace Crankshaft	N/A	X		2	
78-25-10 430		BENDIX FUEL INJ BULLETIN RS-54 NEW P/N INSTALLED	N/A	X		2	
79-04-05 433	A	BENDIX FUEL INJ. BULLETIN RS-57 NEW P/N INSTALLED	N/A	X		2	
80-17-10 448	A	TURBOCHARGER TRANSITION WASTE GATE ASSEMBLY NEW P/N LW-16858 INSTALLED	N/A	X		2	
81-12-06 459		BENDIX SERVICE BULLETIN #618 NEW CONF. PART INSTALLED	N/A	X		2	
83-22-04 467		BENDIX BULLETIN #RS-88 BENDIX INJ NOT INSTALLED	N/A	X		2	
84-19-03 N/A	R1	CRACKS IN VALVE SEAT OF CYLINDER ASSY. NEW P/N INSTALLED	N/A	X		2	
87-10-06 477	R1 A	INSPECTION AND REWORK OF LW-18790 ROCKER ARM ASSY NEW CONFIGURATION P/N INST.	N/A	X		2	
91-08-07 494		INSTALLATION OF RESTRICTED FUEL PUMP VENT FITTINGS INST. NEW RESTRICTED FITTING	N/A	X		2	
91-08-07 497		INSTALLATION OF RESTRICTED FUEL PUMP VENT FITTINGS INST. NEW RESTRICTED FITTING	N/A	X		2	
91-21-01 499	R1 B	INSTALLATION OF ONE-PIECE EXH. PIPE KIT NEW P/N EXHAUST PIPE INSTALLED	N/A	X		2	
95-07-01 N/A		CONNECTING ROD BOLT FAILURE LYCOMING PART INSTALLED	N/A	X		2	
95-26-02 398		ENGINES OPERATED WITH LOW OCTANE FUEL ENGINE IS NEW OR HAS BEEN REBUILT AT MANUFACTURER	N/A	X		2	
98-17-11 N/A		CRANKSHAFT REPAIRED BY NELSON BALANCING SERVICE MAG/PARTICLE INSP OF C/SHAFT	N/A	X		2	

Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable



OWNER

NAME	ADDRESS	Installed in Aircraft No.	Date
1		N 2400A	FEB 11 2011
2			
3			
4			
5			
6			

If this book is found, please return it to the owner.

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

EXXON ELITE 20W50

OIL AT THE PIPER FACTORY

Manufacturer: LYCOMING, WILLIAMSPORT, PA Serial No. L-13596-61A

Model: TIO-540-AE2A FAA T. C. No. E14EA

[illegible]

nance

Performed 50 Hour Inspection using Piper PA46-350P 1st 50 Hour Inspection report provided by Piper Aircraft, Inc.

Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil. Performed ground run. Operational and leak checks good.

Ground run and leak check completed in accordance with FAR 43.15 (c)(2), (i) through (iv) and was found to be satisfactory.

For Aviation Sales, Inc.
W.O. 16737


Michael A. Meyers, A&P 1840944

Total To Carry Forward				

Performed an Annual Inspection using the Piper PA46-350P checklist and FAR 43, Appendix D. Airworthiness Directive compliance checked through Revision 2011-16.

Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil. Performed compression check in accordance with Lycoming S.I. 1191A with results as follows:

#1 - 76/80; #2 - 74/80; #3 - 75/80; #4 - 74/80; #5 - 75/80; #6 - 75/80; minimum - 60/80.

Complied with 100 hour/annual exhaust V-band and coupling inspection. No defects noted.
Piper VSP 217 and Lycoming S.B. 598A. V-band clamp inspection, not applicable by engine manufacture date.

Complied with Piper S.B. 1012 and Lycoming S.B. 531, turbocharger and tailpipe inspection, per the service bulletin instructions.


Complied with Textron Lycoming A.D. 2008-14-07, fuel injector lines, by visual inspection per Lycoming S.B. 342F. No discrepancies noted. Next inspection due at Hobbs 211.6 or 8/12

A.D. 2011-13-03 and Piper VSP 207 and Lycoming S.B. 594, turbo housing inspection, not applicable by foundry markings.

Ground run and leak check completed in accordance with FAR 43.15 (c)(2), (i) through (iv) and was found to be satisfactory.

I certify that this engine has been inspected in accordance with a Annual Inspection and was determined to be in airworthy condition.

For Aviation Sales, Inc.
W. O. 16823


Gilbert C. Schoales, Jr. A&P19543741 IA

ENGINE LOG

ENGINE September 16, 2011 Hobbs: 123.8 **N2400A**
 Removed fuel servo for repair. (See FAA Form 8130-3 from Ametek B&S Aircraft Parts & Accessories dated 9/08/11 placed in the aircraft records.) Reinstalled fuel servo after repair. Performed ground run. Adjusted fuel mixture and idle speed per the manufacturer's specifications. Operational and leak checks good.

For Aviation Sales, Inc.
 W.O. 16848

Tom T. Mestas
 Tom T. Mestas, A&P 523940167

ENGINE December 23, 2011 Hobbs: 157.4 **N2400A**
 Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil. Performed ground run. Operational and leak checks good. Complied with Lycoming Special Advisory 56-500, coarse oil screen inspection. No contaminants noted. Leak check good. Removed starter Serial No. H-K111146 and replaced with new part Serial No. H-L080950. Operational check good.

For Tempus Aircraft Sales & Service, Inc.
 W.O. T17027

Gilbert C. Schoales, Jr.
 Gilbert C. Schoales, Jr. A&P 19543741

Total to
 Carry Forward

ENGINE March 30, 2012 Hours: 210.1 Total Time: 210.1 **N2400A**
 Performed an Annual Inspection using the Piper PA46-350P checklist and FAR 43, Appendix D. Airworthiness Directive compliance checked through Revision 2012-05.

Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil. Performed ground run. Operational and leak checks good. Performed compression check in accordance with Lycoming S.I. 1191A with results as follows: #1 - 74/80; #2 - 73/80; #3 - 74/80; #4 - 72/80; #5 - 76/80; #6 - 74/80; minimum - 60/80.

Complied with Textron Lycoming A.D. 2011-26-04, fuel injector lines, by visual inspection per Lycoming S.B. 342F. No discrepancies noted. Next inspection due at Hobbs 310.1 or 3/13.

Page 1 of 2

ENGINE (cont'd) March 30, 2012 **N2400A**
 Complied with Piper VSP 215 and Lycoming S.B.597, fuel drain valve inspection, by replacing fuel drain valve with a new part per the service bulletin instructions. Adjusted engine RPM per the manufacturer's specifications.

Removed all rocker box cover gaskets and replaced with new parts. Leak check good.

Ground run and leak check completed in accordance with FAR 43.15 (c)(2), (i) through (iv) and was found to be satisfactory.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

For Tempus Aircraft Sales & Service
 W. O. 17053

Tom Mestas
 Tom Mestas, A&P, 523940167 IA

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ENGINE LOG



ENGINE

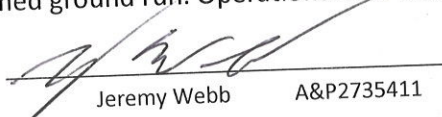
July 18, 2012
Engine Total Time:

N2400A

Hobbs: 261.5
Engine Total Cycles:

Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil. Performed ground run. Operational and leak checks good.

