



ENGINE MAINTENANCE RECORD

N958DC

AIRCRAFT SERIAL AND REGISTRATION 18280300 ~~42389Z~~

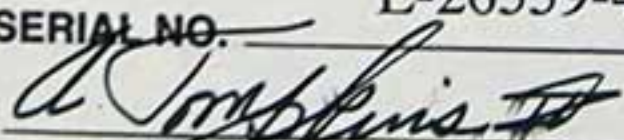
ENGINE MODEL AND SERIAL IO-540-AB1A5 2-210539-48A

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>98</u>				

NEW RECIPROCATING ENGINE CERTIFICATE

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

MODEL IO-540-AB1A5 SERIAL NO. L-26559-48A
 DATE 8-11-98 
 (AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

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

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>98</u> 9/9	0	0	Engine model IO-540-AB1A5, S/N <u>21559-48A</u> has been installed on aircraft # <u>18280360</u> . This engine serviced with Phillips Aviation oil type M 20W50 weight.	FAA APPROVED UNDER FAR 21 SUBPART J The Cessna Aircraft Co. Delegation Option Manufacturer OE-1 <i>Michael D. [Signature]</i> Executive Engineer By <i>[Signature]</i> Dick [Name]
6-16 99	25.3		Changed oil + Filter. Serviced with 9 qts. W100 Aeroshell. Run-up no leaks.	Howard Hargrove CRS1B1R931E
9-7-99	97.	0	Change oil + Filter. Inspected old filter for metal- normal. Serviced with 9 qts W100 Aeroshell. Run-up leak check - good.	Howard Hargrove CRS1B1R931E
			/	

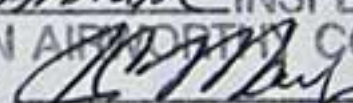
MAINTENANCE RECORD

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	HOURS	10ths		
19 <u>99</u> 10-1-99	99	7	INSPECTED IAW CESSNA 182S INSPECTION CHECKLIST. CHANGED OIL & FILTER. INSPECTED OLD FILTER FOR METAL - NORMAL. PULLED SUCTION SCREEN CHECKED FOR METAL - NORMAL. SERVICED WITH 4 QTS. XEROSHELL OIL. COMPRESSION CHECK: #1-76, #2-74, #3-75, #4-74, #5-74, #6-74. CLEANED, GAPPED, TESTED & ROTATED SPARK PLUGS. C/W S.B.	
			99-71-01 R2 BY VISUAL INSPECTION OF OIL FILTER & SUCTION SCREEN - NORMAL. TIMED LEFT & RIGHT MXGS. TO ENGINE. C/W X/D 43-02-05 BY VISUAL INSPECTION OF FUEL INJECTOR LINE & ALL CLAMPS. NO DEFECTS NOTED AT THIS TIME. NEXT DUE: 199.7 OR AT ANNUAL. RUN UP OPS. CHECK - GOOD, NO LEAKS NOTED.	
			CHECKED X/Ds TO 99-19 CD ROM.	<p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p>AUTHORIZED SIGNATURE <u>[Signature]</u></p> <p>DATE <u>10-1-99</u> RECORDED TIME <u>99.7</u> TT <u>99.7</u></p> <p>DULLES AVIATION INC. CRS. IBIR931E. WO #: <u>4501</u></p> <p>MANASSAS REGIONAL AIRPORT, MANASSAS, VA</p>
2-7-00	202	9	CHANGED OIL & FILTER. INSPECTED OLD FILTER FOR METAL - NORMAL. SERVICED WITH 4 QTS. XEROSHELL W80 OIL. RUN UP CHECK FOR LEAKS - NONE FOUND. INSTALLED NEW PUSH ROD TUBE SEALS ENTIRE SIDE #5 CYL. NO LEAKS NOTED.	
				<p>REPAIRED / INSPECTED AND APPROVED FOR RETURN TO SERVICE W/O # <u>4757</u></p> <p>DULLES AVIATION INC. CRS IBIR931E</p> <p>DATE <u>2-7-00</u> <u>[Signature]</u></p> <p style="text-align: right;">AUTHORIZED SIGNATURE</p>

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	DATE	DULLES AVIATION INC. / CHS # BIR931E FOR RETURN TO SERVICE AND REPAIRED / INSPECTED AND APPROVED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths				
2000 6/14	299	4	CHANGED OIL & FILTER INS. OF OLD PAPER FILTER FOUND OK. INSTALLED 99TS OF W100 d.s. OIL THEN WASHED ENG & RUN-UP NO LEAKS. T.C. Smith 16360674 (ALSO RESNAGGED OIL RETURN LINE HOSE NO 3 rd CYL)			
8-14-00	343	5	INSTALLED NEW PUSHROD TUBE SEALS #5 CYL, USED 13006 ON INBOARD SEALS INSTALLED NEW ROCKER BOX COVER GASKETS ON #3&5 CYLS. RUN VPOBECK FOR LEAKS - NONE FOUND.	8-14-00	REPAIRED / INSPECTED AND APPROVED FOR RETURN TO SERVICE W/O # 5158 DULLES AVIATION INC. / CHS # BIR931E DATE 8-14-00 Powell, Mark	AUTHORIZED SIGNATURE <div style="text-align: center; font-size: 2em; font-family: cursive;"> [Signature] </div>

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2000 19 10/13/00	370	2	RAN ENGINE. DRAINED OIL + REMOVED AND CUT OPEN OIL FILTER FOR INSPECTION. IAW 99-71-01R2 NO DEFECTS NOTED NEXT DUE @ 420.2 INSTALLED NEW OIL FILTER + SERVICED ENGINE WITH 9QTS AEROSHELL W100 COMPRESSION TEST: #1 $\frac{74}{80}$ #2 $\frac{74}{80}$ #3 $\frac{73}{80}$ #4 $\frac{74}{80}$ #5 $\frac{74}{80}$ #6 $\frac{74}{80}$	
			REPLACED ALL SPARK PLUGS WITH NEW UNITS. COMPLIED WITH SB 00-73-01A1 FUEL INJECTION LINES + LAMPS. NO DEFECTS NOTED NEXT DUE @ TACH 470.2 / ANNUAL ADL AD'S CURRENT THRU 2000-19. WASHED ENGINE + RAN. NO LEAKS NOTED.	
I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. AUTHORIZED SIGNATURE  DATE <u>10/13/00</u> RECORDED TIME <u>370.2</u> TT <u>370.2</u> DULLES AVIATION INC. CHS. IBIH931E. WO #: <u>5269</u> MANASSAS REGIONAL AIRPORT, MANASSAS, VA				

