



ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 18280231 YD417PG

ENGINE MODEL AND SERIAL IO-540-AB1A5 N-26308-48A

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19 <u>98</u>		

DESCRIPTION OF THE WORK PERFORMED

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

NEW RECIPROCATING ENGINE CERTIFICATE


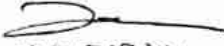
This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service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

MODEL IO-540-AB1A5 SERIAL NO. L-26308-48A


DATE 12-15-97 R.C. Oliveira
 (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 98 5/12	0	0	Engine model IO-540-AB1A5, S/N <u>26308-48A</u> has been installed on aircraft # <u>18980931</u> This engine service with Aeroshell oil 100, SAE50, mineral oil.	FAA APPROVED UNDER FAR 21 SUBPART J The Cessna Aircraft Co Delegation of Authority Manufacturer CE-4 By <u>Michael H. Friesen</u> Executive Engineer Dick Friesen
26	21	7	CHANGED OIL + FILTER. SERVICED SUMP W/ 9 QUARTS AEROSHELL 100 MINERAL.	 1A61549441
31	44	5	CHANGED OIL + FILTER. SERVICED W/ 8 QUARTS AEROSHELL 100.	 1A61549441

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 98 SEPT 22	98	6	CHANGED OIL AND FILTER. SERVICED SUMP WITH 8 QUARTS AEROSHELL 100. CLEANED + GAPPED PLUGS. CHECKED TIMING AND COMPRESSION. ALL CYLS > 75% "I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW 100 HOUR INSP. PROCEDURES AND IS APPROVED FOR RETURN TO SVC."	 1A61549441
NOV 6	123 TACH	4	Changed oil and filter - cut old filter NO metal found. Refilled with 9 qts - Aeroshell W100 oil. OPS check OK for return to service.	Doug L. Shirley #44 260272022 IA Rohda Austin Sew.
HM	141	4		

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HI	<p>N 417 RG TACH: 138.6 Hobbs: 159.8</p> <p style="text-align: center;">  P.O. BOX 23725 LOVELL FIELD - CHATTANOOGA, TN. 37422 (615) 496-1100 </p> <p style="text-align: right;">Date: 1/21/99 WO # M1061</p> <p>Ran engine, Drained oil, removed filter and performed content inspection IAW Cessna SB 99-71-01. Installed new CH48110 filter and serviced engine w/ (9) qts of Aeroshell 100w50 oil. CW AD 98-13-10, Engine exhaust muffler, by visual insp. of muffler end plates. Next Due 163.6 TACH. - END - <i>Matt Thayer</i> A#P 410591787</p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
1999				
7/2	181	8	<p>Performed an annual inspection per FAR 43 Appendix D and Cessna 182S inspection Guide with the following action taken; Tightened aft clamp on induction tube Coupling & pit return Couplings, reinstalled 100m air cooling rings & secured. Drained oil, checked filter for contamination found none serviced with 9 qts Aeroshell 150w50 + new CH48110 oil Filter Don Seal, CK'd & All AD's & Bi Weekly's & S/B checked thru this date. End.</p> <p style="text-align: center;"> I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR SERVICE. </p> <p>DATE <u>7-2-99</u> TACH TIME: <u>181.8</u></p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/5/99	211.6		Drained oil - Checked filter for contamination none noted - Drained Eng with 9 qts 100w 50 Aeroshell and installed new CH48110 oil filter Ground Run and leak checked OK. could Eng. End	<i>[Signature]</i> 268663771
1/11/00	260.4		Ran engine, Drained oil and removed filter. CW SB 99-71-01 by inspecting oil filter and taking oil sample. Filter checked good. Installed new CH48110 filter B SAFETY	
Work MIS 40			Wired. Serviced engine w/ (7) qts Aeroshell 100W 50 Oil. Engine ground run, Leak checked good. - END -	<i>[Signature]</i> AIP 410591787
5-5-00	Tach 302.3	Hobbs 364.5	Performed an annual inspection per FAR 43. Appointed D and Lesona 1825 Inspection Station's with the following action taken, Compression Ck #1 ⁷² / ₈₀ #2 ⁷² / ₈₀ #3 ⁷⁵ / ₈₀ #4 ⁷³ / ₈₀ #5 ⁷⁸ / ₈₀ #6 ⁷⁴ / ₈₀ Tightened all brass clamp on oil return brass, tightened hose nut on #1 cyl. Intake tube flange, Drained oil, took oil sample -	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Checked oil filter for contamination found none installed new CH48110 oil filter & 9 qts aeroshell 100w oil Eng ground run NO leaks found at this time. All Ad's & B's welds checked thru this date. END I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE. DATE: <u>5-5-00</u> TACH TIME: <u>302.3</u>	<i>[Signature]</i> AIP 40863053 IA
5/16/00	TACH: 334.2	Hobbs: 400.0	Ran engine, Drained oil and removed filter. CW SB 99-71-01 by inspecting oil filter and taking oil sample. Filter checked good. Installed new CH48110 filter: satisfied. Serviced engine with 9 qts aeroshell 100w oil. Engine ground run. No leaks at this time. end	<i>[Signature]</i> 408318596 A:P

