

ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION T10209078 / N1080B

ENGINE MODEL AND SERIAL T10-540-AK1A / L-13805-61A

D5518-3-13

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations 43.9, 43.11 and 91.173 and/or other prevailing government regulations.

well as the

Duplicate issued 11-Feb-2016

LYCOMING

Part Number:	ENPL-10657
Serial Number	L-13805-61A
Engine Model	TIO-540-AK1A
Work Order	AR522855
Total Time	0 New

27-Mar-2012

Authorized Representative _____ Date _____

Production Certificate #3

652 Oliver Street Williamsport, PA 17701 U.S.A
Lycoming Engines is a division of Avco Corporation

Form 777C Rev 05/13

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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE			 LANDMARK AVIATION 330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS			
				Date: 7/14/2012; Aircraft: N1880B; Tach: 30.00 Shop Order #: S05-12-61084, Closed: 7/16/2012 ENGINE LOG ENTRY: Oil and filter changed, serviced with 9 qts Phillips 20W50 and installed CH48110-1 filter. Old filter cut open and inspected, no contaminants found. Installed Saf-Air F5000 oil quick drain valve. Removed left mag p/n 6361, s/n 12021344 and installed new p/n 6361, s/n 12051508. Post maintenance ground run satisfactory, no leaks noted.  C. John Colaluca for Landmark Aviation CRS LC1R291K	



MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE			 LANDMARK AVIATION 330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS			
				Date: 8/08/2012; Aircraft: N1880B; Tach: 57.50 Shop Order #: S05-12-61121, Closed: 8/09/2012 ENGINE LOG ENTRY: Oil and filter changed, serviced with 9 qts Phillips 20W50 and installed CH48110-1 filter. Old filter cut open and inspected, no contaminants found. Post maintenance ground run satisfactory, no leaks noted.  C. John Colaluca for Landmark Aviation CRS LC1R291K	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
	HOURS	10THS



**LANDMARK
AVIATION**

330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 10/05/2012; Aircraft: N1880B; Tach: 119.30
Shop Order #: S05-12-61207, Closed: 10/08/2012

ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50 and installed CH46110-1 filter. Old filter cut open and inspected, no contaminants found. Took sample for analysis. Post maintenance ground run satisfactory, no leaks noted.


C. John Coladuca for Landmark Aviation CRS LC1R291K

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

MAINTENANCE RECORD

DATE	T IP
	HOU

ENGINE MODEL
TIO-540-AK1A
ENGINE S/N: L-13805-61A
REG. NO. N1880B
WORK ORDER: 4940

Dulles Aviation, Inc.

Repair Station No. IBIR931E
10501 Observation Road
Manassas, Virginia 20110
Phone: 703-361-2171

DATE: 2/1/2013
AVC TSN: 155
ENG TT: 155
TACH: 155

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

Engine Entries

(1) Removed left and right side cowlings. Drained engine oil and recovered sample. Removed and inspected oil filter - no contamination noted. Installed new oil filter P/N: CH48110-1, torqued and safetied. Serviced engine with 9 quarts Phillips 20W-50 X/C. Removed bottom six spark plugs and LH nose bowl assy. Checked magneto to engine timing, both magnetos are timed to 23 degrees BTDC. Reinstalled bottom six spark plugs with new gaskets and torqued. Reinstalled LH nose bowl assy. Ground run/leak checks good at this time. Reinstalled side cowlings.

Maintenance Release

The aircraft and/or component(s) on N1880B was repaired and inspected in accordance with the current Code of Federal Regulations (CFR's) and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 4940.

DATE: 2/1/2013

SIGNED: 

Work Order: 4940

Richard Clinton Pittman
Certified Repair Station No. IBIR931E

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[illegible]
LANDMARK
 AVIATION

C. John Colalunga for Landmark Aviation CRS LC1R291K

	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

[illegible]**HORIZON**
ANALYSIS SERVICES

C.A. Duterbois

[illegible]

DATE



330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 10/04/2013; Aircraft: N1880B; Tach: 402.00
Shop Order #: S05-13-61645, Closed: 10/09/2013

ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50XC. Old filter cut open and inspected no contaminants found. Cleaned, gapped and tested all spark plugs. Retorqued all rocker cover screws. Removed fuel pump s/n H-PCN076FP and installed new pump s/n H-PEN060FP. Post maintenance ground run satisfactory, no leaks noted. I certify that the engine has been inspected in accordance with a 50 hour inspection and has been approved for return to service.

