

ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 18282413 N413CS

ENGINE MODEL AND SERIAL IO-540-AB1AS L-36360-48E

D5518-3-13



INSTRUCTIONS


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.

NOTE: Record Service Bulletins and Airworthiness Directives in the back of this record as well as the Airframe Maintenance Record.

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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		




New Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been manufactured and ground operation tested as prescribed by Lycoming specification and Federal Aviation Regulations. All applicable Federal Aviation Airworthiness Directives applicable Lycoming Service Publications have been complied with at time of manufacture. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number: ENPL-RT10597
Serial Number: L-36360-48E
Engine Model: IO-540-AB1A5
Work Order: AR617186
Total Time: 0 New


Form 777C Rev 05/13




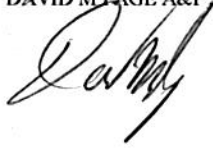
Authorized Representative Date 8/1/15

Production Certificate #3
652 Oliver Street Williamsport, PA 17701 U.S.A
Lycoming Engines is a division of Avco Corporation

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER																		
	HOURS	10THS																				
			<table border="1"> <thead> <tr> <th>A/C Serial #</th> <th>A/C Unit #</th> <th>A/C Registration #</th> <th>Date</th> <th>City ID</th> <th>Total A/C Hours</th> <th>Total A/C Landings</th> <th>Total Engine HRS</th> <th>Total Prop Hrs</th> </tr> </thead> <tbody> <tr> <td>18282413</td> <td>82413</td> <td>N413CS</td> <td>Feb. 17, 2016</td> <td>IDP</td> <td>3.2</td> <td>3</td> <td>3.2</td> <td>3.2</td> </tr> </tbody> </table> <p>Engine Model IO-540-AB1A5 Serial Number L-36350-48E has been installed on aircraft S/N 18282413 with TTAF 3.2 TTSN was 3.2 This engine serviced with 11 qts Phillips Aviation Oil Type M 20W50 and Champion CH48110-1 filter.</p> <p>Work Performed by CESSNA AIRCRAFT COMPANY Certificate No. PC-4 Date Feb. 17, 2016 I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the Federal Aviation Administration  Work inspected by Robert R. Evans Certificate No. PC-4 Date Feb. 17, 2016 Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable</p>	A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Total Engine HRS	Total Prop Hrs	18282413	82413	N413CS	Feb. 17, 2016	IDP	3.2	3	3.2	3.2	
A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Total Engine HRS	Total Prop Hrs														
18282413	82413	N413CS	Feb. 17, 2016	IDP	3.2	3	3.2	3.2														

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			<p>CESSNA 182T N413CS S/N 18282413 5-3-2016 INV# 9181 TACH TIME-21.4</p> <p>CHANGED OIL AND FILTER, USED FILTER OPENED AND INSPECTED, FOUND SATISFACTORY. SERVICED WITH 9 QTS OF PHILLIPS 20W50 XC. GROUND RUNUPS PERFORMED, LEAK AND FUNCTION CHECKS SATISFACTORY. ADJUSTED IDLE MIXTURE SETTING TO DECREASE RICH CONDITION.</p> <p>-----END-----</p> <p>KACY RAWLINGS A&P 3791541  DAVID M PAGE A&P 3130153 </p>	

DATE	TOTAL TIME IN SERVICE			
	HOURS	10THS		
			<p style="text-align: center;">TACHOPLAN <i>E. Noftz</i></p> <div style="position: absolute; top: 0; right: -60px;">31</div> <p style="text-align: center;">CESSNA 182T N413CS S/N 18282413 10-26-2016 INV# 9621 TACH TIME-52.8</p>	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
			CHANGED OIL AND FILTER, USED FILTER OPENED AND INSPECTED, FOUND SATISFACTORY, SERVICED WITH 9 QTS OF PHILLIPS 20W50XC, INSTALLED A NEW CH48110-1 FILTER. GROUND RUNUPS AND LEAK CHECKS SATISFACTORY.	
			-----END-----	
			ERIC NOFTZ A&P 3047803 <i>E. Noftz</i>	

[illegible]

SIGNATURE,
DATE TYPE
NUMBER

Beechcraft

**Hawker**

TEXTRON AVIATION

3 Cessna Blvd.
Wichita, KS 67215
CRS# X07R071Y
EASA.145.5122

Model 182T
Ser. No. 18282413

Registration No.	N413CS
Total Time Hobbs	73.0

Date 25 Jan 2017
Total Time Tach 66.5

Performed an Annual/100 hour inspection. Cessna inspection time intervals completed A,AX,B,C,D,F,O,P,R,S,W,X.

C/W AD 2011-26-04 Lycoming fuel injection lines and clamp inspection. Inspected per Lycoming SB342G by visual inspection. Due at 166.5 hours

R&R CHT probe p/n 32DKWUE006F0126 due to red X. Ops check ok.

Adjusted magneto timing to 23 degrees BTDC.


Drained oil, cut filter and inspected. Installed new CH48110-1 filter and refilled with 9 qts of Phillips X/C 20W-50. Cylinder compressor results are #1 79/80 #2 78/80 #3 79/80 #4 78/80 #5 78/80 #6 79/80. No leakage at valves noted.