19	HOURS	10ths	6 NUMBER
10/25/00	366.60		Drained oil, removed filter and checked for contamination none noted, serviced engine with 8 qts Aeroshell 80W & installed CH48110 filter, washed eng., ran up no leaks noted, aircraft returned to service. <i>Chris Etmanczyk</i> A/P 592366871

GOLDEN EAGLE AIRCRAFT SERVICES, INC.

1957 HWY 41 SOUTH, HANGER #2 CALHOUN, GA. 30701 706-625-9927

DATE: 1/19/2001 TACH: 397.00 SMOH: 397.00 N:417RG MODEL: C-182

- * DRAINED OIL & REMOVED FILTER, NO CONTAMINATES FOUND.
- * SERVICED WITH 11 qts. AEROSHELL 80W & INSTALLED CH48110 FILTER.
- * CHECKED ALL ENGINE CONTROLS FOR PROPER TRAVELS.
- * RAN -UP PERFORMED LEAK CHECK NO PROBLEMS NOTED.
- * I CERTIFY THIS ENGINE TO BE IN AIRWORTHY CONDITION.

Chris Etmanczyk
CHRIS ETMANCZYK A/P 592366871

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/25/01	427	6	<p>Performed an annual inspection per FAR 43 appendix D and Cessna 182 inspection. Includes with the following action taken:</p> <p>Compression ck #1 30 #2 30 #3 30 #4 30 #5 30 #6 30</p> <p>Drained oil, checked filter for contamination found none, took oil sample. Serviced with 9 qts Aeroshell 100W & CH48110 filter, resecured lower vac. pump cooling shroud, R/R induction filter PP198290, all AD's & Bi-weekly's checked thru this date, eng washed down & ran no leaks at this time.</p> <p>I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr <u>ANNUAL</u> INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>10-08-01</u> TACH TIME: <u>427.6</u></p>	<i>Robert E. Sullivan</i> A/P 408683053IA

MAINTENANCE RECORD

GOLDEN EAGLE AIRCRAFT SERVICES, INC.

1957 HWY 41 SOUTH, HANGER #2 CALHOUN, GA. 30701 706-625-9927

DATE: 11/03/2001 TACH: 457.90 SMOH: 457.90 N:417RG MODEL: C-182

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER


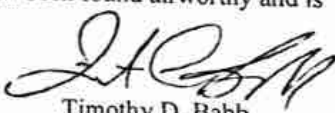
- * DRAINED OIL & REMOVED FILTER. NO CONTAMINATES FOUND.
- * SERVICED WITH 11 qts. AEROSHELL 100W & INSTALLED CH48110 FILTER.
- * CHECKED ALL ENGINE CONTROLS FOR PROPER TRAVELS.
- * RAN -UP PERFORMED LEAK CHECK NO PROBLEMS NOTED.
- * I CERTIFY THIS ENGINE TO BE IN AIRWORTHY CONDITION.