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
12/06/00	419.8		CHANGED ENG OIL & FILTER, ADDED 9 qts. A/S PO, INSPECTED FILTER W/O # 5343 <i>Charlie Schenkley</i> CRS IBIR931E	
2/27/01	449.8		CHANGED OIL & FILTER, INSPECTED FILTER, ADDED 8 qts. A/S POW. REPAIRED / INSPECTED AND APPROVED FOR RETURN TO SERVICE W/O # <u>5575</u> DULLES AVIATION INC. / CRS IBIR931E. DATE <u>2/27/01</u> <i>Charlie Schenkley</i> AUTHORIZED SIGNATURE	
5/25/01	520.2		CHANGED OIL & FILTER, INSPECTED FILTER, ADDED 9 qts. A/S KOW-SO CLEANED GAPED, ROTATED SPARK PLUGS. Cth Diff-comp. #1-75/80, #2-77/80 #3-77/80, #4-74/80, #5-79/80, #6-74/80. GAS R/R INDUCTION FILTER. REPAIRED / INSPECTED AND APPROVED FOR RETURN TO SERVICE W/O # <u>5738</u> DULLES AVIATION INC. / CRS IBIR931E. DATE <u>5/25/01</u> <i>Charlie Schenkley</i> AUTHORIZED SIGNATURE	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
7/14 01	582.	8	CHANGED OIL & FILTER, INSPECTED FILTER, ADDED 9 QTS. A/S 100W-50 REPAIRED / INSPECTED AND APPROVED FOR RETURN TO SERVICE W/O # <u>5820</u> DULLES AVIATION INC. / CRS IBIR931E. DATE <u>7-11-01</u> <u>Extremely</u>	
9/29/01	635.	6	CHANGED OIL & FILTER, INSPECTED FILTER, ADDED 9 QTS. A/S 100W-50 AUTHORIZED SIGNATURE <u>Charlie Sheerley CRS IBIR931E</u>	
11-8-01	680.	6	DRAINED ENGINE OIL, REPLACED FILTER, SERVICED WITH 9QTS AERO SHELL 80 OPENED AND INSPECTED OLD FILTER. PER S.B. 99-71-01 RZ NO DEFECTS NOTED. C/W CYL COMP TEST #1 75/80 #2 75/80 #3 79/80 #4 77/80 #5 76/80 #6 78/80. REPLACED #2 CYLINDER AFTER REPAIR FOR LOW COMP. / A/W LYCOMING MAINT INSTRUCTIONS. FUNCTIONAL / LEAK TEST OK. C/W A.D. 93-02-05 BY VISUAL INSPECTION, NO DEFECTS NOTED. MAX DUE A.O.'S HAVE BEEN C/W THRU 2001-21. CLEANED, GAPPED, TESTED, ROTATED SPARK 780.6 PLUGS. I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AN <u>AWORTHY</u> CONDITION. AUTHORIZED SIGNATURE <u>JoAnne K. Rogers</u> DATE <u>11-08-01</u> RECORDED TIME <u>680.6</u> TT <u>680.6</u> DULLES AVIATION INC. CRS. IBIR931E. WO #: <u>6042</u> MANASSAS REGIONAL AIRPORT, MANASSAS, VA	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
12/18/01	701		REMOVED ENGINE FOR REPAIR ON #5 CYL EXH. CAON FOLLOWER. Chauli Schorndoby CR5FBFR931E1	
2002 1-21	701		DISASSEMBLED AND INSPECTED FOR DAMAGE AND POSSIBLE METAL CONTAMINATION FROM BROKEN HYD BODY #5 CYL EX BOSS. CLEANED AND INSPECTED ENGINE. RE-ASSEMBLED WITH NEW HYD BODIES (1200) NEW HYD SOCKET AND PLUNGER ASSY #5 CYL EX., NEW MAIN BAGS, NEW PISTON PIN PLUGS PIN 7219 & INSTALLED PER LHC. SI1267C. NEW INTAKE HOSES, SEALS, GASKETS & O-RINGS. CYL'S (600) OVERHAULED AND NEW RINGS FIT TO BARRELS. ITEMIZED PARTS LIST AND YELLOW TAGS BACK OF LOG BOOK.	

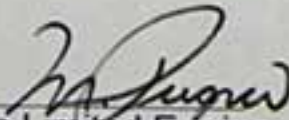
Pertinent details of the repair are on file at this agency under work order No. 020119
 Date JAN 21 '02
 Signed Kathy Smith
 for Columbia Aircraft Services, Inc.
 Bloomsburg, Penna.
 FAA R.S. JM2R930K

LOG BOOK TIME TO CONTINUE FROM 701 HRS.
 C/W AD93-02-05 BY INSPECTING F.I. LINES.
 NO DEFECTS FOUND IN LINES OR CRAMPS.
 NEXT DUE AT 100HR T.I.S. OR REMARK OF LINES.

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS	10ths		
			<p>Date: 1/29/2002, Aircraft: N2389Z, Type: 182S, S/N: 18280360, Hobbs: 0.0, Tach: 701.8, Total Time: 701.8 Installed this engine per cessna m/m reusing hardware oil lines and mounts. oil lines and cooler flushed. Serviced with 8qts. aeroshell 80 mineral oil and new filter. Engine controls rigged and adjusted. Ground run and leak check ok.</p> <p>Repaired/Inspected and Approved for Return to Service</p> <p>W.O. <u>6123</u> Date <u>1-29-02</u> / <u><i>Charlie Schumley</i></u> Authorized Signature</p>	
			Dulles Aviation Inc. CRS IBIR931E	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			Westair 136 Tower Road White Plains, N.Y. 10604 914-946-0100	
			Reg #: N2389Z Make: Textron Lycoming Model: IO-540-AB1 Date: 03-04-2002 W/O #: 7406 Meter: 716.5 S/N: 2655948A	
			This aircraft was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Details of this repair are on file at this agency under the work order listed above. Inspected engine area for condition and security. Performed compression test, 1) 76/80 2) 74/80 3) 78/80 4) 78/80 5) 76/80 6) 76/80. Serviced five spark plugs, replaced seven with new RHM38E plugs. Performed flow test of injectors. Performed engine ground test run-up, operational test satisfactory.	
			 FR1R150K Limited Airframe Limited Engine	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			<p>Date: 5/15/2002, Aircraft: N2389Z, Type: C182S, S/N: 18280360, Tach: 776.2, Total Time: 776.2, Engine - Type: IO-540-AB1A5, S/N: L-26559-48A, Time: 776.2, Prop Type: B3D36C431-B, S/N: 982295, Time: 776.2</p> <p>Changed oil and filter, inspected filter, took oil sample. Added 9 qts aeroshell 100w-50 C/W 50 hr. inspection</p> <p>Repaired/Inspected and approved for return to service w.o. <u>02-0168</u></p> <p>Date <u>5/15/02</u> <u>Charlie Scherndy</u> Authorized signature</p> <p>Dulles Aviation Inc. CRS IBIR931E Manassas, Va. 20110</p>	