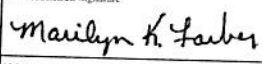
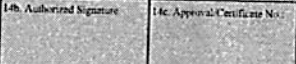
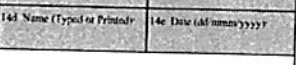
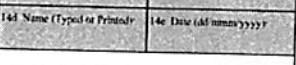
I certify that this power plant was repaired and inspected in accordance with the manufactures inspection program required by FAR 91.409 (f) (3) and Cessna 182 Series Maintenance Manual Rev. 20 1-Sept-2016, and Lycoming IO-540 series Operator's manual p/n 60297-10, 4th edition dated June 2006, and current FAA regulations and is approved for return to service. Inspections: 100 hour engine inspection / Cessna 182 inspection intervals

Authorized Signature

Ezra R. Olson for
Textron Aviation Repair Station X07R071Y

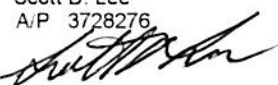
MAIL

DATE	1	Engine Log Book Entry, by Yi Lycoming
HC		
Complied with single engine oil change, with sa no defects noted. Installed new CH48110-1 filter check OK. Complied with 50 Hr. inspection item clamp inspection, no defects noted.		
I CERTIFY THAT THE ABOVE STATED MAINTEN/ WITH THE CURRENT REGULATION OF THE FED/ IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY RETURN TO SERVICE.		
Completed By Yingling Aviation P.O. Box 9248, Wichita, KS 67277 FAA CRS #YN8R621Y Phone 316-943-3246 Signature:  NAME: Jeffery A. Eckhardt		


1. Approving Civil Aviation Authority Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 5518143	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order Contract Invoice Number: 2602558		
6. Item: 14	7. Description: FILTER OIL	8. Part Number: CH48110-1	9. Quantity: 1	10. Serial Number: N/A	11. Status Work: New	
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: 001633						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approp of design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			13b. <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		13d. Authorized Signature: 		
13d. Name (Typed or Printed): MARILYN K. FARBER		13e. Date (dd/mm/yyyy): 02/11Mar/2017		13f. Name (Typed or Printed): 		
13g. 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 13b 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: 0052-000-012-9005

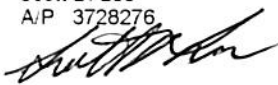
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			Red Cloud Aviation LLC 12021 N Hwy 99 Seminole, OK 74868 405-382-2180	
	Reg # N413CS Date: 05/14/2018 IO-540-AB1A5 Serial # L-36360-48E		TTAF: 171.1 Tach Time: 171.1 TSNEW: 171.1	
Performed 100 Hour Inspection IAW Lycoming and Cessna maintenance manual. Cylinder compression checks were as follows: Cyl 1 78/80, Cyl 2 74/80, Cyl 3 77/80, Cyl 4 76/80, Cyl 5 78/80, Cyl 6 79/80. Cleaned, Gapped, Tested, and rotated spark plugs upon reinstallation. Drained oil, checked filter for debris, no debris found and replaced with new Tempest AA48110-1, filled with 9 qts Phillips 20W50. Engine ground run, no leaks found. New and recurring AD's checked and complied with. All work done in accordance with current Lycoming and Cessna Maintenance Manuals, and FAR 43 Appendix D. This engine has completed an 100 Hour Inspection and has been determined to be in airworthy condition and is approved for return to service.				
Scott D. Lee A/P 3728276 				

MAINTENANCE RECORD

DATE	1	Engine Log Book Entry, by Yingling Aviation for: N413CS Cessna 18282413 Lycoming IO-540 S/N L-36360-48E		GNATUI E TYPE ER
HC		<p>Complied with single engine oil change, with sample. Drained oil and removed filter. Cut open filter and inspected, no defects noted. Installed new CH48110-1 filter and serviced with 9 qts Phillips 20W50 X/C. Ground run and leak check OK. Complied with 50 Hr. inspection items, no defects noted. Complied with AD2015-19-07 fuel line and clamp inspection, no defects noted.</p>		
		<p>I CERTIFY THAT THE ABOVE STATED MAINTENANCE AND/OR INSPECTION WAS PERFORMED IN ACCORDANCE WITH THE CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION, AND THE ARTICLE/AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND APPROVED FOR RETURN TO SERVICE.</p>		
		Completed By Yingling Aviation P.O. Box 9248, Wichita, KS 67277 FAA CRS #YN8R621Y Phone 316-943-3246 Signature:  NAME: Jeffery A. Eckhardt	Date Completed Work Order # Hobbs Hours Tach Time Aircraft Total Time	03-21-2017 19259 116.9 106.8 106.8

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			Scott D. Lee A/P 3728276 	

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	HOURS 10THS										
<div style="display: flex; align-items: center;"> <div> <p>1901 Embarcadero Rd. Ste. 100, Palo Alto, Ca 94303 (650)856-2030</p> <p>Engine Entry: COMPLETED 50 HOUR INSPECTION OF THE ENGINE USING THE CESSNA 182 MAINTENANCE MANUAL 50 HOUR CHECKLIST AS A GUIDE. DRAIN OIL AND SERVICED WITH 9 QTS OF 15W50 AEROSHELL OIL REMOVED AND REPLACED OIL FILTER WITH NEW P/N CH48110-1. CUT OPEN OLD FILTER NO EXCESSIVE CONTAMINANTS FOUND. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE 50 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND RETURN TO SERVICE</p> </div> </div>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DATE</td><td>10/22/2019</td></tr> <tr><td>REG #</td><td>N413CS</td></tr> <tr><td>TACH</td><td>273</td></tr> <tr><td>ETT</td><td>273</td></tr> </table>	DATE	10/22/2019	REG #	N413CS	TACH	273	ETT	273	
DATE	10/22/2019										
REG #	N413CS										
TACH	273										
ETT	273										
<div style="display: flex; align-items: center;"> <p>JASPER SARDALLA A&P /IA 3287387</p> </div>		<div style="display: flex; align-items: center;"> <div> <p>1901 Embarcadero Rd. Ste. 100, Palo Alto, Ca 94303 (650)856-2030</p> <p>Engine Entry: COMPLETED 100 HOUR INSPECTION OF THE ENGINE USING THE CESSNA 182 MAINTENANCE MANUAL 100 CHECKLIST AS A GUIDE. DRAIN OIL AND SERVICE ENGINE WITH 9 QTS OF AEROSHELL 15W50 OIL. REMOVED AND REPLACED OIL FILTER WITH NEW P/N CH48110-1. CUT OPEN OLD FILTER NO EXCESSIVE CONTAMINANTS FOUND. REMOVED AND REPLACED 6 SPARK PLUGS P/N REM40E. COMPLIED WITH AD2015-19-07 FUEL LINE INSPECTION PERFORMED POST INSPECTION ENGINE RUN UP MAG CHECK GOOD. SYSTEM CHECK GOOD. NO LEAKS FOUND. THIS AIRCRAFT IS IN AN AIRWORTHY CONDITION AND RETURNED TO SERVICE</p> </div> </div>									
<div style="display: flex; align-items: center;"> <p>JASPER SARDALLA A&P/IA 3287387</p> </div>		<div style="display: flex; align-items: center;"> <p>JASPER SARDALLA A&P/IA 3287387</p> </div>									