Chris Etmanczyk

CHRIS ETMANCZYK A/P 592366871

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS 10ths		

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS 10ths		
		<div data-bbox="215 1400 438 1512" style="border: 1px solid black; padding: 5px;"> N417RG ENGTOT: 498.2 SMOH: 498.2 </div> <div data-bbox="630 1411 869 1512" style="text-align: center;">  <p><small>P.O. BOX 22725 LOVELL FIELD - CHATTANOOGA, TN, 37422</small></p> </div> <div data-bbox="997 1422 1220 1512" style="border: 1px solid black; padding: 5px; margin-left: 200px;"> WO# M2714 DATE 07/8/02 </div> <p>Performed annual inspection IAW 14 CFR 43 appendix D and Cessna 182 Maintenance Manual 182SMM06 Rev. 6, with the following actions taken:</p> <ul style="list-style-type: none"> • Compression checks: #1 78/80, #2 74/80, #3 72/80, #4 72/80, #5 74/80, #6 72/80 • Drain oil, removed filter cut open and checked for metal, non-noted. Installed new CH48110 filter and safied. Serviced engine with 9qts. Aeroshell 100W oil. • Removed spark plugs cleaned, gapped, tested, and reinstalled • Removed injectors, cleaned, and reinstalled <p>I certify that this engine has been inspected IAW an annual inspection and has been found airworthy and is approved for return to service. END</p>	
			<div data-bbox="981 1780 1316 1892" style="text-align: center;">  </div> <p align="center">Timothy D. Babb A&P 408398596 IA</p>

MAINTENANCE RECORD

DATE	TC
19__	IA
	HOI



N417RG
TACH 516.9

WO# M2809
DATE 10-17-02

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

Ran engine, Drained oil and removed filter. Cut filter to check for metal, none noted at this time. Replaced engine crankshaft gear retaining bolt IAW Cessna SB02-71-03/ Lycoming MANDATORY Service Bulletin No. 554 using Kit No. 05K19987. Engine serviced with (9) Qts Aeroshell 100 oil and new CH48110 oil filter. Engine ran, no leaks noted. Cowled.

Work performed under Star Avionics Maintenance Dept W.O. M2809. IAW Lycoming & Cessna M/M. Engine returned to service for work performed. END

Gene Krugh
Gene Krugh 413805736 A&P

4/30/03 N417RG LYC IO-540-AB1A5 S/N L-26308-48A
TACH TIME: 547.0 TTSN: 547.0

DRAINED OIL. REMOVED OIL FILTER. CUT FOR INSPECTION, NO METAL NOTED AT THIS TIME. INSTALLED NEW OIL FILTER CH48110. FILLED WITH AEROSHELL W100 50 WT OIL. GROUND RAN ENGINE, NO LEAKS DETECTED. APPROVED FOR RETURN TO SERVICE.

MARK R. HOWLAND AP371860514
AVIATION SPECIALISTS, INC

Mark R. Howland

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

DATE	TOTAL TIME IN SERVICE	
	HOURS	TACH
2003 4/30		
8-18	555.0 660.5	TACH 660.5

*Performed an annual inspection per FAR 43 appendix D. Compression checks: 1) 75/80 2) 77/80 3) 74/80 4) 74/80 5) 75/80 6) 77/80
cleaned gapped & tested plugs replaced points in Right & left mag and timed. AD 2003-14-03 N/A C/W AD 2002-26-01 IAW Lycoming SB 3420. AD's and bi-waxyls checked through this date. END.*

I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.