For Tempus Aircraft Sales & Service
WO# 1889


Jeremy Webb

A&P2735411

Total To Carry Forward				



ENGINE

February 19, 2013
Engine Total Time: 323.3

N2400A

Hobbs: 323.3
TSOH: N/A

Performed an **Annual Inspection** using the Piper PA46-350P checklist and FAR 43 Appendix D. Airworthiness Directive compliance checked through Revision 2013-02.

-Changed oil and filter. Cut filter open. No abnormal contaminants noted. Serviced with 11 quarts of Aeroshell SAE 15w50 oil.

-Perform compression check in accordance with Lycoming Service Instruction 1191A with results as follows:
#1-72/80, #2 72/80, #3 73/80, #4 73/80, #5 71/80, #6 71/80

Airworthiness Directives and Service Bulletins

-Complied with Lycoming AD 2011-26-04, Fuel Injector Line Inspection. No discrepancies noted.

-Complied with Piper AD2011-06-10 Turbine inlet temperature probe replacement, by installing new turbine inlet temperature probe. Serial Number off 1050, Serial Number on 1202. Operational check good.

-Complied with Lycoming Service Bulletin 531 Engine turbocharger inspection. No discrepancies noted.

-VSP 225 Lycoming Service Bulletin 603 Slick Magneto Points, is not applicable to engine and magneto serial numbers.

Engine Scheduled Maintenance and Inspections

-Complied with the 1 year/100 hour Fuel pump pressure operational check. No discrepancies noted.

-Complied with 100 hour/annual engine exhaust V band and coupling inspection. No discrepancies noted.


Engine Maintenance Actions

-Removed and replaced hoses and clamps on all six cylinder oil return lines. Leak check good.

Ground run and leak check completed in accordance with FAR 43.15 (c) (3) and was found to be satisfactory.

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

For Tempus Aircraft Sales & Service
WO# 2066


Gilbert C. Schoales, Jr. A&P3649531A

ENGINE LOG

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N2400A Lycoming TIO-540-AE2A S/N: L-13596-61A Engine Log Entry

16 September 2013 Hobbs Time: 399.7

Changed engine oil using (Shell 15W50). Cut oil filter open and inspected for foreign material - none found. Ground run up and leak check good.

Jeremy D. Trussell A&P 610051913 w/o 33570

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N2400A Lycoming TIO-540-AE2A S/N: L-13596-61A Engine Log Entry

29 January 2014 Hobbs Time: 453.0

Changed engine oil using (Shell 15W50). Cut oil filter open and inspected for foreign material - none found. Inspected breather tube - no defects noted. Ground run up and leak check good.

Nathaniel Alan Beuthel A&P 3659835 w/o 34026

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N2400A Lycoming TIO-540-AE2A S/N: L-13596-61A Total Time: 475.7

7 May 2014 Hobbs:

Complied with Lycoming AD 2011-26-04 (fuel injection lines) by visual inspection per Lycoming SB 342G, no defects noted. Lycoming AD 2012-03-06 (Avstar fuel system) N/A no record of installation of AFS diaphragm per Ametek B&S work order R11-04703 dated Sept. 8, 2011. Lycoming AD 2012-19-01 (crankshaft) N/A by engine serial number. Ground run up and operational check good.

Scott S. Fisher A&P3290363 w/o 34250

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N L-12596-61A
REG NO N2400A
WORK ORDER P1663



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone 801-933-7500

DATE: 6/4/2014
AVC TSN: 479.4
ENG TT: 479.4
TACH

Engine Entries

- (3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D USING THE PIPER PA46-350P INSPECTION CHECKLIST 05-20-00 AS A REFERENCE AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.
- (4) ENGINE COMPRESSION CHECK C/W. COMPRESSIONS AS FOLLOWS: CYL # 1 80/80, # 2 79/80, # 3 79/80, # 4 79/80, # 5 78/80, # 6 78/80. CHECKED SATISFACTORY.
- (5) ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS, NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48103-1 AND SAFETIED. REMOVED OIL SUMP SCREEN AND INSPECTED FOR CONTAMINANTS AND CLEANED, RE INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFETIED. SERVICED ENGINE WITH 12 QTS OF A/S 15W50. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.
- (18) RIGHT MAGNETO MODEL # 6360 S/N 10110025 AND LEFT MAGNETO MODEL # 6363 S/N 10080711 REMOVED AND SENT TO PRECISION AIR POWER CRS # QD5R141N WHERE UNDER THEIR W.O. 17912 DATED 06/02/14 PERFORMED 500 HOUR INSPECTION AND REPAIR. OPERATIONAL CHECKED SATISFACTORY. RE INSTALLED LEFT AND RIGHT MAGNETOS WITH TWO NEW GASKETS P/N LW-12681. REMOVAL AND INSTALLATION IAW PIPER PA-46-350P M.M. CHAP 74-10-00. OPERATIONAL AND LEAK CHECK SATISFACTORY.
- (32) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342G. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT HOBBS 579.4 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.
- (37) ALL ENGINE ROCKER BOX COVER NUTS TIGHTNED. LEAK CHECKED SATISFACTORY.
- (38) LEFT TURBO CHARGER FORWARD ATTACH BRACKET BOLT P/N LW-31SS0.88 INSTALLED IAW PIPER PA-46-350P M.M. CHAPTER 81-20-00.
- (40) EXHAUST CROSS OVER SHIELD ATTACH CLAMPS RETORQUED.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1663.

DATE: 6/4/2014

SIGNED:

Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1663

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9833 North Airport Road, Suite 101,
Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 529.1
Hobbs: 529.1

PAGE 1 of 4

Date:

5-15-15

1. PERFORMED ANNUAL INSPECTION REFERENCING MALIBU AEROSPACE ANNUAL INSPECTION CHECKLIST.
2. CW AD 2011-06-10 BY REPLACING TIT PROBE, NEXT DUE AT HOBBS: 779.1
3. CW AD 2011-26-04 FUEL INJECTOR LINE INSPECTION. REFERENCE LYCOMING SB 342G.
4. CW LYCOMING SERVICE BULLETIN 521 BY INSPECTING THE EXHAUST AS REQUIRED, NEXT DUE AT HOBBS: 779.1, FUNCTIONAL CHECK SATISFACTORY.
5. COMPLIED WITH LYCOMING SB 531 TURBOCHARGER AND TAILPIPE INSPECTION, NO DEFECTS NOTED.
6. COMPLIED WITH LYCOMING SB 480E, SECTION I AND II, BY INSPECTING & CLEANING OIL SUCTION SCREEN AND INSPECTING AND REPLACING OIL FILTER ELEMENT.
7. DRAINED OIL AND TOOK SAMPLE. REMOVED, INSPECTED AND REPLACED OIL FILTER. CW LYCOMING SB 489A OIL SUCTION SCREEN INSPECTION, NO DEFECTS NOTED. SERVICED ENGINE WITH 10 QTS OF EXXON ELITE 20W50 OIL. GROUND RUN UP AND LEAK-CHECK COMPLETED. NO DEFECTS NOTED.
8. REMOVED AND REPLACED OIL COOLER AFTER FLUSH.
9. PRESSURIZED & LEAK CHECKED INDUCTION SYSTEM.
10. REMOVED AND REPLACED TIT PROBE PN: 686-216, FUNCTIONAL CHECK SATISFACTORY.
11. COMPLIED WITH PIPER SL 1108 BY COMPARING MANIFOLD PRESSURE INDICATION TO BARO CORRECTED ALTITUDE. NO DEFECTS NOTED.
12. ENGINE COMPRESSIONS AS FOLLOWS; 1-75/80, 2-75/80, 3-74/80, 4-76/80, 5-76/80, 6-75/80.
13. RIGHT MAG 500 HOUR INSPECTION COMPLETED BY BOLDUC AVIATION, CRS KMSR993M UNDER WORK ORDER 28211 DATED 4/22/2015. INSTALLED AND TIMED MAG TO ENGINE.
14. CLEANED AND LUBED STARTER SHAFT.