MAINTENANCE RECORD

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wo: WO_2081 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E January 17, 2020
Tach: 366.7

Installed Reiff Preheater, Standard System, per Reiff Installation instructions. Installed (1) TNC Connector - Straight, Installed (7) 01 - Adel Clamp, Installed (1) SL6 - Reiff Preheater Standard System.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2081.

Maximilian Ilizarov A&P 3925219 *Max Ilizarov*

West Valley Flying Club
1901 Embarcadero Rd Ste 100 Palo Alto, Ca 94303 (650)856-2030

DATE	2/12/2020
REG #	N413CS
TACH	361
ETT	361

Engine Entry:
COMPLETED 50 HOUR INSPECTION OF THE ENGINE USING THE CESSNA 182 MAINTENANCE MANUAL 50 HOUR CHECKLIST AS A GUIDE. DRAIN OIL AND SERVICED WITH 9 QTS OF 15W50 AEROSHELL OIL REMOVED AND REPLACED OIL FILTER WITH NEW P/N CH48110-1. CUT OPEN OLD FILTER NO EXCESSIVE CONTAMINANTS FOUND. COMPLIED WITH AD2015-19-07 FUEL INSPECTION LINE INSPECTION. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE 50 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND RETURN TO SERVICE

Jasper Sardalla
JASPER SARDALLA A&P /IA 3287387

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		

West Valley Flying Club
1901 Embarcadero Rd Ste 100 Palo Alto, Ca 94303 (650)856-2030

DATE	3/4/2020
REG #	N413CS
TACH	395
ETT	395

Engine Entry:
DRAIN OIL AND SERVICED WITH 9 QTS OF 15W50 AEROSHELL OIL REMOVED AND REPLACED OIL FILTER WITH NEW P/N CH48110-1. CUT OPEN OLD FILTER NO EXCESSIVE CONTAMINANTS FOUND. REMOVED AND REPLACED 6 BOTTOM SPARK PLUGS P/N REM40E

wo: WO_2218 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E April 14, 2020
Tach: 447.5

1. Complied with AD 15-19-07 by inspection of fuel lines and clamps, no discrepancies noted.
2. Removed and inspected 6 spark plugs, reinstalled with new gaskets. Installed (6) AN4027-1 - Spark plug gasket.
3. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
4. Obtained oil sample and sent to Blackstone for analysis.
5. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2218.

Jeffrey Fay A&P 2679315 *Jeffrey Fay*

Jasper Sardalla
JASPER SARDALLA A&P /IA 3287387

MAINTENANCE RECORD

wo: WO_2239 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E April 29, 2020
Tach: 540.3

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2239.

Maximilian Ilizarov A&P 3925219 *Max Ilizarov*

wo: WO_2255 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E May 21, 2020
Tach: 516.0

1. Adjusted magneto timing to spec per MM.
2. Complied with CMI SEL-74-06 by inspection of magneto impulse coupling pin. Verified magnetos N/A by S/N. Installed (4) SA638172 - Bushing Superior Continental, Installed (2) 649954 - Magneto Gasket.
3. Installed screw where missing on #2 cylinder valve cover.
4. Checked #2 EGT probe & harness continuity. Swapped #2 & #4 EGT probes.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2255.

Taylor Good A&P 3529105 *Taylor Good*

SIGNATURE,
TYPE
NUMBER

wo: WO_2274 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E May 28, 2020
Tach: 528.7 TSN: 528.7 Hobbs: 593.9

Replaced EGT sensor for cylinder #4 with new. Installed (1) 86317 - EGT Probe.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2274.

Maximilian Ilizarov A&P 3925219 *Max Ilizarov*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
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ENGINE MODEL: **Rossi Aircraft, Inc.**
IO-540-AB1A5
ENGINE S/N: L36360-48E Repair Station No. ZRSR378L
REG. NO: N413CS 1903 Embarcadero Rd
WORK ORDER: 4023 Palo Alto, CA 94303
Phone: 650-493-3326

DATE: 7/28/2020
A/C TSN: 615.2
ENG TT:
TSMOH:
TACH: 615.2

Engine Entries

Drained oil and serviced with 8 qts of AEROSHELL 15W50 oil, (2) LW16702 oil additives (per Lycoming Service Instruction No.1409C) and installed new CH48110-1 oil filter. Inspected old filter, solvent washed engine, run and leak check good.... C/W AD 2015-19-07 external fuel injector lines visual inspection checks good - found to be ok for operation - due next -8/1/2021 or Tach:715.2 which ever occurs first.

Maintenance Release

The aircraft and/or component(s) on N413CS was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 4023, Dated 7/28/2020.