DATE: 8-18-03 TACH TIME: 555.0

Wayne P. [Signature] AIP #15485957EA

MAINTENANCE RECORD

DATE 2004	TOTAL TIME IN SERVICE HOURS	1-9-04 TACH TIME: 580.0	N417RG TOTAL TIME: 580.0	LYC 10-540-AB1A5 CUT OLD FILTER AND INSPECTED. NO METAL NOTED. REPLACED EGT PROBE P/N 86316.	S/N L-26308-48A GROUND RAN ENGINE. NO LEAKS DETECTED. OPS CHECKS NORMAL. APPROVED FOR RETURN TO SERVICE.	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
					MARK R. HOWLAND AP371860514 AVIATION SPECIALISTS, INC	

H-	348.0	Performed annual inspection Per FAR 43 appendix D, Compression Check. ① 7/50 ② 7/50 ③ 7/50 ④ 7/50 ⑤ 7/50 ⑥ 7/50			
T-	630.6	Replaced all spark plugs P/N REM 35 E. 9w AD 2002-26-01 IAW SB342D. AD's + Bi weblaps checked through this date, changed oil + filter. Serviced with 8 qts Aeroshell 100W JCH148110 filter. END.			
9/5/04					


I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.
DATE: 9-8-04 TACH TIME: 630.6

Wayne Price ATP #1548567 IA

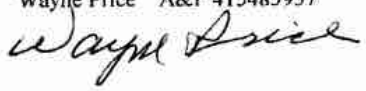
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2005 19				
H	797.4		Changed oil + Filter w/7QTS Aeroshell 100 + CH48110-1 Filter. END R. J. DiPuma 2/26/05	
T	673.17			
10/4/05	708.1		Performed annual inspection Per FAR 43 appendix D, Compression Check #1 7/50 #2 7/50 #3 7/50 #4 7/50 #5 7/50 #6 7/50	
	836.7		Changed oil + filter serviced with 7 qts aeroshell 100W and CH48110-1 filter. 9w AD 2002-26-01 IAW 9w AD 2002-26-01 IAW SB342D. AD's + bi weblaps checked through this date. END.	
			I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.	
			DATE: <u>10-4-05</u> TACH TIME: <u>708.1</u> <i>Wayne Price ATP #15485957 IA</i>	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Part # 156148-434 NRIT 10-02 N417RG 11/26/06 IO540 AB1A5 S/N 26308-48A 745.7 TT Engine disassembled, cleaned, inspected and reassembled I/A/W Lycoming overhaul manual. Crankshaft replaced with new unit from Lycoming. Other new parts installed: main bearing, rod bearing, rod bolts, rod nuts, crankshaft gear bolt, piston rings, piston pin plugs, mag cushions, intake hoses, oil return hoses, gaskets, and seals. This engine is approved for return to service.  Carlus Gann P415967791	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			11 DEC 2006 N417RG Engine This Engine was removed then re-installed after work performed by Carlus Gann, IAW Cessna and Lycoming M/M. Note: New Crankshaft Serial Batch control # V5379942246, C/W Cessna SEB06-2 & Lycoming Mandatory SB # 569 for crankshaft retirement. Engine serviced with (8) Qts Aeroshell Mineral 80W and new Oil Filter AA4810. Performed Annual Inspection Per FAR 43 Appendix D and Cessna 182S Inspection Guides with the following action taken. Installed Propeller after Overhaul from Atlanta Propeller Service, Inc (See 8130-3). Engine ground ran and adjusted. No leaks noted at this time. Aircraft TEST Flight performed by Customer and found to be within limits. AD'S & Bi-weekly checked to this date. I Certify this Aircraft has been Inspected IAW With an Annual Inspection and found to be in an Airworthy Condition and approved for return to service. Work performed under Star Avionics Maintenance Dept Work Order M3965. END	Tach 745.7 WO M3965
			Wayne Price A&P 415485957 	