Tc
Ct



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Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 529.1
Hobbs: 529.1

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Date:

15. REMOVED RH TURBOCHARGER AND REPLACED WITH OVERHAULED TURBOCHARGER PN: 46C49839, SN: H-NKL00083, TURBOCHARGER OVERHAULED BY MAIN TURBO SYSTEMS, INC FAA CERT# MAMR190K, REF MAIN TURBO WO# 49181, FUNCTIONAL CHECK SATISFACTORY.
16. CLEAN FUEL STAINS FROM FUEL FLOW DIVIDER FITTING #6 AND CHECK TORQUE ON FITTING. LEAK CHECK OK.
17. CLEANED, TIGHTENED AND PERFORMED LEAK CHECK OF FUEL LINE FITTING ON THE INLET SIDE OF PUMP, LEAK CHECK SATISFACTORY.
18. REATTACH GROUND WIRE TO LEFT MAG.
19. REINSTALLED SAFETY WIRE ON FUEL PRESSURE SWITCH CANNON PLUG BACKSHELL.
20. REPLACED BOOT ON RIGHT HAND ALTERNATOR TERMINAL.
21. SPIRAL WRAP WIRES FROM FUEL FLOW TRANSMITTER TO CPC.
22. REMOVED AND REPLACED AIR CONDITIONING COMPRESSOR BELT PN: 37B19774, ADJUSTED TENSION, FUNCTIONAL CHECK SATISFACTORY.
23. REMOVED AND REPLACED BOTH #1 AND #2 ALTERNATOR BELTS PN: 37A19773, ADJUSTED TENSION FUNCTIONAL CHECK SATISFACTORY.
24. INSTALLED BARREL NUT AND SCREW PN: 582-587 IN #2 CYLINDER TO BAFFLE ATTACH POINT, FUNCTIONAL CHECK SATISFACTORY.
25. STOP DRILL CRACK IN LEFT AFT BAFFLE.
26. ADJUSTED RIGGING OF ALTERNATE AIR DOOR AND TIGHTEN LOOSE HARDWARE.
27. REMOVED AND REPLACED RH ENGINE PRESSURIZATION DUCT PN: 566-339, FUNCTIONAL AND LEAK CHECK SATISFACTORY.
28. ADJUSTED LH MAGNETO TO CORRECT ENGINE TIMING, FUNCTIONAL CHECK SATISFACTORY.

ENGINE LOG

Granite Mountain Aviation, L.L.C
6543 Crystal Lane
Prescott, Arizona 86301
928-443-8509

Date: 5-18-15
Tach Time: 544.60
Total Time: 544.60
STOH: 15.50

Drained oil and replaced oil filter. Opened and inspected removed oil filter for contamination, none found. Serviced engine with 10 quarts of Aeroshell 80 mineral oil. Reconnected fuel pump cooling blast hose.

Thomas L. Town
36483611A

FirstXLine
AERO

A/C: N2400A S/N: 4636493 Hobbs: 556.7 Date: 05/20/2015

Drained oil and serviced w/11 QTS Philips XC20W50, removed and replaced oil filter P/N AA48103-2.

Ran engine, no leaks detected at this time. All work performed IAW PA46 MM.

James Stewart, A&P
A&P 3576016

Total To Carry Forward				
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DATE 06-04-15 LYCOMING TIO-540-AE2A, S/N TACH 577.9.
and Re Changed engine oil and filter utilizing 11 qts of Phillips XC 20W-50 and filter ES48103. No.

Approved for return to service,
for the work performed.
Lawson Aero, LLC - Afton, Wyoming

06-04-2015
Date
James W. Lawson
Mechanic
3034108
Certificate #

MALIBU
AEROSPACE

9833 North Airport Road, Suite 101,
Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 627.1
Hobbs: 627.1

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Date: 7/10/2015

1. REMOVED AND REPLACED TIT PROBE PN: 686-216, FUNCTIONAL CHECK SATISFACTORY.
2. DRAINED ENGINE OIL AND TOOK SAMPLE. REMOVED SPIN ON OIL FILTER, CUT OPEN AND INSPECTED. NO DEFECTS NOTED. INSTALLED NEW FILTER P/N CH48103-1. REMOVED, INSPECTED AND CLEANED SUCTION SCREEN WITH NO DEFECTS NOTED. LUBED WASTEGATE AND CLEANED BREATHER TUBE. SERVICED ENGINE WITH 10 QUARTS 20W50 EXXON ELITE PERFORMED ENGINE RUN UP AND LEAK CHECK.

Wilder Morey License: A&P 3464563 IA

MALIBU
AEROSPACE

9833 North Airport Road, Suite 101,
Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

OUT OF
ORDER

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 529.1
Hobbs: 529.1

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Date:

29. REMOVED AND REPLACED HARDWARE SECURING EXHAUST CROSSOVER HEAT SHIELD PN: MS35276-261, REMOVED AND REPLACED 2EA CLAMPS SECURING HEAT SHIELD TO CROSSOVER PIPE PN: LW-15592, FUNCTIONAL CHECK SATISFACTORY.
30. REMOVED AND REINSTALLED LH FORWARD TRANSITION V-BAND CLAMP TO ENSURE PROPER INSTALLATION, FUNCTIONAL CHECK SATISFACTORY.
31. REMOVED AND REPLACED UPPER WASTEGATE V-BAND CLAMP PN: LW-12093-6 AND UPPER WASTEGATE GASKET PN: 75845, FUNCTIONAL AND LEAK CHECK SATISFACTORY.
- 32.
33. ADJUSTED THROTTLE RIGGING TO ENSURE A 0.20" GAP AT FUEL SERVO STOP AS VAPC STOP IS MADE.
34. REMOVED LH TURBOCHARGER AND REPLACED WITH OVERHAULED TURBOCHARGER PN: 46C19839, SN: H-NLL00102, TURBOCHARGER OVERHAULED BY MAIN TURBO SYSTEMS INC FAA CERT# MAMR190K, REF MAIN TURBO WO# 49182, FUNCTIONAL CHECK SATISFACTORY.
35. REMOVED WASTEGATE AND INSTALLED OVERHAULED WASTEGATE PN: 470954-0007, SN: NEN00265, WASTEGATE OVERHAULED BY MAIN TURBO SYSTEMS, INC FAA CERT# MAMR190K, REF MAIN TURBO WO# 49183, FUNCTIONAL CHECK SATISFACTORY.
36. REMOVE PROPELLER, REPLACE CRANKSHAFT SEAL, CLEAN SLIP RING AND FRONT OF ENGINE OF OIL, AND REINSTALL PROPELLER.
37. REMOVED 6EA CYLINDER ASSEMBLIES AND SENT FOR OVERHAUL TO BOLDUC AVIATION SERVICES FAA CERT #KM5R993M, REINSTALLED 6EA CYLINDERS OVERHAULED BY BOLDUC AVIATION SERVICES, INSTALLED CYLINDERS WITH OVERHAULED EXHAUST BY AEROSPACE WELDING FAA CERT# UWDR792L AS FOLLOWS; ADAPTER CYLINDERS #1, #4 AND #5, CYLINDER #2 RISER, CYLINDER #4 RISER, LH EXHAUST TRANSITION, ADAPTER TRANSITION, CYLINDER #1 RISER, AND CYLINDER #1, #4 AND #5 ADAPTER, INSTALLED USING SEAL KIT PROVIDED BY BOLDUC AVIATION SERVICES, FUNCTIONAL AND LEAK CHECK SATISFACTORY.