DATE: 7/28/2020

SIGNED: *Alberto Rossi*

Work Order: 4023

Alberto Rossi
Certified Repair Station No. ZRSR378L

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wo: WO_2255 Engine Annual - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS LYCOMING, IO-540-AB1A5, S/N: L-36360-48E May 21, 2020
Tach: 516.0 TSN: 516.0

1. Performed annual inspection per Sierra Aero LLC Inspection Checklist. Compression check: (1) 78, (2) 74, (3) 64, (4) 78, (5) 78, (6) 74, (7) 74, (8) 74, (9) 74, (10) 74, (11) 74, (12) 74, (13) 74, (14) 74, (15) 74, (16) 74, (17) 74, (18) 74, (19) 74, (20) 74, (21) 74, (22) 74, (23) 74, (24) 74, (25) 74, (26) 74, (27) 74, (28) 74, (29) 74, (30) 74, (31) 74, (32) 74, (33) 74, (34) 74, (35) 74, (36) 74, (37) 74, (38) 74, (39) 74, (40) 74, (41) 74, (42) 74, (43) 74, (44) 74, (45) 74, (46) 74, (47) 74, (48) 74, (49) 74, (50) 74, (51) 74, (52) 74, (53) 74, (54) 74, (55) 74, (56) 74, (57) 74, (58) 74, (59) 74, (60) 74, (61) 74, (62) 74, (63) 74, (64) 74, (65) 74, (66) 74, (67) 74, (68) 74, (69) 74, (70) 74, (71) 74, (72) 74, (73) 74, (74) 74, (75) 74, (76) 74, (77) 74, (78) 74, (79) 74, (80) 74, (81) 74, (82) 74, (83) 74, (84) 74, (85) 74, (86) 74, (87) 74, (88) 74, (89) 74, (90) 74, (91) 74, (92) 74, (93) 74, (94) 74, (95) 74, (96) 74, (97) 74, (98) 74, (99) 74, (100) 74, (101) 74, (102) 74, (103) 74, (104) 74, (105) 74, (106) 74, (107) 74, (108) 74, (109) 74, 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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
8/19/20	652		Drained oil, replaced oil filter CH48110-1, added 8 qt. w100Plus, safetied drain & oil filter. AIP 3521052 William E. Monahan	
9/10/20	681	9	Drained oil, replaced oil filter CH48110-1, added 8qt. Aeroshell w100Plus, safetied drain & filter, C/W AD 2015-19-07 Fuel Lines inspection	William E. Monahan AIP 3521052
10/15/20	725	5	Drained engine oil, replaced oil filter P/N CH48110-1, added 8qt. w100Plus oil, safetied oil filter, closed drain,	William E. Monahan AIP 3521052
12/1/20	772		Drained engine oil, replaced oil filter P/N CH48110-1, added 8qt. w100Plus. safetied filter - C/W AD 2015-19-07 Fuel Line inspection - No defects noted	William E. Monahan AIP 3521052

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
8/19/20	652	Drained oil, replaced oil filter CH48110-1, added 8 qt. w100Plus, safetied drain & oil filter. AIP 3521052 William E. Monahan	
9/10/20	681	Drained oil, replaced oil filter CH48110-1, added 8qt. Aeroshell w100Plus, safetied drain & filter, C/W AD 2015-19-07 Fuel Lines inspection	William E. Monahan AIP 3521052
10/15/20	725	Drained engine oil, replaced oil filter P/N CH48110-1, added 8qt. w100Plus oil, safetied oil filter, closed drain,	William E. Monahan AIP 3521052
12/1/20	772	Drained engine oil, replaced oil filter P/N CH48110-1, added 8qt. w100Plus. safetied filter - C/W AD 2015-19-07 Fuel Line inspection - No defects noted	William E. Monahan AIP 3521052

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
November 11, 2020	747.1	Replaced alternator with new. Installed (1) ASG12000-3-PMA - Alternator, S/N: H-U101181. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2542. Taylor Good A&P 3529105	
January 14, 2021	884.9	1. Re-secured oil return lines from rocker box to oil sump. 2. Removed cylinder #6 PN: LW-13870 SN: NOV6493-11976 and shipped to Victor Aviation in Palo Alto for repair per WO#17738. Re-installed per Lycoming MM. Installed (2) RA77611 - Rapco Gasket, Installed (1) LW-12272 - LYCOMING SHROUD TUBE LOCKPLATE. 3. Replaced spark plugs with new. Installed (12) UREM38E - Spark plug. 4. Removed Slick magnetos PN6351, SN: 15060588 & 15060589. Sent to Aircraft Electrical Components, Inc. to disassemble, clean, inspect & C/W 500 Hour Inspection & Slick SB3-80B per WO86750 & WO86751. Re-installed magnetos after inspection and repairs completed. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2620. Bryan Whitfield A&P 2549302	
January 14, 2021	884.9	1. Performed annual inspection per Sierra Aero LLC Inspection Checklist. Compression check: 1). 76, 2). 76, 3). 68, 4). 76, 5). 70, 6). 12/80. Installed (12) AN4027-1 - Spark plug gasket. 2. Drained oil and removed filter. Cut filter and inspected medium, no discrepancies noted. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample, Installed (1) AA48110 - Tempest Oil Filter, Installed (8) Phillips - 20W50 Oil. 3. Ran engine, leak check good. Researched AD's; see attached AD Compliance Report. I certify that this ENGINE has been inspected IAW a 100 HR/ANNUAL inspection and was determined to be in an airworthy condition on this date. -END- Details of work performed are on file with Sierra Aero LLC under work order: WO_2620. Bryan Whitfield IA 2549302	

wo: WO_2683 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E January 22, 2021
HOBBS: 904.4 TACH: 804.4

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (8) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2683.

Bryan Whitfield A&P 2549302 *[Signature]*

wo: WO_2741 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E March 9, 2021
HOBBS: 948.5 TACH: 841.6

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2741.