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number MS- 291454	
4. Organization Name and Address: LYCOMING ENGINES 652 OLIVER STREET WILLIAMSPORT, PA 17701					5. Work Order, Contract or Invoice Number: 191/229374		
6. Item		7. Description	8. Part Number	9. Eligibility*	10. Qty	11. Serial/Batch No.	12. Status/Work
0001		KIT-CRANKSHAFT REPLACEMEN	05K23580	10-540-AB1A5 See Remarks	00001	V5379942246	NEW
13. Remarks AIRWORTHINESS APPROVAL PARTS-FOR DOMESTIC SHIPMENTS ONLY LYCOMING A TEXTRON COMPANY United States Eligibility Block 9 indicates only one of many approved models. Numerous other models may be eligible for the same part.							
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. 14CFR 43.9 Return to Service - Other regulation in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in block 12 and described in Block 13 was accomplished in accordance with Title 14 Code of Federal Regulations, Part 43. In respect to that work, the items are approved for return to service			
15. Authorized Signature 		16. Approval/Authorization No. DMIRB44023NE		20. Authorized Signature		21. Approval/Cert Number:	
17. Name (Typed or Printed): F. H. HILL JR		18. Date(m-d-y): OCT-11-2006		22. Name (Typed or Printed):		23. Date(m-d-y):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must be updated with an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

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			<p>I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>12-11-06</u> TACH TIME: <u>745.7</u> <i>Wayne Pinaud 415455957</i></p>	
<i>12/11/08</i>	<i>769.0</i>		<p>This engine inspected with an annual inspection I/A/W FAR 43 Appendix D with the following action + or repairs, compression ck. #1 $\frac{15}{80}$ #2 $\frac{16}{80}$ #3 $\frac{15}{80}$ #4 $\frac{17}{80}$ #5 $\frac{18}{80}$ #6 $\frac{16}{80}$, Tightened + or retorqued starter rear housing bolts, RTR bolts, nuts left exhaust swivel joint at muffler, drained oil, cut F.7 loc NO CONTAMINATION FOUND serviced with qats Aeroshell 100 + C448110 oil filter, ENS. cleaned + Runap NO leaks at this time, All AD's + Br-wedclgs CK'd thru this date. END - - - - -</p>	

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DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr. ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>1-4-08</u> TACH TIME: <u>769.0</u></p>	<i>Robert E. Sutton ADP3194823 IA</i>
			<p><i>26308-48A</i> N417RG S/N L-32915-51E-14 February 3, 2009 Tach: 798.0 Hobbs: 942.1 Total: 798.0</p> <p>Drained engine oil, removed and inspected oil filter no defects noted. Installed new oil filter p/n AA48110 and serviced engine with Aeroshell 100w oil. Removed, cleaned, inspected, gapped, tested and reinstalled all spark plugs. C/W AD 08-14-07 by inspection, no defects noted. Compression checks 1-73/80, 2-76/80, 3-76/80, 4-78/80, 5-78/80, 6-76/80. All AD's current as of this dated. I certify that this engine has been inspected in accordance with an Annual inspection and found to be Airworthy. -END-</p> <p align="right"><i>Kevin Sewell 3099965 IA</i> Kevin Sewell 3099965 I.A.</p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10th		
19__			<p>N417RG S/N: 18280231 September 14, 2009 Tach: 842.0 Hobbs: Drained engine oil, removed and inspected oil filter no defects noted. Installed new oil filter P/N: CH48110 and serviced engine with Aeroshell W100 oil. Complied with AD 2008-06-51, no defects noted. Servo P/N: 2576544-2 S/N: 70149310. This AD inspection is due at next oil change or at 892.0 Tach time.-End-</p> <p style="text-align: right;"><i>Kevin Sewell</i> 3099965 ATP Kevin Sewell 3099965 A&P</p>	
			<p>N417RG S/N: 18280231 November 11, 2009 Tach: Removed exhaust system on left and right side for replacement of exhaust seal. Installed new seal P/N: RA77611 on all cylinders. Reinstalled exhaust system as required. Replaced #2 EGT probe P/N: M-111. Replaced CHT probe P/N: S2334-3 on #2 cylinder for analog indications. -END-</p> <p style="text-align: right;"><i>Kevin Sewell</i> 3099965 ATP Kevin Sewell 3099965 A&P</p>	