MAINTENANCE RECORD

DATE

19

Date: 8/ 2/2002, Aircraft: N2389Z, Type: C182S, S/N: 18280360, Tach: 843.4, Total Time: 843.4, Engine - Type: IO-540-AB1A5, S/N: L-26559-48A, Time: 843.4, Prop Type: B3D36C431-B, S/N: 982295, Time: 843.4

ED SIGNATURE,
ICATE TYPE
UMBER

CW engine 100 hr inspection IAW Cessna C-182S inspection instructions. Drained engine oil, replaced oil filter, serviced with 9 qts aeroshell 100. Opened and inspected old filter, no defects noted. Leak run OK.
CW engine cylinder compression test, #1 75/80, #2 75/80, #3 75/80, #4 76/80, #5 70/80, #6 75/80. Cleaned, gapped, tested and inspected spark plugs.
CW AD 93-02-05 by visual inspection. No defects noted. Next due at 934.4 Tach

I certify that this ENGINE has been inspected in accordance with an 100 HR inspection and was determined to be in an airworthy condition. Date 8-31-02 ,w.o.# 02-0369
Recorded time 843.4 Total Time 843.4

Johnnie K Rogers
Authorized signature
Dulles Aviation Inc. CRS IBIR931E
Manassas, Va. 20110

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS	10ths		
			<p>Date: 11/21/2002, Aircraft: N2389Z, Type: C182S, S/N: 18280360, Tach: 896.2, Total Time: 896.2, Engine - Type: IO-540-AB1A5, S/N: L-26559-48A, Time: 896.2, Prop Type: B3D36C431-B, S/N: 982295, Time: 896.2 Drained oil from engine and oil cooler. Cut open filter and inspected for metal. No defects noted. #1- 73/80, #2- 74/80, #3- 74/80, #4- 76/80, #5- 70/80, #6- 75/80 Checked mag timing, cleaned, gapped, rotated spark plugs. Complied with during oil filter inspection. Next due @ TACH 946.2 Complied with AD 93-02-05, no defects noted. Next due @ TACH 996.2. AD's current thru 2002-22. Engine run-up checked ok, no leaks noted. 9 qts BERKSHIRE 800W ADDED. S</p> <p>I certify that this <u>ENGINE</u> has been inspected in accordance with an <u>100HR</u> inspection and was determined to be in an airworthy condition. Date <u>11/21/02</u>, w.o.# <u>02-0615</u> Recorded time <u>896.2</u> Total Time <u>896.2</u></p>	
			<p><i>[Signature]</i> Authorized signature Dulles Aviation Inc. CRS IBIR931E Manassas, Va. 20110</p>	

MAINTENANCE RECORD

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

DESCRIPTION OF THE WORK PERFORMED

DATE
2003
HOURS
TACH
10ths

2003	957	9	OIL CHGD - FILLED WITH 8 QTS SHELL 100W	R. J. BASSO OWIPOL 1616592
2004 12-1	985	8	Complied with AD 2002-26-01 by visual inspection of all fuel lines. No defects. Clean, gapped & rotated spark plugs. Timing checked at 23 BTC. Compression: #1-74, #2-76, #3-74, #4-75, #5-74, #6-75 (all over 150). Engine blown & tested operationally I certify that this engine has been inspected IAW an ANNUAL inspection & found to be in air worthy condition. All AD's through 04-10-14 CI have been completed w/H. END	R. J. BASSO 1A 2695597
3/4/05	1002	4	OIL & FILTER CHANGED, FILTER CUT OPEN AND OIL ANALYSIS TAKEN - KEEP ON TRACK	J. Becker owner
7/23/05	1025	0	OIL CHANGED - REPL W AEROSHELL 50W AUIS - NO ANALYSIS SAMPLE TAKEN	J. Becker owner
11, 06	1050.1		changed oil & Filter Compression Check	1, 78 2, 79 3, 76

4, 80 5, 76 6, 80 c/w AD 2002, 26, 01 Fuel Line Visual inspection
OR next due I, have inspected this Engine IAW Annual inspection

and was Found To be in Airworthy Condition Robert A. Harper IA 2016133

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2006 05 8/16	1100	01	OIL AND FILTER CHANGED, CH 48110-1 CUT OPEN AND FOUND CLEAN - REPL W/ ARSELL 50W PLUS	
27, 7 11	1129	15	installed 12 new Autolite UREM38E spark plugs checked Compression changed oil + Filter I have inspected This Engine I/AW Annual inspection and was Found to be in Airworthy Condition Robert A. Harper IA 2016133	
7/12/07	1150	.1	changed oil & FILTER CH 48110-1 CUT OPEN FILTER AND FOUND CLEAN REPL OIL W/ ARSELL PLUS 50W (7 QUARTS)	
3, 7, 08 11	1186.1		Installed New Air Filter I have inspected This Engine I/AW Annual inspection and was Found to be in Airworthy Condition Robert A. Harper IA 2016133	
3 15 08	1186.1		Removed Engine + Propeller For O/H.	
4, 18, 08	0.5M O/H		Re installed This Engine and Prop in Cessna 182 N 4442 Robert A. Harper AP 2016133	see next page →

MAINTENANCE RECORD

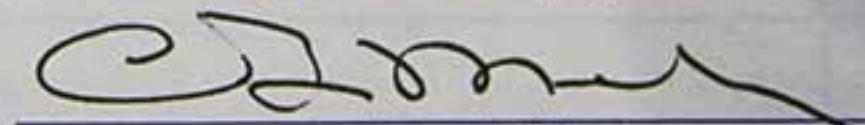
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			new crankshaft installed per Lycoming MSB 569A	

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts limits by Zephyr Aircraft Engines, Inc. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. Reassembled in accordance with manufacturer's current overhaul manual. Engine test run. All applicable Airworthiness Directives are in compliance. See A.D. list supplied. A description of these repairs is on file at this agency under:

W.O. # 28061 DATED 4/7/08
 MFG. LYCOMING MODEL IO-540-AB1AS
 Serial No. L-26559-48A Time in svc. _____

FUEL INJ. SYSTEM NOT O/H.