Taylor Good A&P 3529105 *[Signature]*

WARNING

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 180 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in the Champion/Slick L-1318 Document in the F-1100 Master Service Manual. For LASAR® Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No. 6351
Magneto Serial No. 21021589
Date of Installation 4/22/2021

wo: WO_2806 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E April 22, 2021
HOBBS: 1010.6 TACH: 897.6

1. Replaced LH magneto with new. Installed (1) 08-06351 - Slick Magneto 6351, S/N: 21021589, Installed (2) LW12681 - Magneto Gasket.
2. Adjusted RH magneto timing.
3. Performed check run, no discrepancies noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2806.

Bryan Whitfield A&P 2549302 *[Signature]*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		

wo: WO_2802 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E April 16, 2021
HOBBS: 1010.3 TACH: 897.4

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample.
3. Ran engine, leak check good.
4. Complied with AD 15-19-07 by inspection of fuel lines and clamps, no discrepancies noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2802.

Taylor Good A&P 3529105 *[Signature]*

wo: WO_2894 Engine - page 1 of 1

SIERRA AERO
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E June 02, 2021
HOBBS: 1055.3 TACH: 935.8

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_2894.

Maximilian Iltzarov A&P 3925219 *[Signature]*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		

wo: WO_2952 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161 - 530-359-8751

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E July 16, 2021
 HOBBS: 1097.3 TACH: 973.4 TSN: 973.4

1. Performed annual inspection per Sierra Aero LLC Inspection Checklist. Compression check: 1). 67, 2). 70, 3). 60, 4). 70, 5). 70, 6). 70/80. Installed (12) M-674 - Spark plug gasket.
2. Drained oil and removed filter. Cut filter and inspected medium, no discrepancies noted. Obtained oil sample and sent to Blackstone for analysis. Installed (1) Blackstone - Oil Sample, Installed (1) AA48110 - Tempest Oil Filter, Installed (8) Phillips - 20W50 Oil.
3. Ran engine, leak check good.

Researched AD's; see attached AD Compliance Report. I certify that this ENGINE has been inspected IAW a 100 HR/ANNUAL inspection and was determined to be in an airworthy condition on this date. -END- Details of work performed are on file with Sierra Aero LLC under work order: WO_2952.

Bryan Whitfield IA 2549302 *Bryan Whitfield*

wo: WO_3027 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E August 27, 2021
 HOBBS: 1152.2 TACH: 1022.0

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) Aeroshell - 15W50 Oil, Installed (1) AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3027.

Taylor Good A&P 3529105 *Taylor Good*

wo: WO_3079 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E October 13, 2021
 HOBBS: 1191.6 TACH: 1058.0

1. Removed and replaced EGT probe on cylinder #5 with new. Installed P/N 86317 - EGT Probe.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3079.

Bryan Whitfield A&P 2549302 *Bryan Whitfield*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		

wo: WO_3101 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E October 20, 2021
 HOBBS: 1277.6 TACH: 1072.5

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) P/N Aeroshell - 15W50 Oil, Installed P/N AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis.
3. Ran engine, leak check good.
4. Complied with AD 15-19-07 by inspection of fuel lines and clamps, no discrepancies noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3101.

Bryan Whitfield A&P 2549302 *Bryan Whitfield*

wo: WO_3187 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E December 21, 2021
 HOBBS: 1263.6 TACH: 1121.3

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) P/N Aeroshell - 15W50 Oil, Installed P/N AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis. Installed P/N Blackstone - Oil Sample.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3187.

Bryan Whitfield A&P 2549302 *Bryan Whitfield*

wo: WO_3242 Engine - page 1 of 1

Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161

N413CS Lycoming IO-540-AB1A5, S/N: L-36360-48E February 01, 2022
 HOBBS: 1323.7 TACH: 1176.0

1. Performed oil change; drained oil and removed filter. Cut filter and inspected, no discrepancies noted. Installed (7) P/N Aeroshell - 15W50 Oil, Installed P/N AA48110 - Tempest Oil Filter.
2. Obtained oil sample and sent to Blackstone for analysis.
3. Ran engine, leak check good. -END-

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3242.

Maximilian Ilizarov A&P 3925219 *Maximilian Ilizarov*

wo: WO_3242 Airframe - page 1 of 1

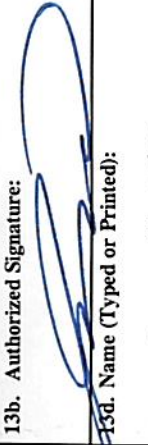
Sierra Aero LLC - 10356 Truckee Airport Rd, Hangar #1 - Truckee, CA 96161


N413CS TEXTRON AVIATION INC, 182T, S/N: 18282413 February 01, 2022
 HOBBS: 1323.7 TACH: 1176.0 TSN: 1176.0

Complied with AD 15-19-07 by inspection of fuel injector lines and clamps, no discrepancies noted.


With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Sierra Aero LLC under work order: WO_3242.

Maximilian Ilizarov A&P 3925219 *Maximilian Ilizarov*

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: H-U101181	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL 36108 PQ1383CE-D					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ALTERNATOR **** END ****	ASG12000-3-PMA	1	H-U101181	NEW
12. Remarks: AIRWORTHINESS APPROVAL- PARTS FOR PMA ELIGIBILITY SEE WWW.HARTZELL-AERO/PMA/					
13a. Certifies the items identified above were manufactured in conformity to:		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12			
<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.		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.: ODA-100082-CE		14b. Authorized Signature:	
13d. Name (Typed or Printed): James Murphy		13e. Date (dd/mm/yyyy): 15-Oct-2020		14c. Approval/Certificate No.:	
				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 Block 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.					