MAINTENANCE RECORD

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19__			<p>N417RG S/N: L-26308-48A February 16, 2010 Tach: 848.8 Hobbs: 1000.4 Total: 848.8 Drained engine oil, removed and inspected oil filter no defects noted. Installed new oil filter P/N: AA48110 and serviced engine with Aeroshell W100 oil. Removed, cleaned, inspected, gapped, tested and reinstalled all spark plugs. AD 09-02-03 not applicable by servo installation date. Complied with AD 08-14-07 by inspection, no defects noted. Compression check 1-74/80, 2- 73/80, 3-75/80, 4-74/80, 5- 77/80, and 6-74/80. All AD's current as of this dated. I certify that this engine has been inspected in accordance with an Annual inspection and found to be Airworthy. -END-</p> <p style="text-align: right;"><i>Kevin Sewell</i> 3099965 IA Kevin Sewell 3099965 I.A.</p>	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>N417RG S/N: L-26308-48A February 16, 2011 Tach: 904.2 Hobbs: 1063.1 Total: 904.2</p> <p>Drained engine oil, removed and inspected oil filter no defects noted. Installed new oil filter P/N: AA48110 and serviced engine with Aeroshell W100 oil. Removed, cleaned, inspected, gapped, tested and reinstalled all spark plugs. Complied with AD 08-14-07 by inspection, no defects noted. Checked magneto timing and compression check 1-74/80, 2-73/80, 3-75/80, 4-74/80, 5- 77/80, and 6-74/80. All AD's current as of this dated see AD log dated February 16, 2011. I certify that this engine has been inspected in accordance with an Annual inspection and found to be Airworthy. -END-</p> <p align="right"><i>Kevin Sewell</i> 3099965 IA Kevin Sewell 3099965 I.A.</p>	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>N417RG S/N: 18280231 February 16, 2011 Tach: 904.2 Hobbs: 1066.3 Total: 904.2</p> <p>Installed AirWolf air/oil filter system IAW installation instructions. STC SA02268CH approves all work for installation. FAA form 337 has been completed as required. This aircraft is Airworthy and approved for return to service. -END-</p> <p align="right"><i>Kevin Sewell</i> 3099965 A&P Kevin Sewell 3099965 A&P</p>	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>N417RG S/N: L-26308-48A October 27, 2011 Tach: 913.6 Hobbs: 1074.8 Total: 913.6</p> <p>Drained engine oil, removed and inspected oil filter no defects noted. Installed new oil filter P/N: AA48110 and serviced engine with Aeroshell 15W50 oil. Removed, cleaned, inspected, gapped, tested and reinstalled all spark plugs. Complied with AD 08-14-07 by inspection, no defects noted. Checked magneto timing and compression check 1-74/80, 2-76/80, 3-75/80, 4-74/80, 5- 74/80, and 6-74/80. All AD's current as of this dated see AD log dated October 27, 2011. I certify that this engine has been inspected in accordance with an Annual inspection and found to be Airworthy. -END-</p> <p align="right"><i>Kevin Sewell</i> 3099965 IA Kevin Sewell 3099965 I.A.</p>	

MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
7/15 2012			<p>TACH 945.0 Hobbs 1145.2 Total 945.0 Drained engine oil, replace oil filter with oil replaced with Aeroshell 15/50. Run up no leaks</p>	