Zephyr Aircraft Engines, Inc.
 Municipal Airport
 39320 B Avenue Zephyrhills, FL 33542



 Authorized Signature

F.A.A. APPROVED REPAIR STATION #VI 4R597M

MAINTENANCE RECORD

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	HOURS	10ths		
2009 19			changed oil & Filter +T 1208.8 22.7 SMOH	
4/16/09	1208 22.7 smoh	8	AD 2002-26-01 c/w Per by coming S, B, 342 E cleaned & Gapped Plugs Compression check good I have Inspected this Engine i/a/w 100hr inspection and Found it to be in Airworthy Condition	AP2016133 Robert D. Harper
2010 APR 29	1241	.50	Comp - 1/79 2/80 3/79 4/79 5/80 6/80	<p style="text-align: center;">I certify that this Engine has been inspected i/a/w an Annual Inspection and was determined to be in Airworthy Condition See Listing for AD compliance requirements</p> <p style="text-align: center;"><i>George R. Williams</i> George R. Williams A&P 76306545 IA</p>
2011 MAY 03	1266	.50	OIL + FILTER CHANGED - SHELL 50W100W - FILTER CH'D. SMOH 80.0 1/79 2/78 3/79 4/79 5/79 6/79	
				<p style="text-align: center;">I certify that this Engine has been inspected i/a/w an Annual Inspection and was determined to be in Airworthy Condition See CD for AD compliance requirements</p> <p style="text-align: center;"><i>George R. Williams</i> George R. Williams A&P 76306545 IA</p>

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	HOURS	10ths		
2012 3/4	1295	6	Inspect fuel INTENTION LINES As Per AD 2011-26-04 + Found to be correct	Saul W. Cap 1729300 AIP
2012 5/15	1300	4	Comp 1/78 2/76 3/77 4/78 5/76 6/78	<p>I certify that this Engine has been inspected i/a/w an Annual Inspection and was determined to be in Airworthy Condition See CD for AD compliance requirements</p> <p style="text-align: center;"><i>George R. Williams</i></p> <p>George R. Williams A&P 76306545 IA</p>
SMOH	1307	7	SMOH 114.3	
2013 05/13	1326	5	SMOH 140.4	<p>I certify that this Engine has been inspected i/a/w an Annual Inspection and was determined to be in Airworthy Condition See CD for AD compliance requirements</p> <p style="text-align: center;"><i>George R. Williams</i></p> <p>George R. Williams A&P 76306545 IA</p>
			Comp 1/78 2/78 3/78 4/78 5/7/80 6/79	

MAINTENANCE RECORD

DATE 2014	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
6/3 2014			Changed oil + Filter. Added 9 qts Aeroshell 100plus. Took oil sample for Analysis. Cut opened oil Filter, normal findings, no metal. Bore scoped cylinders. cleaned, gapped + rotated spark plugs. checked mag timing +	
Tech 1336.	8		ignition harness. Clean injector nozzles + screen. Clw AD11-26-04 External Fuel injector Lines by visual inspection and leak check. Inspected Exhaust System. Compression on cyl's #1 78/80 #2 77/80 #3 77/80 #4 77/80 #5 77/80 #6 78/80	
Engt 1336.	8			
SMOH 150.	7			
			Checked AD compliance thru BW 2014-10. I certify that this Engine has been inspected IAW an Annual Inspection and was determined to be in Airworthy condition.	Patricia Ann AIP 2740160 IA

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
19__	HOURS	T



1011 Westbrook Street, Portland, ME 04102
CRS# FTUR030E 207-774-6318 FAX 207-772-7035 877-345-7881
N958DC Cessna 182S S/N: 18280360 AFTT: 1425.0 Tach: 1425.0 WO 3558-03-2015
Engine: AVCO LYCOMING IO-540-AB1A5 S/N L-26559-48A TT: 1425.0 TSOH: 238.9 (No accessories)
ENGINE

AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

- C/W pre-inspection engine run. Results referenced on discrepancy sheets as needed.
- Oil sample taken and sent for analysis.
- C/W annual engine inspection using 14 CFR 43, Appendix D, Scope & Detail Annual and 100HR inspection checklist in conjunction with Cessna 182S MM 5-10-01 (Rev 18) as a guide.
- C/W compression check of engine. Results as follows: #1 77/80 #2 76/80 #3 74/80, #4 72/80 #5 76/80 #6 77/80.
- Drained oil, removed and cut open filter for inspection, no defects noted. Installed new filter P/N CH48110-1. Serviced with 9 quarts of Aeroshell 15W50. Leak checked post engine run, none noted.
- CW AD 11-26-04 (i), re-inspection of stainless fuel lines. No discrepancies noted at this time.
- Found record of C/W AD 15-02-07 compliance at overhaul per Lycoming SI 1343B.
- All ADs checked through 2015-09.

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

Total Time: 1425.0 hrs. Work Order # 3558-03-2015

Date: May 14, 2015

Authorized Signature
 Northeast Air, Inc.
 1011 Westbrook St. Portland, ME 04102

FTUR030E

MAINTENANCE RECORD

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

DATE	TOTAL TIME IN SERVICE	
	HOURS	MIN
19__		



1011 Westbrook Street, Portland, ME 04102
 207-774-6318 FAX 207-772-7035 877-345-7881
 CRS# FTUR030E
 N958DC Cessna 182S S/N: 18280360 AFTT: 1428.2 Tach: 1428.2 WO 3486-11-2014
 Engine: AVCO LYCOMING IO-540-ABIA5 S/N L-26559-48A TT: 1428.2 TSOH: 242.1 (No accessories)

ENGINE

- Replaced engine oil pressure switch with P/N 83278. Ran and leak checked. No leaks.
- Installed customer supplied Electronic Instrument CGR-30P-6P Engine Monitor System and an Electronics International CGR-30C cluster gauge system. The CGR-30P sn: 162846 is installed IAW STC/AML# SA02283SE dated July 25, 2013 and Installation Instructions Rev. D dated 03/17/2014. Installed POH/AFM Supplement No. AFM022513, Rev. F in aircraft. The CGR-30C sn: 162847 is installed IAW STC/AML# SA02402SE dated June 24, 2014, and Installation Instructions Rev. D dated 03/17/2014. Installed POH/AFM Supplement. No. AFM1030131, Rev. B in aircraft. Placed CGR-30P and CGR-30C ICA Doc. No. 06211301 Rev. E dated March 28, 2014 updated in aircraft records. Updated aircrafts weight and balance. Placed Pilots Manual Rev. E dated Sept 8, 2004 in aircraft. Performed satisfactory electrical power consumption check. Performed satisfactory leak check. Operational check good. Alteration is considered a major alteration and has a FAA Form 337. 100hr and/or annual inspection requires maintenance checks IAW CGR-30P and CGR-30C ICA.

Date: Jun 11, 2015

Authorized Signature
 Northeast Air, Inc. FTUR030E
 1011 Westbrook St. Portland, ME 04102

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERV
	HOURS
19__	



NORTHEAST AIR 1011 Westbrook Street, Portland, ME 04102
 CRS# FTUR030E 207-774-6318 FAX 207-772-7035 877-345-7881
 N958DC Cessna 182S S/N: 18280360 AFTT: 1444.3 Tach: 1444.3 W/O: 3702-09-2015
 Engine: AVCO LYCOMING IO-540-AB1A5 S/N L-26559-48A TT: 1444.3 TSOH: 258.2 (No accessories)

ENGINE

- Replaced upper vacuum pump with new Tempus pump P/N AA3215CC. Installed S/N 020M08. Ops checked good.
- Changed oil and filter. Sent AOA sample. Added 9 qts. of Aeroshell 15W 50 and installed CH48110-1 oil filter. Cut old filter open and minor amounts of metal found. Ran and leak checked. No leaks.