1. Approving Civil Aviation Authority/Country: FAA/United States		2.		3. Form Tracking Number: Control 17738	
<h2 style="text-align: center;">AUTHORIZED RELEASE CERTIFICATE</h2> <p style="text-align: center;">FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</p>					
4. Organization Name and Address: Victor Aviation Service, Inc. 2415 Embarcadero Way, Palo Alto CA 94303 Certificate Number BJ3R399L					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Lycoming cylinder	LW-13870	1	NOV6493-119761	Repaired
12. Remarks: Cleaned and inspected cylinder, ground intake valve and valve seats, lapped valves, honed cylinder, fitted new piston rings and assembled cylinder with new exhaust valve, springs, piston, and keepers.					
13a. Certifies the items identified above were manufactured in conformity to:			14a. <input checked="" type="checkbox"/> 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: XXXXXXXXXXXXXXXXXXXXXXXXXXXX		13c. Approval/Authorization No.: XXXXXXXXXXXXXXXXXXXXXXXXXXXX		14b. Authorized Signature: 	
13d. Name (Typed or Printed): XXXXXXXXXXXXXXXXXXXXXXXXXXXX		13e. Date (dd/mm/yyyy): XXXXXXXXXXXXXXXXXXXXXXXXXXXX		14c. Approval/Certificate No.: BJ3R399L	
		14d. Name (Typed or Printed): John Pava		14e. Date (dd/mm/yyyy): 11/JAN/2021	
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.					

L/H MAG

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, Airworthiness Approval Tag		3. Form Tracking Number: 86750	
4. Organization Name and Address: Aircraft Electrical Components, Inc. (CRS# S7HR883J) Nevada Repair Center 2482 Progress Drive Redding, CA 96001		5. Work Order/Contract/ Invoice Number: CUST PO: 0317			
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Magneto	6351	1	15060588	Repaired
12. Remarks: Performed 500 Hour Inspection in accordance with Manufacturer Manual L-1363G, Rev G dated Oct 30 2017 and SB2-80-C.					
Full details of work carried out per Work Order No 86750 attached.					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition safe for operation <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. [X] 14 CFR 43.9 Return to Service [] 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: Not Applicable	13c. Approval Authorization No.: Not Applicable	14b. Authorized Signature: 		14c. Approval/Certificate Number: S7HR883J	
13d. Name (Typed or Printed): Not Applicable	13e. Date (dd/mm/yyyy): Not Applicable	14d. Name (Typed or Printed): Carl E. Schutte		14e. Date (dd/mm/yyyy): 22/Dec/2020	
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 ensure 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.					

WORK ORDER

DATE	CUSTOMER PO#	WORK ORDER #		
12/22/20	0317	86750		
Mfr: Slick	Desc.: Magneto	Part No.: 6351	Serial No.: 15060588	Work Order No.: 86750

Received Magneto for 500 Hour Inspection:

1 ea P/N 6351 S/N 15060588

Disassemble, clean and inspect. Noted both rivets loose on impulse coupling – fails per SB2-19A. C/W 500 Hour Inspection per Section 3.3 of Manufacturer Manual L-1363G, Rev G dated Oct 30 2017 and SB2-80-C. Distributor block reconditioned. Parts replaced as listed. Magneto assembled, internally timed and tested.

The following parts have been replaced in this unit:

1 ea A-13081 Contact & Cam Kit
1 ea AM-3215 Carbon Brush

In addition to 500 Hour Inspection the following was required:

1 ea M-3333 Impulse Coupling

AD / SB STATUS:


AD 81-16-05 Coil – N/A MAG MOD #
SB1-80-A Soft Rivets (447, 600, 4200 & 6200) AD 80-06-05 – N/A MAG MOD #
SB2-80-C Maintenance Schedule (400/600, 4000/6000, 4200/6200, 4300/6300) – 500 HOUR INSPECTION
SB3-80-B Broken Flanges, All Magneto – SUPPLY COPY TO CUSTOMER
SB1-83-A Index Plate – IN COMPLIANCE
SB1-86-C Impulse Coupling Inspection – C/W INSPECTION; INSTALLED NEW IMPULSE COUPLING DOM 11-20-20
SB1-88-A / AD 88-25-04 Insp Models 6220 & 6224 Pressurized – N/A MAG MOD #
SB1-88-B / AD 88-25-04 Insp Models 6300 Pressurized – N/A MAG MOD #
SB2-88-A Bearing Inspection (4200) – N/A MAG MOD #
SB3-88-A Bearing Inspection (6200) – N/A MAG MOD #
SB1-89-B Maintenance Schedule (Single Ignition Sys) – N/A APPLICATION
SB1-95 Replacement (4000 & 4100) - N/A MAG MOD #
SB1-98-A / AD 99-04-04 Impulse Coupling Inspection (6200 & 6300) ea 250 Hrs. – C/W, INSTALLED NEW M-3333 11-20-20
SB1-00C / AD 2011-26-07 (Some 6300) Impulse Pin – N/A MAG MOD #
SB1-07 Insp Mag Driver / Torque Requirements (4309, 4310) – N/A MAG MOD #
SB2-07 Insp Mag Driver / Torque Requirements (Lasar) – N/A MAG MOD #
SB3-07 Impulse Coupling Assy (Some 4300) – N/A MAG MOD #
SB2-08B Contact Cam 4300/6300 & Lasar – C/W INSPECTION INSTALLED NEW, PMA MFR, NFA
SB3-08B Carbon Brush or Dist Block 4300/6300 & Lasar – C/W INSPECTION INSTALLED NEW, PMA MFR
SB1-12 Defective Contacts (M3081 Contact Kits) – N/A, INSTALLED NEW, PMA CONTACTS
SB-009 Tempest Contacts – N/A DATE CODE; A-13081 11-2-20
SB1-15A Distributor Gear Assy (4 Cyl) – N/A MAG MOD #
SB03-7A IO240 Series Mag Drive Gear (4309, 4310) – N/A MAG MOD #
SL 1-17 Drive End Nut Torque (Impulse) – C/W
SB1-19 Impulse Coupling Stop Pin – N/A MAG SERIAL #
SB2-19A Impulse Coupling – C/W, INSTALLED NEW IMPULSE COUPLING; M-3333 MFR DATE 11-20-20