ENGINE LOG BOOK ENTRY

A.D. AIR CO.
1705 W. 10th St.
1717 S. Grand Blvd.
P.O. Box 1000
09711-0000



Date 3 April 2013 WO# 614

Type Aircraft Cessna Model 182S Reg. No. N417RG Aircraft S/N 18280231
 Aircraft Tach 962.3 Total Time 962.3 Eng. Make Lycoming Eng. Model IO540-AB1A5
 Eng. SN. L-26308-48A Eng. T/T 962.3 SMOH New

Completed Inspection per Lycoming IO540 Series Operators Manual Section 4 & Cessna 182S Insp. Program C/W Lycoming: [redacted] DNA by time of new or rework, fuel servo RSA-5AD1, Sn. 70149310 installed, no further action required at this time. [redacted] inspection of fuel injector lines and clamping per Lycoming MSB No.342F, next due 1062.3tach hrs., if clamps disturbed, or eng o/h. AD12-19-01 DNA crankshaft previously replaced. See aircraft AD report this date for complete compliance data. Engine cyl comp are as follow: 1) 77/80, 2) 78/80, 3) 78/80, 4) 77/80, 5) 78/80, 6) 78/80. Drained engine oil, inspected and cleaned eng oil filter and sump screen, ok and reinstalled, serviced eng with 9 qts. Aeroshell 15W50. Replaced the following with new: All spark plugs Champion REM38E. Ignition harness Champion M-6014R. Both magneto Champion contactor sets M3081(Mfg date 11/14/2012 & 11/12/2012, rotor gears M3828, drive end bearings M3006, oil seals M3331, brushes K3215 and L/H mag condenser M3184. Mag mount gaskets LW-12681, 62224, 2ea.. All rocker box gaskets 75906. Installed: Challenger Aviation Products Inc. STC No. SE2352CH Cleanable Oil Filter Assy., see FAA Form 337 for details this date and STC for continued airworthiness instructions. Remarks: C/W Champion/Slick 500Hr. magneto and impulse coupling inspection, R/H magneto Slick 6351 Sn. 97042410, L/H magneto Slick 6351 Sn. 97042399. Both magnetos operational check normal. Checked and cleaned all fuel screens. Washed engine external, Lubed all engine controls. Ran engine to pwr, performance normal. No leaks noted at this time. All work done per Lycoming M/M, IPC, Cessna Instruction, Champion L-1363E Rev.3 Maint & O/H Manual, Challenger oil filter STC No. SE02352CH, FAA AC43.13-1B Ch.7,8,9,10,11 as applicable. Applicable FARs and SMP. I certify that this Engine has been inspected IAW FAR Pt. 91.409 100Hr. Inspection and determined to be in airworthy condition. Flight check performance satisfactory. Dirk L. Adams A&P2834282 *Dirk L. Adams*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2013 19				
10-22 -13	948		TACH 948, Hobbs 1164.9 Drained Engine oil, Clean metal filter replace Aeroshell 100 plus	<i>Kal Mitchell</i> 204524930

ENGINE LOG BOOK ENTRY

A.D. Air Co.
4000 W. 10th St.
Billings, MT 59102
(406) 622-7777

Date 19 April 2014 **WO#** 617
Type Aircraft Cessna **Model** 182S **Reg. No.** N417RG **Aircraft S/N** 18280231
Aircraft Tach 1013.6 **Total Time** 1013.6 **Eng. Make** Lycoming **Eng. Model** IO540-AB1A5
 Eng. SN. L-26308-48A **Eng. T/T** 1013.6 **SMOH** New