MALIBU
AEROSPACE

9833 North Airport Road, Suite 101,
Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

OUT OF ORDER

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 529.1
Hobbs: 529.1

PAGE 4 of 4

Date:

38. APPLIED SILICONE TO ENGINE BAFFLES AS NECESSARY IN ORDER TO PROMOTE BETTER ENGINE COOLING.
39. ADJUSTED MANIFOLD PRESSURE TO 42 INHG AT STATIC RPM, AND ADJUSTED IDLE MIXTURE IAW PIPER MIRAGE MAINTENANCE MANUAL, FUNCTIONAL CHECK SATISFACTORY.
40. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Wilder Morey A+P 348563 IA

MALIBU
AEROSPACE

9833 North Airport Road, Suite 101,
Minneapolis, MN 55449
877-662-5428 malibuaerospace.com

Registration: N2400A
Engine Model: TIO-540-AE2A
Engine Serial: I-13596-61a
Engine Time: 529.1
Hobbs: 529.1

PAGE 1 of 1

Date: 5/15/2015

1. INSTALLED MALIBU AEROSPACE M1 COOLING KIT IN ACCORDANCE WITH STC SA1896CH, SEE 337 DATED 9/8/14 FOR FURTHER INFORMATION.

Wilder Morey License: A&P 3464563 IA

SA1896CH



Experience the Skytech-Advantage

OUT OF ORDER

200 Airport Dr. Westminster, MD 21157
Phone: (410) 574-4144 / Fax: (410) 848-6451

Engine Log Entry	Hobbs: 597.7	Registration #: N2400A
Date: June 18, 2015	Total Time:	Make/Model: TIO-540-AE2A
W/O: DMW-102344	Cycles:	S/N: L-13596-61A

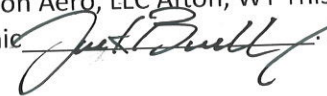
- Drained oil and took sample. Removed and cut open oil filter - NDN. Removed oil sump suction screen from engine, cleaned, and inspected - NDN. Installed new oil filter p/n CH48-103-1. Serviced engine with 11 quarts of Exxon Elite 20W-50. Ran engine - leak check satisfactory. Oil filter/screen content inspection performed per Lycoming SB 480E.

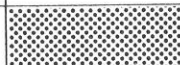
MAINTENANCE RELEASE

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service with respect to the work performed. Pertinent details of the repair are on file at this agency under Work Order No: DMW-102344

Signed:  for Skytech, Inc. 200 Airport Dr. Westminster, MD 21157.

CRS# LF1R294K

DATE 07-24-15 N2400A, LYCOMING TSIO-540-AE2A, S/N 13596-61A, TACH 646.7
Changed engine oil and filter utilizing 11 qts of Exxon Elite 20W-50 and filter AA48103, cut open old filter no contaminants found. Lawson Aero, LLC Afton, WY This aircraft is approved for return to service for the work performed. Mechanic  A&P/IA 2827868

Total To Carry Forward				
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Granite Mountain Aviation, L.L.C
6543 Crystal Lane
Prescott, Arizona 86301
928-443-8509

Date: 8-26-15
Tach Time: 684.80
Total Time: 684.80

Complied with 25 hour inspection. Drain oil and replaced oil filter. Opened and inspected removed oil filter. Serviced engine with 10 quarts of Exxon Elite 20W50 oil. Run up and leak check ok all functions normal.

Thomas L. Town
36483611A

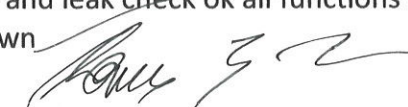


Granite Mountain Aviation, L.L.C
6543 Crystal Lane
Prescott, Arizona 86301
928-443-8509

Date: 9-2-15
Tach Time: 694.50
Total Time: 694.50

Removed cowling and propeller to facilitate replacement of the crankshaft seal. Removed crankshaft seal, cleaned area and installed new crankshaft seal. Reinstalled propeller and cowling. Run up and leak check ok all functions normal.

Thomas L. Town
36483611A



ENGINE LOG

DATE 5-9-16 N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 850.7 STOH 321.6

Compression #1. 80/77 #2. 80/74 #3. 80/77 #4. 80/77 #5. 80/77 #6. 80/76.
Changed engine oil and filter utilizing 10 qts of Exxon Elite 20W50 and filter AA48103, cut open old filter no contaminants found. Adjusted Magneto timing, both 20 BTC, replaced missing screw from #4 valve cover. Replaced missing bolt form baffle. Installed new TIT probe P/N 686-216, due to be replaced again at tach time 1100.7. Re-torqued turbo flange nuts on left and right side. I certify that this engine has been inspected IAW an annual inspection and was found to be in a airworthy condition and is approved for return to service for the work performed, Lawson Aero, LLC Afton, WY

Mechanic Jack Buckley A&P/IA 2827868

Total To Carry Forward				

Date 7-12-16 N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TACH 895.1, STOH 366.0.

Changed engine oil and filter utilizing 10 qts of Exxon Elite 20W-50 and filter CH48103, cut open old filter no contaminants found. This engine is approved for return to service for the work performed, Lawson Aero, LLC Afton, WY Mechanic Jack Buckley A&P/IA 2827868

DATE 9-14-16 N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 922.3 STOH 393.2

Installed new engine mount P/N 89137-043 which terminates the recurring inspection. Engine mount was installed with new hardware P/Ns AN6-24A, AN6-12A, AN7-40A, AN6-32A, Revised W&B see POH. Found right turbo bracket broken, replaced bracket with P/N 07A22544, found hole in pressurization hose, replaced hose with P/N 566-339. Installed 2 new gaskets P/N 06B19913 & 06B21326. Approved for return to service, Lawson Aero, LLC Afton, WY

Mechanic James W. Lawson, Jr. A&P/IA 3034108

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ENGINE LOG

DATE 12-21-16 N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 940.5 TACH 940.5
Changed engine oil and filter utilizing 11qts of Exxon Elite 20W-50 and filter AA48103, cut open old filter no contaminants found. Approved for return to service for the work performed. Lawson Aero, LLC
Mechanic Jack Bull A&P/IA 2827868

JUNE 14	2017	HO13BS	995	DRAINED OIL & REMOVED FILTER, INSTALLED 48103 FILTER & 10QT EXXON ELITE WASHED ENGINE & LUBED WASTEGATE
Total To Carry Forward				<u>Jack Bull</u> <u>2827868 A&P/IA</u>

DATE 06-28-2017 N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 996.9, TACH 996.9, STOH 467.8

Compression #1. 80/70, #2. 80/71, #3. 80/75, #4. 80/75, #5. 80/77, #6. 80/75. Bore scoped cylinders and no corrosion found. Checked magneto timing both 20 BTC, Complied with AD 15-19-07 by visual inspection, due again at tach time 1096.9. New TIT probe due to be replaced at tach time 1100.7. All other ADs checked through 2017-12 all okay at this time. I certify that this engine has been inspected in accordance with a annual inspection and was found to be in a airworthy condition at this time and date. Lawson Aero, LLC Afton, WY
Mechanic Greg Gorgensen A&P/IA 2688311

DATE: 11/03/2017, N132TL, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 1047, TACH 1047.