2482 Progress Drive
Redding, CA 96001-3235
(530) 221-4397
(530) 221-0660 fax
Repair Station #S7HR883J

The aircraft component identified above was repaired and Inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.
FAA REPAIR STATION NO. S7HR883J

Inspector: 

R/H MAG.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, Airworthiness Approval Tag		3. Form Tracking Number: 86751	
4. Organization Name and Address: Aircraft Electrical Components, Inc. (CRS# S7HR883J) Nevada Repair Center 2482 Progress Drive Redding, CA 96001		5. Work Order/Contract/ Invoice Number: CUST PO: 0317			
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Magneto	6351	1	15060589	Repaired
12. Remarks: Performed 500 Hour Inspection in accordance with Manufacturer Manual L-1363G, Rev G dated Oct 30 2017 and SB2-80-C.					
Full details of work carried out per Work Order No 86751 attached.					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition safe for operation <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. [X] 14 CFR 43.9 Return to Service [] 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: Not Applicable	13c. Approval Authorization No.: Not Applicable	14b. Authorized Signature: 		14c. Approval/Certificate Number: S7HR883J	
13d. Name (Typed or Printed): Not Applicable	13e. Date (dd/mm/yyyy): Not Applicable	14d. Name (Typed or Printed): Carl E. Schutte		14e. Date (dd/mm/yyyy): 22/Dec/2020	
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 ensure 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.					

WORK ORDER

DATE	CUSTOMER PO#	WORK ORDER #
12/22/20	0317	86751
Mfr: Slick	Desc.: Magneto	Part No.: 6351
Serial No.: 15060589	Work Order No.: 86751	

Received Magneto for 500 Hour Inspection:

1 ea P/N 6351 S/N 15060589

Disassemble, clean and inspect. Noted both rivets loose on impulse coupling – fails per SB2-19A. C/W 500 Hour Inspection per Section 3.3 of Manufacturer Manual L-1363G, Rev G dated Oct 30 2017 and SB2-80-C. Distributor block reconditioned. Parts replaced as listed. Magneto assembled, internally timed and tested.

The following parts have been replaced in this unit:

1 ea A-13081 Contact & Cam Kit
1 ea AM-3215 Carbon Brush

In addition to 500 Hour Inspection the following was required:

1 ea M-3333 Impulse Coupling

AD / SB STATUS:

AD 81-16-05 Coil – N/A MAG MOD #
SB1-80-A Soft Rivets (447, 600, 4200 & 6200) AD 80-06-05 – N/A MAG MOD #
SB2-80-C Maintenance Schedule (400/600, 4000/6000, 4200/6200, 4300/6300) – 500 HOUR INSPECTION
SB3-80-B Broken Flanges, All Magnetos – SUPPLY COPY TO CUSTOMER
SB1-83-A Index Plate – IN COMPLIANCE
SB1-86-C Impulse Coupling Inspection – C/W INSPECTION; INSTALLED NEW IMPULSE COUPLING DOM 11-20-20
SB1-88-A / AD 88-25-04 Insp Models 6220 & 6224 Pressurized – N/A MAG MOD #
SB1-88-B / AD 88-25-04 Insp Models 6300 Pressurized – N/A MAG MOD #
SB2-88-A Bearing Inspection (4200) – N/A MAG MOD #
SB3-88-A Bearing Inspection (6200) – N/A MAG MOD #
SB1-89-B Maintenance Schedule (Single Ignition Sys) – N/A APPLICATION
SB1-95 Replacement (4000 & 4100) - N/A MAG MOD #
SB1-98-A / AD 99-04-04 Impulse Coupling Inspection (6200 & 6300) ea 250 Hrs. – C/W, INSTALLED NEW M-3333 11-20-20
SB1-00C / AD 2011-26-07 (Some 6300) Impulse Pin – N/A MAG MOD #
SB1-07 Insp Mag Driver / Torque Requirements (4309, 4310) – N/A MAG MOD #
SB2-07 Insp Mag Driver / Torque Requirements (Lasar) – N/A MAG MOD #
SB3-07 Impulse Coupling Assy (Some 4300) – N/A MAG MOD #
SB2-08B Contact Cam 4300/6300 & Lasar – C/W INSPECTION INSTALLED NEW, PMA MFR, NFA
SB3-08B Carbon Brush or Dist Block 4300/6300 & Lasar – C/W INSPECTION INSTALLED NEW, PMA MFR
SB1-12 Defective Contacts (M3081 Contact Kits) – N/A, INSTALLED NEW, PMA CONTACTS
SB-009 Tempest Contacts – N/A DATE CODE; A-13081 11-3-20
SB1-15A Distributor Gear Assy (4 Cyl) – N/A MAG MOD #
SB03-7A IO240 Series Mag Drive Gear (4309, 4310) – N/A MAG MOD #
SL 1-17 Drive End Nut Torque (Impulse) – C/W
SB1-19 Impulse Coupling Stop Pin – N/A MAG SERIAL #
SB2-19A Impulse Coupling – C/W, INSTALLED NEW IMPULSE COUPLING; M-3333 MFR DATE 11-20-20

2482 Progress Drive
Redding, CA 96001-3235
(530) 221-4397
(530) 221-0660 fax
Repair Station #S7HR883J

The aircraft component identified above was repaired and Inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.
FAA REPAIR STATION NO. S7HR883J

Inspector: 

Airworthiness Directive Compliance Report

Date of Report: 07/16/2021

Tail Number: **N413CS**

Prepared For:

Manufacturer/ Model: Textron (Cessna) 182T

Single / Left Engine: Lycoming IO-540-AB1A5

Right Engine:

Single / Left Propeller: McCauley B3D36C431

Right Propeller:

Notes:



Prepared By:

Bryan Whitfield
Sierra Aero LLC
10356 Truckee Airport Rd, Hangar #1
Truckee, CA 96161
530-359-5751