C. John Cofaluca for Landmark Aviation CRS LC1R291K

DATE



330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 1/20/2014; Aircraft: N1880B; Tach: 452.20
Shop Order #: S05-14-61508, Closed: 1/25/2014

ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50. Old filter cut open and inspected, no contaminants found. Replaced 11 ea RHB37E spark plugs in all except number two top position. CW AD 2011-26-04 by inspection of fuel injector lines and clamps per MSB342 diagram number 19A, no defects noted, next due in 100 hours or line maintenance. Post maintenance ground run satisfactory, no leaks noted.

C. John Cofaluca for Landmark Aviation CRS LC1R291K

SIGNATURE,
DATE TYPE
NUMBER

HORIZON
AVIATION SERVICES

07/29/13

N1880B

Tach 303.8

Drained oil, took sample, removed and inspected oil filter, replaced oil filter pn AA48110-2, service engine with 8 Qts Phillips 20W50X, Checked magneto timing, removed, cleaned, checked gaps, inspected and reinstalled lower spark plugs. CW AD 11-26-04 Fuel injector line and clamps visual inspection, next due @tach 403.8. Ground run and leak checks good, returned to service

C.A. Buterbaugh

DATE



330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 8/21/2013; Aircraft: N1880B; Tach: 355.40
Shop Order #: S05-13-61615, Closed: 8/22/2013

ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50 XC. Old filter cut open and inspected, no contaminants found. Took sample for analysis. CW AD 2011-26-04 by inspection of fuel injector lines and clamps, no defects found, next due in 100 hours. Post maintenance ground run satisfactory, no leaks noted.

C. John Cofaluca for Landmark Aviation CRS LC1R291K

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

MAINTENANCE RECORD

MAINTENANCE RECORD

DATE	HORIZON AVIATION SERVICES		IED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
03/12/14	N1880B Tach 457.6			
Replaced point kits in left and right Magnetos, kits dated 07/26/12, cw 500 hour mag inspection. Adjusted slope controller, MAP at 31.9. Changed oil, took sample, inspected filter for debris, replaced filter pn AA48110-2, serviced with 8 Qts Phillips 20w50 xc. Cw AD 2011-26-04, inspected fuel lines and clamps per MSB340F, next due at Tach 557.6. Ground run, mag ck, leak cks good, test flight, cks good.				
C.A. Buterbaugh [REDACTED]				
HORIZON AVIATION SERVICES				
03/21/14	N1880B Tach 457.9			
Complied with Cessna Service Letter SEL-73-02, replaced engine driven fuel pump pn 62D2607, sn H-PEN060FP with sn H-PDN066FP. Work accomplished IAW Cessna Service Letter SEL-73-02 and Cessna Model 182 Series Service Manual.				
James McGill [REDACTED]				

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		HOURS	10THS	HORIZON AVIATION SERVICES	Tach	ETT	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
05/13/14					N1880B	501.3	501.3	
Complied with Annual Inspection Using Horizon Aviation Services Checklist and manufactures service manual. Drained oil, took sample, removed oil filter, cut open and inspected for debris, none noted, replaced filter, serviced engine with 8 Qts Phillips 20w50 XC. Compression check, 1) 75 2) 76 3) 74 4) 75 5) 76 6) 75. Cleaned, gapped, tested, rotated, replaced T1 and reinstalled spark plugs. Cleaned fuel strainer. CW AD2011-26-04, visual inspection of fuel injector lines and clamps next due @ Tach 601.3. Checked AD list thru 05/13/14, see AD compliance record. Ground run-up and leak checks all good.								
I certify that this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition								
C.A. Buterbaugh [REDACTED]								