- Installed 6 new cylinders, Kit # 05K21262. Serviced engine with Phillips XC 20W-50 and filter AA48103.
 - Ground run all systems check okay, no leaks noted.
- This engine is approved for return to service for the work performed. Lawson Aero, LLC, Afton, WY.
Mechanic: Heath Lawson A&P/IA 4034378

ENGINE LOG

DATE: 03-07-2018 N132TL, LYCOMING TIO-540-AE2A, S/N 13596-61A, TT 1080.3, STOH 33.3.

AD 11-06-10 was complied with by Installing a new TIT probe P/N 686-216 due to be replaced at tach time 1330.3. AD 17-11-10 N/A by engine model, AD 17-16-11 N/A by engine model and parts purchase date.

This engine is approved for return to service for work performed. Lawson Aero, LLC Afton, WY.

Mechanic Heath Lawson A&P 4034378

09-03-2018

DATE: ~~07-11-2018~~ N132LT, LYCOMING TIO-540-AE2A, S/N L-13596-61A, TT 1100.2, TACH 1100.2 STOH 53.2.

- Compressions 1) 79/80, 2) 78/80, 3) 78/80, 4) 77/80, 5) 78/80, 6) 77/80.
- Cleaned, gapped, tested and rotated spark plugs.
- Checked engine fuel and oil lines all okay at this time.
- Adjusted left magneto timing, both mags timed to 20 BTC.
- Lubed waste gate.
- Changed oil and filter utilizing 10 qts. of Phillips 20w/50 and filter AA48103, cut open old filter with no contaminants found.
- AD 15-19-07 fuel line/clamps were visual inspected, all okay at this time. Next due at tach time 1440.2.
- ADs checked through 2018-12.

I certify that this engine was inspected in accordance with an annual inspection and was found to be in airworthy condition at this time. Lawson Aero, LLC, Afton, WY.

Mechanic: James W. Lawson Jr. A&P/IA 303 4108

FirstXLine

AERO

A/C: N132LT
TIO-540-AE2A

S/N: 46-36493

Hobbs: 1113.8

Date: 09 NOV 2018

Performed compression test, compressions as follows: 79, 71, 75, 75, 76, 74/80. Removed both magnetos and sent for 500HR inspections, see 8130s from Universal. Reinstalled magnetos and timed to the engine. Ops and leak checked, no defects noted. All MX performed IAW PA46 and Lycoming MMs as applicable.

James A. Stewart A&P 3576016
James Stewart A&P

12-11-18 Tach/Hobbs 1147.8 Changed Oil And Filter. Checked
Old Filter For Contamination. None Found. Serviced Engine with
11 Qts Phillips 20W50XC. Washed Down Engine. Ran And
Checked For Leaks And Proper Operation.
Robert Faulkner A&P 993252

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
3-15-19	Hobbs 1186.7	changed oil And Filter. Oil Sample Taken. Checked Old Filter For Contamination None Found. Serviced With 11Rts Phillips 20W50XC, Washed Down Engine. Ran And Checked For Leaks And Proper Operation. Dale R Faulkner ATP1993252		
5-20-2019	Hobbs 1234.0	changed oil And Filter. Oil Sample Taken. Checked old Filter for Contamination. None Found. Serviced with 11qt Phillips		
Total To Carry Forward				— cont →

and Remarks	Signature	Certificate No.
→ cont → 20W50 xc oil. Washed Down Engine. Ran And checked For leaks and proper operation Dirk Gruenewald D. Gruenewald	ATP 3502680	
8-21-19 Hobbs 1280.8 changed oil And Filter. Sample Taken. Serviced With 11 Rts Phillips 20W50XC And 1 Can Cam Guard Additive. Washed Down Engine. Ran And Checked For Leaks And Proper Operations. Dale R Faulkner ATP1993252		

ENGINE LOG

2802 Old Tower Road
Phoenix, Arizona 85034
FAA Repair Station No. EKGR571D602-267-4070 Phone
602-267-4030 FAXModel PA-46-350P
Serial No. 4636493
Registration N132LT
Page 1 of 1Engine Maintenance
RecordWork Order No. 02M-11420
Hour Meter 1256.3
Aircraft Total Time
Landings N/A

- Removed upper and lower engine cowlings. Removed all upper spark plugs and inspected. Noted cylinders 1, 2, 3, 4, 5 all have fine wire type spark plugs. Cylinder 6 has massive electrode type. Found no other discrepancies. Performed compression test. All cylinders made 80 psi. Removed intake ducts off L/H and R/H turbochargers. Both turbos spin smoothly. Used borescope to inspect both turbocharger turbine blades. Inspected exhaust system for signs of leaks. Inspected all induction pipes, couplers, and fittings for leaks. Inspected and lubricated wastegate. Inspected pressure relief valve. Reinstalled spark plugs, spark plug wires, and engine cowlings. Performed engine runs. Performed mag drop test. Engine speed dropped 50 RPM with the left mag off and 40 RPM with the right mag off. Took engine to full power 3 times. Ambient temperature 102 degrees. Performed engine runs again at 82 degrees. Performed mag drop test again and took engine to full power 4 times. Removed engine cowlings, removed all 12 spark plugs and replaced with new spark plugs P/N: RHB37E. Reinstalled engine cowlings. Work performed referencing Piper PA-46-350P AMM, section 74-20-00 and 71-19-00. Performed engine performance run. No discrepancies noted.
- Removed L/H and R/H intercooler's, #5 and #6 valve covers. Replaced both valve cover gaskets with new P/N: 06B26811. Reinstalled valve covers and intercooler's. Performed engine run, leak check good. Work performed referencing Lycoming Engines TIO-540-AE2A SSP-1776, Part 1 section 5.

The aircraft and/or component identified above was repaired and inspected in accordance with current federal aviation regulations and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station.

Signed:

Kevin Reedy

Date: JUL 1, 2019

FAA Repair Station No. EKGR571D

Total To
Carry ForwardENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13596-61A
REG. NO: 132LT
WORK ORDER:
10933-09-2019

Flightline Group, Inc.