Preparer's Signature

07/16/2021 Make Model
Textron (Cessna) 182T

Tail #
N413CS

Serial #
182-82413

Airworthiness Direct
Compliance Rep

Airframe Hours: Tach: 973.4

Misc:

Engine: Lycoming IO-540-AB1A5

S/N: I-36360-48E

Hours:

Propeller: McCauley B3D36C431

S/N: 150645

Hours:

AD#	Category	Subject	Amend #	Eff Date	Rec	Remarks
Date/Hours Compliance	Next Due	Name	Signature	Cert#		

Airframe: Textron (Cessna) 182T

04-15-18	Airframe	KAP 140 Autopilot	39-13752	09/12/04		N/A by Serial No.
		Bryan Whitfield		2549302IA		
05-05-53 R1	Airframe	Flight Control System Problems	39-14021	03/21/05		N/A by Serial No.
		Bryan Whitfield		2549302IA		
05-13-10	Airframe	Incorrect Circuit Breakers	39-14147	08/09/05		N/A by Serial No.
		Bryan Whitfield		2549302IA		
07-05-10	Airframe	Crew Seat Back Cylinder Lock	39-14971	04/11/07		N/A by Serial No.
		Bryan Whitfield		2549302IA		
07-08-03	Airframe	Fuel Hose Connections	39-15020	05/02/07		N/A by Serial No.
		Bryan Whitfield		2549302IA		
08-02-18	Airframe	BRS Parachute System Pick-Up Collar Support and Retaining Screws	39-15348	02/28/08		N/A by Date
		Bryan Whitfield		2549302IA		
08-05-09	Airframe	Seat Base/ Back Attach Brackets	39-15403	04/08/08		N/A by Serial No.
		Bryan Whitfield		2549302IA		
08-10-02	Airframe	Alternate Static Air Source Selector Valve	39-15508	05/12/08		N/A by Serial No.
		Bryan Whitfield		2549302IA		
08-26-10	Airframe	Alternate Static Air Source Selector Valve	39-15776	01/05/09		N/A by Date
		Bryan Whitfield		2549302IA		
13-11-11	Airframe	Engine Oil Pressure Switch	39-17471	08/01/13	Yes	N/A by Serial No.
		Bryan Whitfield		2549302IA		

Engine: Lycoming IO-540-AB1A5

63-14-03	Engine	Oil Pump Drive Shaft	583	07/06/63	Yes*	N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
66-20-04	Engine	Oil Filter Adapter Gasket	39-277	08/27/66		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
75-08-09	Engine	Oil Pump Drive Shaft and Impeller	39-3013	08/18/77		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
75-09-15	Engine	Bendix Fuel Injector Flow Divider Cover Gasket	39-2187	04/30/75		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
78-23-10	Engine	Bendix RSA Series Fuel Injector Bellows Seal	39-3333	11/07/78		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
79-04-05	Engine	Bendix RSA Series Fuel Injectors Diaphragm	39-3570	09/26/79		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
92-12-05	Engine	Piston Pin Failure	39-8265	07/10/92		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
93-11-11	Engine	Diaphragm Fuel Pumps Overhauled (by AAI)	39-8584	06/21/93		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
96-09-10	Engine	Oil Pump Impeller Failure	39-9586	07/15/96		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
96-23-03	Engine	High Pressure Fuel Pumps	39-9826	12/17/96		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
98-17-11	Engine	Crankshafts Installed by Nelson Balancing Service	39-10713	10/19/98		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
02-19-03	Engine	Crankshaft Failure	39-12883	09/20/02		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
03-14-03	Engine	Rotary Fuel Pump Leaks	39-13222	08/14/03	Yes*	N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
04-05-24	Engine	Crankshaft Gear Retaining Bolts	39-13519	03/30/04		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
04-10-14	Engine	Crankshaft Gear Retaining Bolt	39-13644	06/25/04		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
05-19-11	Engine	Crankshaft Failures	39-14276	10/21/05		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
06-12-07	Engine	ECI Cylinder Assemblies	39-14632	07/11/06		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
07-04-19 R1	Engine	Superior Air Parts Cylinder Assemblies	39-15005	05/07/07		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
09-02-03	Engine	RSA-5 or RSA-10 Series - Fuel Injection Servo Plug Gasket	39-15793	02/09/09	Yes*	N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		

09-26-12	Engine	ECI Cracked Cylinder Assemblies	39-16151	02/04/10	Yes	N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
12-03-06	Engine	AVStar Fuel Servo Diaphragm	39-16947	02/24/12		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
12-19-01	Engine	Crankshaft Replacement	39-17196	10/24/12		N/A by Engine Manufacture Date
		Bryan Whitfield		2549302IA		
15-19-07	Engine	Fuel Injector Fuel Lines and Clamps	39-18269	11/03/15	Yes	07/16/2021 @ Tach: 973.4 - C/W by inspection of fuel lines and clamps. No discrepancies notes. Due every 110 hrs. or whenever fuel injector lines/clamps disconnected, moved or loosened.
07/16/2021 @ Tach: 973.4		Due @ Tach: 1083.4, or whenever fuel injector lines/clamps disconnected, moved or loosened and/or every annual		2549302IA		
17-16-11	Engine	Connecting Rod Failure	39-18988	08/15/17		N/A by Serial No.
		Bryan Whitfield		2549302IA		

Propeller: McCauley B3D36C431

05-14-11	Propeller	Southern California Propeller Serviced Propellers	39-14188	08/17/05		N/A by no services performed by Southern California Propeller
		Bryan Whitfield		2549302IA		

Appliance: Propeller - Governors

20-19-06	Appliance	Governor - Variant Idler Gear Bearing PN A-20028	39-21248	11/03/20		N/A by propeller type - constant speed
		Bryan Whitfield		2549302IA		