Date: September 18, 2015

Authorized Signature *Jim White*
 Northeast Air, Inc. FTUR030E
 1011 Westbrook St. Portland, ME 04102

AUTHORIZED
 CERTIFIED
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Installation of
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NORTHEAST AIR

1011 Westbrook Street, Portland, ME 04102

CRS# FTUR030E 207-774-6318 FAX 207-772-7035 877-345-7881
N958DC Cessna 182S S/N: 18280360 AFTT: 1451.6 Tach: 1451.6 W/O: 3723-10-2015
Engine: AVCO LYCOMING IO-540-ABIA5 S/N L-26559-48A TT: 1451.6 TSOH: 265.5 (No accessories)

MAINTENANCE RECORD

THORIZED SIGNAT
CERTIFICATE TY
& NUMBER

DATE	TOTAL IN SE
19__	HOURS

ENGINE

- Removed lower vacuum pump P/N F212CW S/N 7AP468 and installed a new pump P/N AA3216CW S/N 09AR06. Engine run up, op checks good.


Date: October 6, 2015

Authorized Signature
Northeast Air, Inc.
1011 Westbrook St. Portland, ME 04102

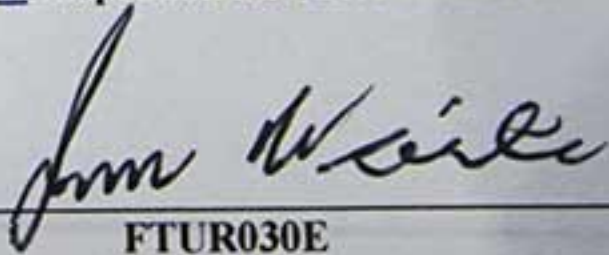
FTUR030E

USD


MAINTENANCE RECORD

DATE	TOTAL TIME IN SEI	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19	HOURS	<div style="display: flex; justify-content: space-between;"> <div style="width: 25%;">  <p>NEA NORTHEAST AIR</p> </div> <div style="width: 75%;"> <p>1011 Westbrook Street, Portland, ME 04102 207-774-6318 FAX 207-772-7035 877-345-7881 CRS# FTUR030E N958DC Cessna 182S S/N: 18280360 AFTT: 1472.6 Tach: 1472.6 W/O: 3846-05-2016 Engine: Lycoming IO-540-AB1A5 S/N: L-26559-48A TT: 1472.6 TSO: 286.5 (4-7-08) Propeller: McCauley B3D36C431-B S/N: 002618 TT: 1472.6 TSO: 286.5 (4-7-08)(new hub)</p> <p style="text-align: center;">ENGINE</p> <ul style="list-style-type: none"> • C/W an engine annual inspection using 14 CFR 43, Appendix D, Scope & Detail Annual and 100 HR inspection checklist in conjunction with Cessna 182S MM 5-10-01 (Rev 19) as a guide. • Removed, cleaned, inspected, gapped and rotated spark plugs. No defects noted. Reinstalled spark plugs with 12 new plug gaskets P/N M674. • C/W engine cylinder compression check: 1-74/80, 2-76/80, 3-78/80, 4-76/80, 5-78/80, 6-78/80. • Drained oil and took AOA oil sample. Removed and cut open oil filter, no defects noted. Installed new filter P/N CH481101-1. Serviced engine with 9 quarts Aeroshell 15W50 oil. Engine run, no leaks noted. • Removed fuel injector nozzles for cleaning and inspection. No defects noted. Installed all injector nozzles IAW Cessna 182 AMM 73-00-01. Op checks good, no leaks noted. • Retorqued hose clamps on all cylinder head drain lines, no leaks noted. • Replaced exhaust clamp hardware downstream of the mufflers on both the LH and RH exhaust pipes as needed with 5 bolts P/N AN3C-4A, 5 washers P/N AN960-4, and 5 washers P/N AN960D-10. • AD's current through 2016-09. </div> </div>	
		<p>I certify that this <u>ENGINE</u> has been inspected in accordance with an <u>ANNUAL</u> Inspection and determined to be in airworthy condition and is approved for return to service.</p>	

Date: May 18, 2016

Authorized Signature 
 Northeast Air, Inc. FTUR030E
 1011 Westbrook St. Portland, ME 04102

MAINTENANCE RECORD

DATE	TOTAL TIN IN SERVIC	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS		
		<div style="display: flex; justify-content: space-between;"> <div style="text-align: left;">  <p>NEA NORTHEAST AIR</p> </div> <div style="text-align: right;"> <p>1011 Westbrook Street, Portland, ME 04102 207-774-6318 FAX 207-772-7035 877-345-7881 CRS# FTUR030E N958DC Cessna 182S Engine: AVCO LYCOMING IO-540-AB1A5</p> </div> </div> <p style="text-align: center; margin-top: 10px;">ENGINE</p> <ul style="list-style-type: none"> C/W oil change and filter inspection, no defects noted. Serviced engine with 9 quarts Aeroshell 20W-50 oil and installed new oil filter P/N CH48110-1. Engine run, no leaks noted. C/W AOA oil sample. <p style="margin-top: 20px;">Date: December 30, 2016</p>	
		<p>Authorized Signature <u><i>Jim Waitt</i></u> Northeast Air, Inc. FTUR030E 1011 Westbrook St. Portland, ME 04102</p>	



NORTHEAST AIR

1011 Westbrook Street, Portland, ME 04102

CRS# FTUR030E 207-774-6318 FAX 207-772-7035 877-345-7881

N958DC Cessna 182S S/N: 18280360 AFTT: 1562.5

Engine: AVCO LYCOMING IO-540-AB1A5 S/N L-26559-48A Tach: 1562.5 W/O: 4311-02-2018 TSN: 1562.5 TSO: 376.4 (No accessories)


AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

DATE	TOTAL TIME IN SERVICE	
	HOURS	10th
19__		

ENGINE

- Drained oil, took oil sample and cut open filter, no defects noted. Installed new filter P/N CH48110-1. Serviced engine with 9 quarts Aeroshell 15W50. Engine run up, no leaks noted.

Date: February 26, 2018

Authorized Signature 
 Northeast Air, Inc. FTUR030E
 1011 Westbrook St. Portland, ME 04102



MAINTENANCE RECORD

NORTHEAST AIR

1011 Westbrook Street, Portland, ME 04102

CRS# FTUR030E 207-774-6318 FAX 207-772-7035 877-345-7881

N958DC Cessna 182S S/N: 18280360 AFTT: 1626.0 Tach: 1626.0 W/O: 4872-09-2019

Engine: Lycoming IO-540-AB1A5 S/N: L-26559-48A TSN: 1626.0 TSO: 439.9 (No accessories)

ENGINE

- Drained oil, took oil sample and cut open filter, no defects noted. Installed 1 new filter P/N CH48110-1. Serviced engine with 8 quarts Aeroshell 15W-50. Engine run up, no leaks noted.

Date: September 19, 2019

Authorized Signature

Northeast Air, Inc.