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		 LANDMARK AVIATION 330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			Date: 1/29/2015; Aircraft: N1880B; Tach: 648.60 Shop Order #: S05-15-62320. Closed: 2/02/2015 ENGINE LOG ENTRY: Oil and filter changed, serviced with Phillips 20W50XC. Old filter cut open and inspected, no contaminants found. CW AD 2011-26-04 by inspection of fuel injector lines and clamps, no defects found, next due in 100 hours or any line maintenance. Post maintenance ground run satisfactory, no leaks noted. C. John Colaluca for Landmark Aviation CRS LC1R291K	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		 HORIZON AVIATION SERVICES	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
05/08/15			N1880B Tach 655.5 EJT 655.5 Complied with Annual Inspection Using Horizon Aviation Services Checklist and manufactures service manual. Drained oil, took sample, removed oil filter, cut open and inspected for debris, none noted, replaced filter, serviced engine with 8 Qts Phillips 20w50 XC. Compression check, 1) 77 2) 76 3) 74 4) 74 5) 76 6) 76. Cleaned, gapped, tested, rotated, and reinstalled spark plugs. Cleaned fuel strainer. CW AD2011-26-04, visual inspection of fuel injector lines and clamps next due @ Tach 755.5 Checked AD list thru 05/08/15, see AD compliance record. Ground run-up and leak checks all good. I certify that this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition C. A Buterbaugh	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			SIGNATURE 330 Aviation Way TECHNICAIR Frederick, MD 21701 Aircraft Maintenance 301-662-8156 A BBA Aviation company CRS LC1R291K Date: 6/14/2016; Aircraft: N1880B; Tach: 682.00 Shop Order #: S05-16-62762 Oil and filter changed, serviced with Phillips 20W50XC. Old filter cut open and inspected, no contaminants found. Compression checked as follows: 1-75/80 2-70/80 3-74/80 4-72/80 5-65/80 6-70/80. Borescoped all cylinders and recorded digital pictures, no defects noted all showing normal indications. Replaced rocker cover gaskets on cylinder number 2, 3, 4, 5, and 6. Installed new SkyTec starter p/n 149NL s/n FN-1616125. Retimed left mag to engine. Tightened all cylinder drain back hose clamps. Post maintenance ground run satisfactory, no leaks noted. I certify that this engine has been inspected in accordance with a 100 hour inspection and has been approved for return to service.  C. John Colaninca for Signature Technicair CRS LC1R291K	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			SIGNATURE 330 Aviation Way TECHNICAIR Frederick, MD 21701 Aircraft Maintenance 301-662-8156 A BBA Aviation company CRS LC1R291K Date: 8/03/2016; Aircraft: N1880B; Hobbs: 805.00; Tach: 709.70 Shop Order #: S05-16-62843 ENGINE LOG ENTRY: Oil and filter changed, serviced with Phillips 20W50XC. Old filter cut open and inspected, no contaminants found. Compressions checked as follows: 1-78/80 2-76/80 3-79/80 4-75/80 5-76/80 6-76/80. Performed borescope inspection of all cylinders and provided digital images. Post maintenance ground run satisfactory, no leaks noted.  C. John Colaninca for Signature Technicair CRS LC1R291K	

DATE

Aviation Plus LLC

262-656-1260

Aviationplusllc.com

ATURE,
YPE**06/23/2017 N1880B Tach 770 TTE 770**

Compressions: #1 78 #2 79 #3 78 #4 77 #5 78 #6 78. Changed oil and filter(9 qts Aeroshell 15W50). Replaced deck pressure connector hoses at first tee fitting. CW AD15-19-07 injector lines and supports, visual inspection, due each 100hrs. All routine items checked per inspection sheets. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Robert Russell

MAINTENANCE RECORD

Engine Logbook Entry
AVP KENOSHA AVIATION LLC dba
KENOSHA AERO
 Kenosha, WI 53144

 AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

AIRCRAFT: N1880B
 Engine S/N L-13805-61A

TACH: 790.3

DATE: 9-8-17
 W.O.# 14541

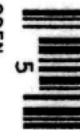
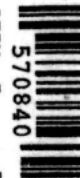
Tested gauge and wastegate. Found wastegate frozen. Removed cowl and wastegate, cleaned, lubed, freed and reinstalled wastegate using new gaskets. Cowled. Ran aircraft. Checks good.

This 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.