3256 Capital Circle SW
Tallahassee, Florida 32310
Phone: 850-576-3515DATE: 10/25/2019
A/C TSN: 1328.6
ENG TT: 1328.6
TSMOH:
HOBBS: 1328.6

Engine Entries

C/W Engine Annual Inspection...Engine compression readings (80 psi applied): #1-77, #2-74, #3-77, #4-76, #5-76, #6-77...Changed oil and filter. (12 qts. 20W50 Phillips X/C oil, CH48103-1 Champion filter). Opened old filter and visually inspected for metal; none detected at this time...Checked engine / magneto timing...Inspected, cleaned and reinstalled induction air filter...Lubed engine and airframe controls per MM Chpt. 12...Re torqued all "V" band clamps as required...Installed new valve cover gaskets on #2 and #3 cylinders...Removed and replaced waste gate return spring. P/N 477312-0000...Cleaned, tested and reinstalled spark plugs...Removed and replaced broken clamp on exhaust cross over heat shield. P/N: LW15592-8E24...Rigged control rod between turbo controller and servo. Ref LYC SI 1431...C/W Lycoming AD 2015-19-07 by inspection of fuel injector lines, hoses, clamps and support brackets. Next due: ACTT= 1438.6. Ref.: Lycoming MSB No. 342G...C/W Lycoming AD 2017-16-11 and Lycoming Mandatory SB 632: Identification of Connecting Rods with Non-Conforming Small End Bushings does not apply by Engine Model Number...C/W Piper AD2011-06-10 and Piper SB 995C. Replaced TIT probe P/N 686-216 Ref. AMM 77-20-00...C/W Lycoming Service Bulletin 531C: Inspection of Turbochargers and Tailpipes. Comply with annually or every 250 hours of operation, whichever comes first. Ref.: Piper SB 1012...C/W Lycoming Service Bulletin 521: Inspection of Exhaust System Slip Joints for Proper Engagement and Inspection of Marmon Flange Joint at Transition Inlet. Comply with annually or every 250 hours of operation, whichever comes first. Ref.: Piper SB 1012. Next due 10/2020...C/W Lycoming SB 480F Oil filter/screen content inspection...C/W Lycoming SI 1492D Piston Pin Wear Inspection...Cleaned engine. Operational and leak checks satisfactory.

The aircraft, engine, propeller, or appliance identified above has been inspected per current FAA Regulations in accordance with an annual inspection, referencing the Annual Inspection Guide as set forth in the latest revision of the Piper PA-46-350P Maintenance Manual and was found to be in an airworthy condition. This release in no way certifies future airworthiness.

DATE: 10/25/2019



SIGNED:



James Brown, IA: 2847216

Work Order: 10933-09-2019


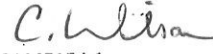
Printed by EBIS 3 (datcomedia.com)

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
wo: WO19-428				
				
Exec Aero LLC - 83 Nilson Way - Orlando, FL 32803 - 4074207934				
N132LT Hobbs: 1330.1				October 31, 2019
1. Performed a pre-buy inspection IAW Van Bortel Pre-Purchase Evaluation Checklist. The following maintenance was performed: Compression check: #1-70, #2-72, #3-73, #4-74, #5-72, #6-75 /80. Inspected oil filter element-no discrepancies noted. Replaced oil filter and saftied. Post run and leak check satisfactory. Installed (1) CH48103-1 - OIL FILTER.				
With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Exec Aero LLC under work order: WO19-428.				
Erich Knees Inspection Authorization 2928839 				
Total To Carry Forward				

Engine Logbook Entry	N132LT	Work Order: 2246		Spectrum Aero, LLC 4004 5 th St. Kissimmee, FL 34741 www.SpectrumAero.com
Aircraft: Piper Mirage PA46-350P Engine:TIO-540-AE2A		Aircraft S/N: 4636493 Engine S/N: L-13596-61A		
Hobbs: 1386.4				
FAA Part 91. 407 100 hr/ Annual inspection was performed IAW FAR 43.15c(2), appendix D using the Piper PA46-350P 100 hour inspection checklist as a guide. Airworthiness Directive compliance current through 2020-23.				
Cylinder compressions: (1) 75 (2) 74 (3) 74 (4) 75 (5) 72 (6) 74. Drained oil, removed filter. Inspected element with no defects noted. Installed new filter. Serviced engine with 11 quarts Phillips X/C 20-50 oil. Removed, serviced and installed all spark plugs with no defects. Serviced induction filter. Lubricated all engine controls. Lubricated turbo system and exhaust. Repaired wiring for #1 CHT sensor. C/W A.D. 15-19-07 by visual inspection of fuel injector lines, clamps, fittings with no defects.				
I certify this engine has been inspected IAW a 100hr/Annual inspection and determined to be in airworthy condition. All work was performed in accordance with current Federal Aviation Regulations and PA46-350P Maintenance Manual and aircraft is approved for return to service.				
Charles Wilson  A&P Mechanic 3114515 I.A.				Date released: 12/12/2020

ENGINE LOG

Engine Time	Recorder
Enginc. Logbook Entry N132LT Aircraft: Piper Mirage PA46-350P Engine:TIO-540-AE2A	Work Order: 2629 Aircraft S/N: 4636493 Engine S/N: L-13596-61A  Spectrum Aero, LLC 4004 5th St. Kissimmee, FL 34741 www.SpectrumAero.com
Hobbs: 1461.6	
FAA Part 91. 407 Annual inspection was performed IAW FAR 43.15c(2), appendix D using the Piper PA46-350P 100 hour inspection checklist as a guide. Airworthiness Directive compliance current through 2022-02.	
Cylinder compressions: (1) 79 (2) 80 (3) 79 (4) 80 (5) 80 (6) 79 Drained oil, removed filter. Inspected element with no defects noted. Installed new filter P/N: AA48103-2. Serviced engine with 11 quarts Phillips X/C 20-50 oil. Removed, serviced, and installed all spark plugs with no defects Installed 1 spark plugs P/N: RHB-37E. Replaced induction filter with new. Lubricated all engine controls. Lubricated turbo system and exhaust. C/W A.D. 15-19-07 by visual inspection of fuel injector lines, clamps, fittings with no defects.	
I certify this engine has been inspected IAW a Annual inspection and determined to be in airworthy condition. All work was performed in accordance with current Federal Aviation Regulations and PA46-350P Maintenance Manual and aircraft is approved for return to service.	
Charles Wilson  A&P Mechanic 3114515 I.A.	Date released: 1/26/2022
Total To Carry Forward	

CO-MAR
AVIATION
A Member of the Martin Group

1020 Woodhurst Street
Bowling Green, KY 42103
270-781-9797

N132LT LYCOMING TIO-540-AE2A S/N: L-13596-61A
FEB 14, 2023 HOBBS: 1559.3

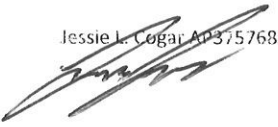
Serviced and inspected per Piper PA-46-350P AMM in accordance with FAR part 43 App. D. Compressions checked at 1-70, 2-77, 3-76, 4-76, 5-78, 6-77 /80. Replaced spark plugs with new Champion RHB37E-12. Magneto timing checked at 21-L 22-R, set both to 20 Deg. BTDC. Drained oil and inspected suction screen and filter element per Lycoming SB 480F, no defects noted.. Serviced with 12 Qts. AeroShell 100W plus and AA48103 filter. Replaced lower pneumatic pump with new P/N: AA442CW-6 S/N: 12L505Cleaned fuel inlet screen.

C/W AD 2015-19-07, Effective 11/3/2015, Fuel injector lines, by inspection per Lycoming MSB 342G, no defects noted, next due: 1669.3

AD's checked through 2023-04, Run up and ground checks satisfactory. END.

I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in an airworthy condition.

Jessie L. Cogar AD3757683/A



ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

CO-MAR
AVIATION
A Member of the Martin Group

1020 Woodhurst Street
Bowling Green, KY 42103
270-781-9797

N132LT LYCOMING TIO-540-AE2A S/N: L-13596-61A
MAY 26, 2023 HOBBS: 1690.5 TTE: 1690.5

Serviced and Inspected per Piper PA-46-350P AMM in accordance with FAR part 43 App. D. Compressions checked hot at 1-74, 2-76, 3-76, 4-74, 5-77, 6-76 /80. Cleaned, gapped and rotated spark plugs. Magneto timing checked at 20 Deg. BTDC. Inspected sump screen and filter element per Lycoming SB 480F, no defects noted. Serviced with 12 Qts. AeroShell 100W plus and AA48103 filter. Exhaust leak at left bank turbo transition. Replaced Flange P/N: 40C19819, gasket P/N: 78084, v-band coupling P/N: LW-12093-5 and cylinder flange gaskets of cylinders #2 and #3 with P/N: 77611. Replaced heat damaged hose assemblies to left turbo with P/N's LW-12878-4S200 and LW-12798-4S204.