FTUR030E

1011 Westbrook St. Portland, ME 04102

Maine Aviation
Aircraft Maintenance, LLC.

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
12-12-2019	44749	N958DC	Cessna 182S	18280360	1628.8	-----

- Removed oil filter for inspection. Installed new filter CH48110-1.
- Added 1 Qt. aeroshell 15W50 oil.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E
Type and Certificate Number

AUTHORIZED SIGNATURE
CERTIFICATE TYPE
& NUMBER

N5750^{DL} Date: 2/5/2020 Lycoming IO-540-AB1A5
Tach: 1651.2 SMOH: 465.1 Engine Total Time: 1651.2 S/N L-26559-48A

Performed annual inspection on the engine I/A/W Cessna 182S checklist and CFR 14 Part 43

Appendix D. Compressions: #1 76/80, #2 75/80, #3 76/80, #4 77/80, #5 76/80, #6 73/80. Drained oil.

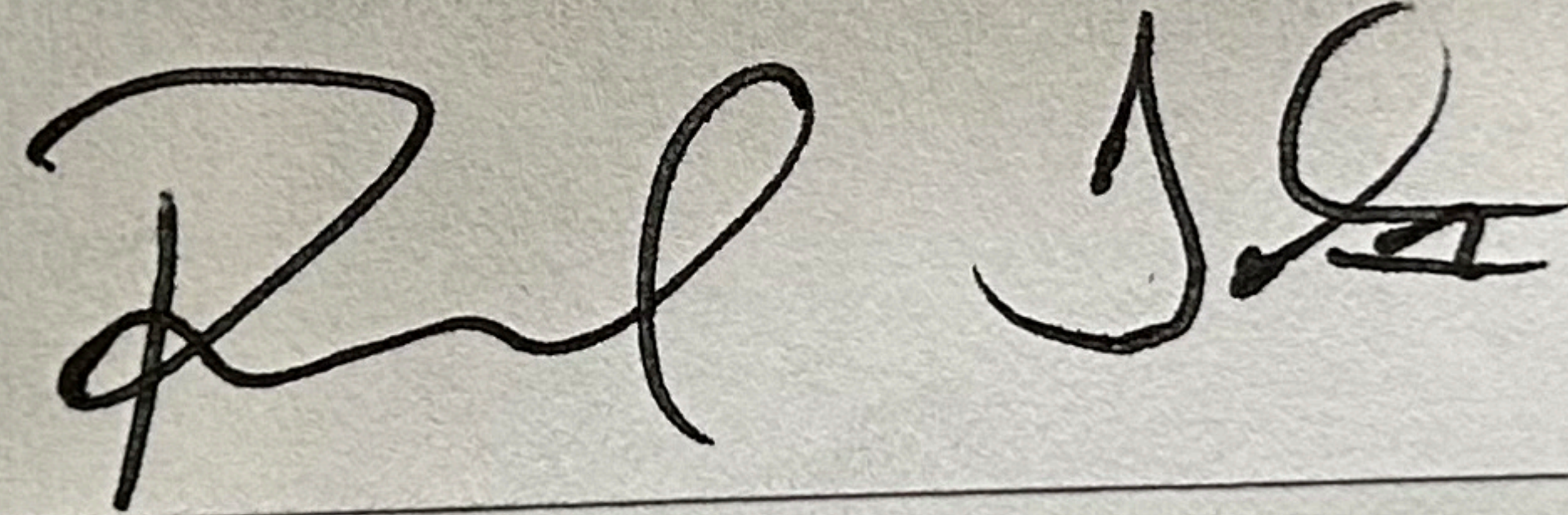
Removed and cut open filter to check for contaminants, none found. Installed new oil filter, P/N

CH48110-1. Serviced engine with 9 quarts of Aeroshell 15W50, and 14oz of Camguard. Removed,

cleaned, inspected, gapped and rotated spark plugs. Performed run up, no problems noted at this time.

certify that this engine was inspected I/A/W annual inspection and was found to be in an airworthy condition. *******END*******