Signed

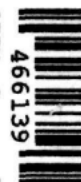
Eugene A. Kueny

ITEM: 5
ORDER: 570840SN/LOT: N/A
PN: 24096-225N
DESC: GASKET
QTY: 1
U/M: EA



1. Approving National Aviation Authority/Country:		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 570840	
4. ORGANIZATION FAA/UNITED STATES Cessna Aircraft Company Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218		5. Work Order/Contract/Invoice Number: 315910					
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
5	GASKET	24096-225N	T182	1	N/A	New	
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. T182, T206, T303 PO# VERBAL							
14. Certifies the items identified above were manufactured in conformity to: 19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in block 13							
☒ Approved design data and are in a condition for safe operation. 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 and in respect to that work, the items are approved for return to service. ☐ Non-approved design data specified in Block 13.							
16. [Redacted]		18. [Redacted]		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): STEVE WILKEY, DOA		18. Date (m/d/y): 08/06/2003		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 the 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 (8-01)				Installer must cross-check eligibility with applicable technical data.		NSN: 0052-00-012-9005	

ITEM: 3
ORDER: 466139SN/LOT: N/A
PN: 24096-225N
DESC: GASKET
QTY: 1
U/M: EA



1. Approving National Aviation Authority/Country:		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 466139	
4. ORGANIZATION FAA/UNITED STATES Cessna Aircraft Company Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218		5. Work Order/Contract/Invoice Number: 261071					
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
3	GASKET	24096-225N	T182	1	N/A	New	
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. T182, T206, T303 PO# VERBAL							
14. Certifies the items identified above were manufactured in conformity to: 19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in block 13							
☒ Approved design data and are in a condition for safe operation. 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 and in respect to that work, the items are approved for return to service. ☐ Non-approved design data specified in Block 13.							
16. [Redacted]		18. [Redacted]		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): MARILYN LIPPS, DOA		18. Date (m/d/y): 02/10/2003		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 the 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 (8-01)				Installer must cross-check eligibility with applicable technical data.		NSN: 0052-00-012-9005	

DATE 017	Engine Logbook Entry AVP KENOSHA AVIATION LLC dba KENOSHA AERO Kenosha, WI 53144	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	AIRCRAFT: N1880B TACH: 814.4 DATE: 12-07-17 S/N: T18209078 W.O.# 14572 Engine S/N: L-13805-61A Oil and filter change. Cut open filter to check for metal. O.K. Took oil sample. Installed 9 qts.20W50 Phillips X/C and one bottle of LW-16702 Lycoming additive. Also installed Champion CH48110-1 filter. Lubricated waste gate with mouse milk penetrating fluid. Ran to check for leaks. O.K.	
	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.	
	Signed Eugene A. Kueny A + P	

[illegible]

SPECTRO

ENGINE OIL SAMPLE TEST REPORT

Phone: (817) 297-2159 - Fax: (817) 297-0088

Customer Name: KENOSHA AERO
Bill Address 1: 9420 52ND ST.
Bill Address 2:
City/State/Zip: KENOSHA, WI 53144
Phone: (262) 658-2025

Aircraft Number: N1880B
Aircraft Model: T182T
Mfg: CESSNA
Engine Make: LYCOMING
Engine Model: TIO-540-AK1A
Serial Number: L-13805-61A
Engine Position: SINGLE

Lab#	Sample Date	Eng Time	Oil Time	Add	Fe	Cr	Pb	Sn	Mg	Si	Cu	Ag	Ni	Al
2435	12/13/2017	814	44.4		24.51	4.2	600	1.2	1.9	1	3.7	0.1	2.1	2.0
863	05/09/2018	844	29.9		6.51	2.7	600	0.6	1.7	5	1.6	0.2	1.3	2.1

Evaluation:

HIGH NORMAL WEAR. POSSIBLE EXHAUST VALVE WEAR.

FOR IDENTIFICATION OF THE WEAR METALS SYMBOLS (ABBREVIATIONS) AND ADDITIONAL MAINTENANCE TIPS, VISIT OUR WEB SITE www.spectrotx.com. THE INFORMATION WILL BE FOUND IN THE HEADING BAR UNDER [SUPPORT], THEN [MAINTENANCE TIPS] IN THE SECOND LINE OF THE HEADING BAR.