C/W AD 2015-19-07, Effective 11/3/2015, Fuel injector lines, by inspection per Lycoming MSB 342G, no defects noted, next due: **1805.5**

AD's checked through 2023-12, END.

I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in an airworthy condition.

Jessie L. Cogar AP3757683IA

Total To
Carry Forward

ENGINE LOG

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

CO-MAR
AVIATION
A Member of the Martin Group

1020 Woodhurst Street
Bowling Green, KY 42103
270-781-9797

N132LT LYCOMING TIO-540-AE2A S/N: L-13596-61A

APR 21, 2023 HOBBS: 1611.9

Oil change, inspected suction screen and filter element per Lycoming SB 480F, no defects noted.. Serviced with 12 Qts. AeroShell 100W plus and AA48103 filter. END.

Jessie L. Cogar AP3757683

Jessie L. Cogar AP375768

ENGINE LOG

Date: 2/28/2024; Aircraft: N132LT; Type: PA46-350P; S/N: 4636493; Hobbs: 1764.10; Total Time: 1764.10; Engine - Type: TIO-540-AE2A, S/N: L-13596-61A, Time: 1764.10
Shop Order #: SH-23-0472, Closed: 2/28/2024
Discrepancy:
PERFORM PRELIMINARY INSPECTION.
PRELIMINARY INSPECTION COMPLIED WITH AND ANY DISCREPANCIES NOTED ARE LISTED ON WORK ORDER WORK SHEET.
Discrepancy: 300
ANNUAL INSPECTION DUE ON ENGINE:
CORRECTIVE ACTION:300
COMPLIED WITH ANNUAL INSPECTION. NEXT DUE IN 12 MONTHS. SEE THIS WORK ORDER FOR DEFECTS.
Discrepancy: 301
PERFORM COMPRESSION CHECK.
CORRECTIVE ACTION:301
COMPRESSION CHECKED: 1- 70/80, 2-75 /80, 3-76 /80, 4- 74/80, 5- 76 /80, 6- 76/80.
Discrepancy: 302
CHANGE ENGINE OIL AND OIL FILTER. INSPECT OIL FILTER CARTRIDGE.
CORRECTIVE ACTION:302
CHANGED ENGINE OIL AND OIL FILTER, INSPECTED OIL FILTER CARTRIDGE, NO DEFECTS NOTED. INSTALLED NEW ENGINE OIL FILTER PART NUMBER AA48103-2 SERVICED ENGINE WITH 12QTS AEROSHELL 100W+ NO LEAKS NOTED FOLLOWING ENGINE RUN.
Discrepancy: 303
TAKE ENGINE OIL SAMPLE.
CORRECTIVE ACTION:303

Total To
Carry Forward

Maintenance

TOOK ENGINE OIL SAMPLE AND SENT FOR ANALYSIS

Discrepancy: 304

AFT CLAMP AND RH SIDE EXHAUST LEAKING:

CORRECTIVE ACTION:304

REFER TO DISC# 305 FOR CORRECTIVE ACTION.

Discrepancy: 305

BULGE ON RH FORWARD EXHAUST NEAR #3 EXHAUST STACK:

CORRECTIVE ACTION:305

REMOVED ELBOW FOR #1 CYLINDER AND #3 EXHAUST STACK. CLEANED EXHAUST SOOT FROM REUSABLE PARTS OF EXHAUST AND APPLIED ANTI-SEIZE. INSTALLED NEW ELBOW P/N 40B19844AWL S/N 10GDH-14 AND #3 STACK P/N 40B19827AWL S/N 10GWN-39 WITH NEW GASKETS P/N 77611 AND 17189-200N. #3 EXHAUST STACK WOULD NOT LINE UP WITH THE SLIP FLANGE, LOOSENED TURBO MOUNT EXHAUST FLANGES AND CROSSOVER TUBE BAND CLAMP TO FIX ALIGNMENT. REPLACED GASKET AT CROSSOVER TUBE P/N 06B19913, AND TQD ALL EXHAUST STACK FLANGES AND BAND CLAMPS, IAW SSP-1776-5-PT1 AND MIRAGE MAINTENANCE MANUAL 71-00-00 NO DEFECTS NOTED.

Discrepancy: 306

VALVE COVER GASKETS LEAKING AND NEED REPLACED:

CORRECTIVE ACTION:306

REPLACED #2 AND 4 VALVE COVER GASKETS WITH NEW P/N RG67193 IAW LYCOMING STANDARD PRACTICES MAINTENANCE MANUAL. NO DEFECTS NOTED.

Discrepancy: 307

LOT OF EXHAUST STAIN AROUND LEFT HAND TURBO AND AFT CYLINDER:

CORRECTIVE ACTION:307

REMOVED EXHAUST FROM LEFT SIDE OF ENGINE AND CLEANED SOOT FROM REUSABLE

No.

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
				EXHAUST PARTS AND APPLIED ANTI-SEIZE. WASTEGATE ADAPTER WAS FROZEN INSIDE THE WASTEGATE HOUSING, HAD TO APPLY HEAT AND PENETRANT MULTIPLE TIMES IN ORDER TO FINALLY FREE IT. INSTALLED NEW #2 ELBOW P/N 40B19841AWL S/N I0GNN-19, #2 STUB P/N 40B19840AWL S/N I0GII-45, #6 STUB P/N 40B19840AWL S/N I0GII-46, #4 STACK P/N 40B19842AWL S/N I0GNQ-43, ADAPTER (WASTEGATE INLET) P/N 40B19851AWL S/N I0H5G-25 WITH NEW GASKETS P/N 75845, 77611 AND 17189-200N IAW SSP-1776-5-PT1 AND MIRAGE MAINTENANCE MANUAL 71-00-00. NO DEFECTS NOTED.
				Discrepancy: 308
				TURBO OUTLET CLAMPS AD 23-09-09:
				CORRECTIVE ACTION:308
				TURBO OUTLET CLAMPS AD 23-09-09 SPOT WELD DOES NOT APPLY RIVETED CLAMPS INSTALLED
				Discrepancy: 309
				EXHAUST HEAT EXCHANGER FOR CABIN HEAT LEAKING DURING PRESSURE CHECK:
				CORRECTIVE ACTION:309
				REMOVED EXHAUST HEAT EXCHANGER AND INSTALLED REPAIRED UNIT P/N 40B22295, UNIT REPAIRED BY ACORN WELDING LTD, EDMONTON, AB, UNDER THEIR WORK ORDER I0GU9. REINSTALLED SHROUD AROUND HEAT EXCHANGER AND INSTALLED MOUNT BRACKETS IAW MIRAGE MAINTENANCE MANUAL 71-00-00, NO DEFECTS NOTED.
				Discrepancy: 310
				UPPER DECK PRESSURE HOSES CRACKED, AND FUEL INJECTORS NEED CLEANED
				CORRECTIVE ACTION:310.
				REPLACED UPPER DECK PRESSURE HOSES P/N LW18724. REMOVED INJECTORS AND CLEANED WITH HOPPE'S NO.9. REINSTALLED INJECTORS WITH NEW O-RINGS 951391 IAW MALIBU MAINTENANCE MANUAL 73-10 AND LYCOMING SERVICE INSTRUCTION NO. 1275C.
Total To				
Carry Forward				