Richard John II A&P 3564898 IA

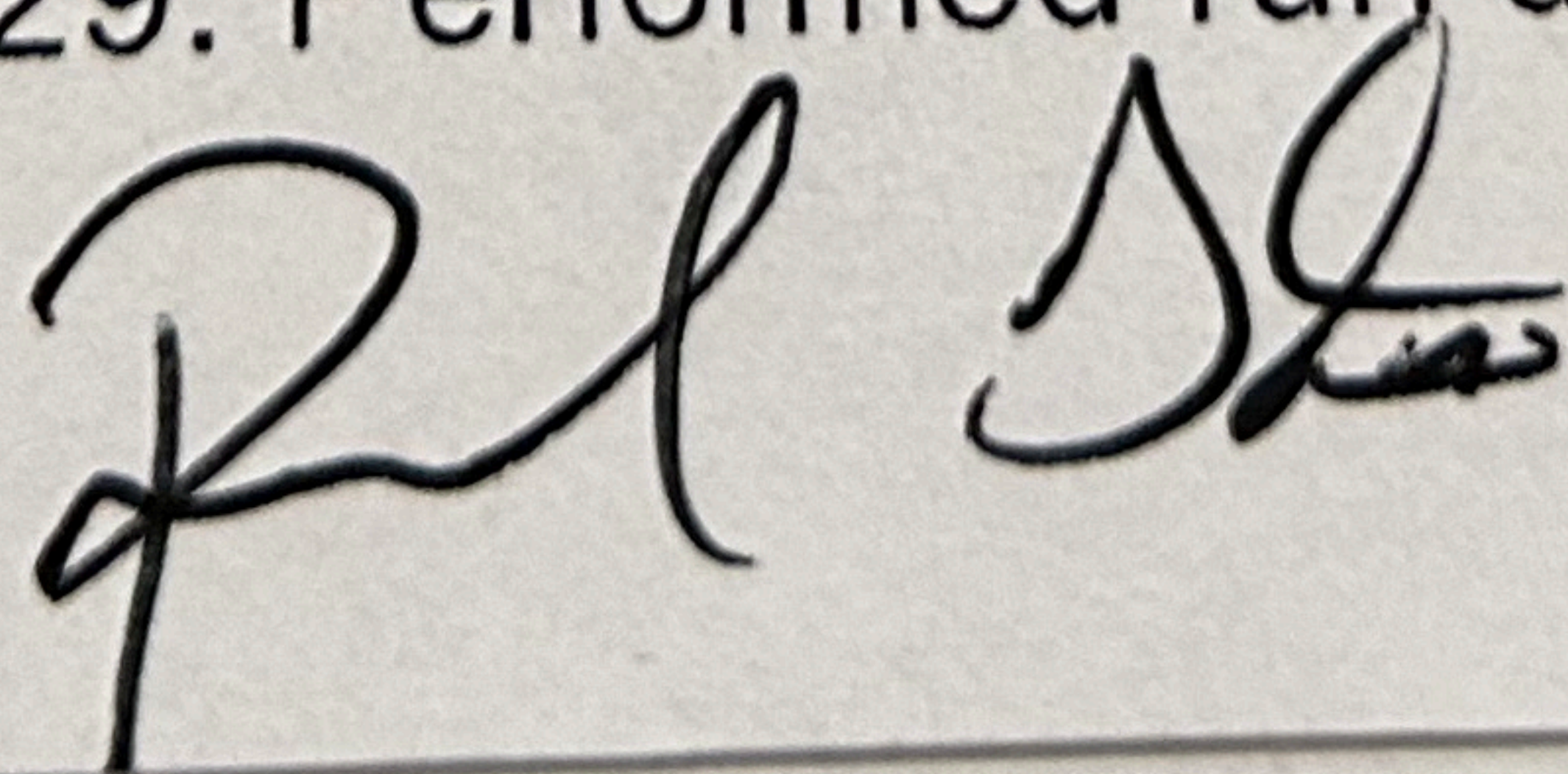


N575DL Date: 3/23/2020 Cessna 182S

Tach: 1905.9

Installed overhauled alternator, P/N 9910591-11, S/N A20304. Installed new ACU, P/N AC2101. Installed new alternator contactor, P/N X61-0029. Performed run up, no problems noted at this time. *******END*******

Richard John II A&P 3564898 IA



MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED CERTIFICATION & NUMBER
	HOURS	10ths		
19				

N575DL Date: 9/3/2020 Cessna 182S
 Tach: 1720.9 Airframe Total Time: 1720.9 S/N 18280360
 Pilot reported that the fuel flow was INOP. Upon inspection, determined that the fuel flow transducer was INOP. R/R transducer, P/N FT-60. Operational check of fuel flow ok at this time. No problems noted. No leaks noted. *****END*****
 Richard John II A&P 3564898 IA *Richard John II*

N575DL Cessna 182S S/N: 18280360
 Date: 20 SEP 2020 Tach: 1723.4
 Changed oil and filter. Took oil sample and cut open filter, no defects noted. Installed new filter P/N CH48110-1. Serviced engine with 9 quarts Aeroshell 15W50. Engine run up, no leaks noted.
 Donley Lytle, 2687382 *Donley Lytle*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATION & NUMBER
	HOURS	10ths		
19				

N575DL Date: 12/31/2020 Cessna 182S

Tach: 1754.4 Airframe Total Time: 1754.4 S/N 18280360

R/R starter, P/N 149-NL/EC, S/N H-U111415. Operational check of the starting system ok at this time. No problems noted. *****END*****

[Handwritten Signature]

N575DL Date: 2/26/2021 Lycoming IO-540-AB1A5

Tach: 1793.8 SMOH: 607.7 Engine Total Time: 1793.8 S/N L-26559-48A

Performed annual inspection on the engine I/A/W Cessna 182S checklist and CFR 14 Part 43 Appendix D. Compressions: #1 77/80, #2 75/80, #3 76/80, #4 78/80, #5 74/80, #6 75/80. Drained oil. Removed and cut open the filter to check for contaminants, none found. Installed new oil filter, P/N CH48110-1. Serviced engine with 9 quarts of Aeroshell 15W50, and 14oz of Camguard. Removed, cleaned, inspected, gapped and rotated spark plugs. Removed the RH magneto. Found the contact points to be worn. R/R point, timed magneto internally and to the engine. Performed run up, no problems noted at this time. No leaks noted. **I certify that this engine was inspected I/A/W annual inspection and was found to be in an airworthy condition.** *****END*****

[Handwritten Signature]

Richard John II A&P 3564898 IA

MAINTENANCE RECORD

TOTAL TIME
IN SERVICE

DESCRIPTION OF THE WORK PERFORMED

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

ENGINE LOG ENTRY

Mesquite Aircraft Sales & Services 1350 Airport Blvd. Mesquite, Texas 75181

Aircraft Registration: N575DL AFSN: 18280360 DATE: 08-25-2021 HOBBS: 2051.0 TACH: ~~1784.1~~
1824.3

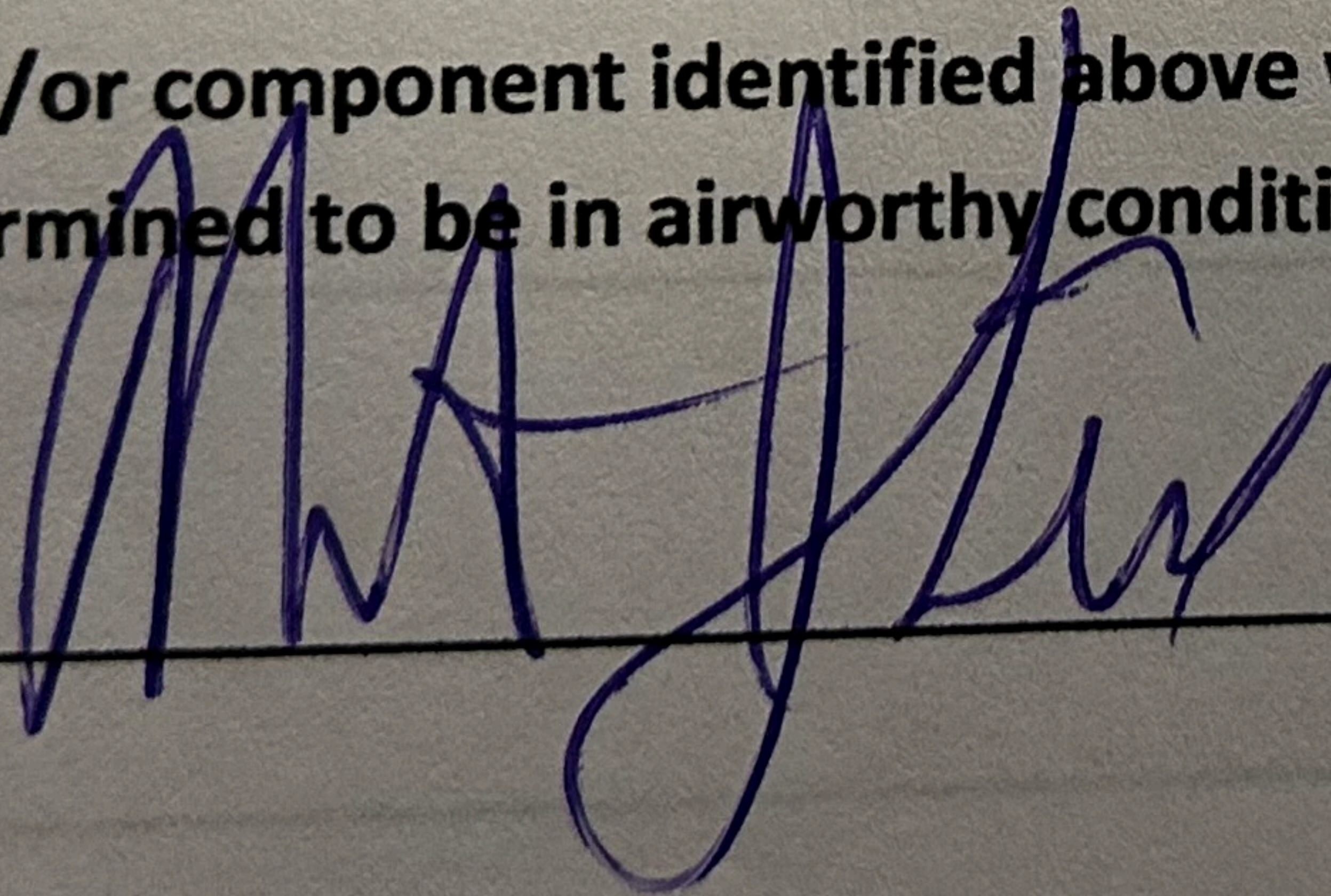
ENG MANUF: CESSNA ENG Model: IO-540-AB1A5 ENG S/N: L-26559-48A ETSN- 1821.3 TSMOH-

- Drained engine oil and removed oil filter, cut open for inspection, normal conditions present. Serviced engine with 9 quarts of Aeroshell 15W-50 and installed new CH48110 filter. Ground ran for leak checks and noted no leaks
- Performed oil sample analysis at this oil change event and shipped to Lab for evaluation. Customer and Shop will be notified of results.

I certify this aircraft, engine and/or component identified above was repaired and/or inspected in accordance with current F.A.A. regulations and was determined to be in airworthy condition and approved for Return to Service with respect to work performed.

Dated: 08-25-2021

Signed



Martin J. Sisk A&P 2820585

AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

A.D. NUMBER AND AMENDMENT NO.	METHOD OF COMPLIANCE	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE A.D. (X)		NEXT COMPLIANCE DUE-DATE/ HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
			AIRFRAME	COMPONENT	ONE-TIME	RE-CURRING			
93-02-05	S.B. 342A	10-1-89	99.7	99.7		X	199.7	C. Shorley CRS FBIR 931E	
93-02-05	S.B. 342A	2-7-00	202.9	202.9		X	302.9	C. Shorley CRS FBIR 931E	
93-02-05	S.B. 342C	6-14-00	299.8	299.8		X	399.8	C. Shorley CRS FBIR 931E	
93-02-05	S.B. 342C 00-73-0121	10-13-00	370.2	370.2		X	470.2	C. Shorley CRS FBIR 931E	
93-02-05	S.B. 342C	5-25-01	520.2	520.2		X	620.2	C. Shorley CRS FBIR 931E	
2001-02-14	N/A BY SIN		-	-		-	-	Christi Shorley CRS FBIR 931E	
93-02-05	S.B. 342C	11-08-01	680.6			X	780.6	Jolanne K. Rogers CRS FBIR 931E	

AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

A.D. NUMBER AND AMENDMENT NO.	METHOD OF COMPLIANCE	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE A.D. (X)		NEXT COMPLIANCE DUE-DATE/ HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
			AIRFRAME	COMPONENT	ONE-TIME	RE-CURRING			
93-02-05	IAW SB 342A	11/15/02	TACH 896.2	896.2		X	1092.6 976.2 ANNUAL	<i>[Signature]</i> CRS1B1R931E	
02-20-51	NA BY S/N	11/15/02	896.2	896.2			N/A	<i>[Signature]</i> CRS1B1R931E	
930205	INSP FI LINES	1,1,06	1050.1	1050.1		X	Annual	Robert A. Harper AP2016133	
93,02,05	INSP FI LINES	1,1,07	1129.5	1129.5		X	Annual	Robert A. Harper AP2016133	
930205	INSP FI LINES	3,7,08	1186.1	1186.1		X	Annual	Robert A. Harper AP2016133	
2004 05 04 44	N/A S/N SB 554	3,7,08	1186.1	1186.1	X		N/A	Robert A. Harper AP2016133	
2005 19 11	N/A S/N SB 566	3708	1186.1	1186.1	X		N/A	Robert A. Harper AP2016133	

REPAIRED PARTS LIST
MATERIAL REPAIR

VOICE # 017911

DATE: 01/21/02

PAGE 1

Ship To: Dulles Aviat
Manassas Regi
10501 Observa
Manassas

& Inspect Lyc.
Engine, S/N
or Damage &
ation.
th Logbook Time
om 701.0 Hrs.

Charges
ivery Via C.A.S.

SERIAL *****

1 CYL REPAIRED

SERVICEABLE TAG

PART No.

TO-540-ABIAS

MFG'S NAME

Lycanik Engine Assy

The aircraft and/or compon-
ent identified above was in-
spected in accordance with
current Federal Aviation Ad-
ministration Regulations and
was found airworthy for re-
turn to service.
#85-2
~~Overhauled/Repaired~~

Pertinent details of the repair are on
file at this agency under work order
No. 020119
Date Jan 21 '02
Signed Keith
for Columbia Aircraft Services, Inc. -
Bloomsburg, Penna.
FAA R.S. #JM2R930K

- | | | |
|---|---------------|--------------------|
| 2 | 32001 | Gasket Prop Gov. |
| 1 | 1185-4CN-0375 | Clamp |
| 1 | 11 | Helicoll Insert |
| | | Consumed Materials |

ORD. #003408
Order 020119 - 1/3/03
For Your Patronage.

TOTA

SU

704-3070 - In PA: 800-222-1522
 FAX: (570) 784-2538

*SHIPPED PARTS LIST
 MOTOR REPAIR*

INVOICE # 017911

DATE: 01/21/02

PAGE 1

3612171

Dulles Aviation, Inc.
 Manassas Regional Airport
 10501 Observation Rd.
 Manassas VA 20110

Ship To: Dulles Aviat
 Manassas Regi
 10501 Observa
 Manassas

QTY.	ITEM #	DESCRIPTION
1	#16	Labor
1	17	Disassemble & Inspect Lyc.
1	13-1	IO-540-AB1AS Engine, S/N L-26559-48A For Damage & Metal Contamination. Reassemble With Logbook Time To Continue From 701.0 Hrs. Test Cell Run Transportation Charges Pick Up & Delivery Via C.A.S. Truck.

***** MATERIAL *****
 Oil Filter
 Bearing
 Bearing
 Body
 Screw
 Plug
 Ring
 Ring
 Ring
 Key
 Key
 Bolt
 Nut
 Hose
 Hose
 Cushion
 Thrust Button
 Seal & Gasket Set
 Plunger
 Wocket
 Push Rod
 Gasket Prop Gov.
 Clamp
 Helicoll Insert
 Consumed Materials

ORD. #003408
 Order 020119 - 1/3/03
 For Your Patronage.

SU
 TOTA