Date	Remarks	Site No.
	PRESSURE CHECKS GOOD. PERFORMED ENGINE RUN, NO DEFECTS NOTED.	
	Discrepancy: 311	
	ALTERNATOR FANBLADE COVER RUBBING FLYWHEEL:	
	CORRECTIVE ACTION:311	
	LOOSENED ALTERNATOR TO REMOVE BELT. REMOVED PULLEY ASSY. FROM ALTERNATOR. REVERSED FANBLADE COVER AND REINSTALLED PULLEY. REINSTALLED BELT AND TIGHTENED ALTERNATOR. FUNCTION CHECK GOOD, NO DEFECTS NOTED AT THIS TIME.	
	Discrepancy: 312	
	PLAY IN ALTERNATE AIR ARM:	
	CORRECTIVE ACTION:312	
	REPLACED ALTERNATE AIR ARM P/N 84032-007. DRILLED HOLE IN NEW ARM FOR ROLL PIN, INSTALLED AND SAFETIED. NO DEFECTS NOTED.	
	Discrepancy: 313	
	BOLT LOOSE FOR THROTTLE:	
	CORRECTIVE ACTION:313	
	TIGHTENED THROTTLE ARM BOLT, SAFETIED, AND VERIFIED TRAVEL. NO DEFECTS NOTED.	
	Discrepancy: 314	
	LEFT HAND MAG DUE OH:	
	CORRECTIVE ACTION:314	
	REMOVED LEFT MAG P/N 6363 S/N 10080711. SWAPPED MAG PICKUP AND PRESSURIZATION ELBOW TO OVERHAULED MAG. INSTALLED OVERHAULED MAG P/N 6363 S/N H-X090080. MAG OVERHAULED BY QUALITY AIRCRAFT ACCESSORIES UNDER THEIR WORK ORDER M867050 CERTIFICATE 9QFR310C. MADE ALL CONNECTIONS AND PERFORMED MAG TIMING ADJUSTMENT IAW PIPER MALIBU MAINTENANCE MANUAL 74-10-00. NO DEFECTS NOTED.	
	Discrepancy: 315	

RIGHT HAND MAG DUE OH:
CORRECTIVE ACTION:315
REMOVED RIGHT MAG P/N 6360 S/N 10110025. SWAPPED PRESSURIZATION ELBOW TO OVERHAULED MAG. INSTALLED OVERHAULED MAG P/N 6360 S/N H-X080126. MAG OVERHAULED BY QUALITY AIRCRAFT ACCESSORIES UNDER THEIR WORK ORDER M840220 CERTIFICATE 9QFR310C. MADE ALL CONNECTIONS AND PERFORMED MAG TIMING ADJUSTMENT IAW PIPER MALIBU MAINTENANCE MANUAL 74-10-00. NO DEFECTS NOTED.
Discrepancy: 316
LH TURBO BEARING DRAG:
CORRECTIVE ACTION:316
REMOVED LH TURBO P/N 466642-9005 S/N H-NLL001102, INSTALLED OVERHAULED TURBO P/N 466642-0005 S/N H-ZEL00037. TURBO OVERHAULED BY APPROVED TURBO COMPONENTS VERO BEACH, FL. ADJUSTED CLOCKING OF COMPRESSOR AND TURBINE HOUSINGS TO FIT THE APPLICATION. HAD ALIGNMENT ISSUES SO LOOSENEED TURBO MOUNT AND EXHAUST FLANGES AND AFT BAND CLAMPS TO FIX THE ISSUE. TQ'D ALL EXHAUST FLANGES, BAND CLAMPS AND TURBO MOUNTS AND OIL FITTINGS AND REINSTALLED TAILPIPE WITH NEW GASKET P/N 75845 IAW SSP-1776-5-PT1 AND MIRAGE MAINTENANCE MANUAL 71-00-00, NO DEFECTS NOTED.
Discrepancy: 317
REMOVE LEFT TURBO MOUNT, LEFT TURBO MOUNT STRUT, AND LEFT EXHAUST HEAT SHIELD AND REMOVE CORROSION.
CORRECTIVE ACTION:317
REMOVED LEFT TURBO MOUNT BRACKET AND STRUT AND MEDIA BLASTED THEM. FOUND A CRACK IN MOUNT BRACKET, REPLACED WITH REPAIRED BRACKET P/N 07A19870 FROM ACORN WELDING LTD, WORK ORDER IP977. PAINTED STRUT WITH HIGH TEMP PAINT AND

T
Carry Forward

The aircraft, airframe, aircraft engine, propeller or appliance identified above was
INSPECTED & REPAIRED in accordance with current regulations of the Federal Aviation
 Administration and passed inspection. I certify that this aircraft was found airworthy
 and is approved for return to service. Pertinent details of the repair are on file at this repair station.
 SIGNED: Michael Singer DATE: 8-28-24
 Tri-State Aero, LLC CRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 5213514	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract Invoice Number: 2364976	
6. Item: 10	7. Description: GASKET	8. Part Number: 06B21326	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT Lot/Batch # 04012019 PO#: P11063							
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.							
14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.							
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): TERRY WEEKS		13e. Date (dd/mm/yyyy): 09/Aug/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller article. 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 aircraft engine(s)/propeller(s) article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a 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 (02-14) NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 5213514	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract Invoice Number: 2364976	
6. Item: 20	7. Description: GASKET	8. Part Number: 06B19913	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: P11063							
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.							
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13d. Name (Typed or Printed): TERRY WEEKS		13e. Date (dd/mm/yyyy): 09/Aug/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: MS-473533	
4. Organization Name and Address: LYCOMING ENGINES 652 OLIVER STREET WILLIAMSPORT, PA 17701						5. Work Order/Contract Invoice Number: 147126/4359475	
6. Item: 1.1	7. Description: BRACKET-TURBO MOUNTING-RIGHT	8. Part Number: 07A22544	9. Quantity: 00001	10. Serial Number: N/A	11. Status/Work: NEW		
12. Remarks: AIRWORTHINESS APPROVAL PARTS TRIAD AVIATION United States							
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.							
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13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA830878NE		14b. Authorized Signature		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): J. DABBACK		13e. Date (dd/mm/yyyy): 02 SEP 2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install aircraft engine/propeller/article. 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 aircraft engine/propeller/article from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a 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 (02-14) *Installer must cross check eligibility with applicable technical data.

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 5217737	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract Invoice Number: 2368367	
6. Item: 10	7. Description: MOUNT	8. Part Number: J7763-1	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT Lot/Batch # 2Q15 PO#: P11083							
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.							
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13d. Name (Typed or Printed): RANDY MALCOLM		13e. Date (dd/mm/yyyy): 11/Aug/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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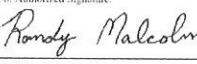
FAA Form 8130-3 (02-14) NSN: 0052-00-012-9005

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4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract Invoice Number: 2368367	
6. Item: 20	7. Description: MOUNT	8. Part Number: J9612-8	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT Lot/Batch # 3Q15 PO#: P11083							
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.							
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13d. Name (Typed or Printed): RANDY MALCOLM		13e. Date (dd/mm/yyyy): 11/Aug/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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