Completed Inspection per Lycoming IO540 Series Operators Manual Section 4 & Cessna 182S Insp. Program C/W Lycoming: [redacted] inspection of fuel injector lines and clamping per Lycoming MSB No. 342F, next due **1113.6 tach hrs.**, if clamps disturbed, or eng o/h. **Engine cyl comp are as follow:** 1) 74/80, 2) 78/80, 3) 76/80, 4) 78/80, 5) 77/80, 6) 78/80. Drained engine oil, inspected and cleaned eng oil filter and sump screen, ok and reinstalled, serviced eng with 9 qts. Aeroshell 15W50. **Replaced the following with new:** All induction tube hose couplers Pn. 69603 (6ea.) and flange gaskets Pn. 71973 (6ea.). All cylinder head oil drain tube hose couplings Pn. SL-STD-1821 (6ea.). Upper vacuum pump drive pad seal Pn. 06A19956 and gasket Pn. 61183. **Remarks:** Removed slight movement from intake pipe connections with swaging tool Pn. 64781 per Lycoming O/H Manual paragraph 8-26. Checked and cleaned all fuel screens. Washed engine external, Lubed all engine controls. Ran engine to pwr, performance normal. No leaks noted at this time. All work done per Lycoming M/M, IPC, Cessna Instruction, Challenger oil filter STC No. SE02352CH, as applicable. Applicable FARS and SMP. I certify that this Engine has been inspected IAW FAR Pt. 91.409 100Hr. Inspection and determined to be in airworthy condition. Flight check performance satisfactory. Dirk L. Adams A&P2834282 *Dirk Adams*

MAINTENANCE RECORD

ENGINE LOG BOOK ENTRY

A.D. Air Co.
4000 W. 10th St.
Billings, MT 59102
(406) 622-7777

Date 18 June 2015 **WO#** 620
Type Aircraft Cessna **Model** 182S **Reg. No.** N417RG **Aircraft S/N** 18280231
Aircraft Tach 1037.3 **Total Time** 1037.3 **Eng. Make** Lycoming **Eng. Model** IO540-AB1A5
 Eng. SN. L-26308-48A **Eng. T/T** 1037.3 **SMOH** New

Completed Inspection per Lycoming IO540 Series Operators Manual Section 4 & Cessna 182S Insp. Program C/W Lycoming: [redacted] inspection of fuel injector lines and clamping per Lycoming MSB No. 342G, next due **1137.3 Tach Hrs.**, if clamps disturbed, or eng o/h. **Engine cyl comp are as follow:** 1) 76/80, 2) 77/80, 3) 77/80, 4) 78/80, 5) 78/80, 6) 78/80. Drained engine oil, inspected and cleaned eng oil filter and sump screen, ok and reinstalled, serviced eng with 9 qts. Aeroshell 15W50. **Replaced the following with new:** Engine starter with Hartzell Engine Technologies ERB-8011, Sn. H-P021337, per HET Installation Instruction F0326 Rev. 1/12, Lycoming SI No. 1154R FAA-Approved Starters and Alternators and M/M. **Remarks:** Checked and cleaned all fuel screens. Washed engine external, Lubed all engine controls. Ran engine to pwr, performance normal. No leaks noted at this time. All work done per Lycoming M/M, IPC, Cessna Instruction, Challenger oil filter STC No. SE02352CH, as applicable. Applicable FARS and SMP. I certify that this Engine has been inspected IAW FAR Pt. 91.409 100Hr. Inspection and determined to be in airworthy condition. Dirk L. Adams A&P2834282 *Dirk Adams*

MAINTENANCE RECORD

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

ENGINE LOG BOOK ENTRY

A.D. AIR CO.
P.O. Box 348
4711 South Road
Piquette, MI 48864-0348
(517) 464-2770



Date 1 Aug 2016 **WO#** 623 **Reg. No.** N417RG **Aircraft S/N** 18280231
Type Aircraft Cessna **Model** 182S **Eng. Make** Lycoming **Eng. Model** IO540-AB1A5
Aircraft Tach 1062.5 **Total Time** 1062.5 **Eng. T/T** 1062.5 **SMOH** New
Eng. SN. L-26308-48A

Completed Inspection per Lycoming IO540 Series Operators Manual Section 4 & Cessna 182S Insp. Program C/W
Lycoming: [redacted] inspection of fuel injector lines and clamping per Lycoming MSB No.342G, next due
1162.5 Tach Hrs., if clamps disturbed, or eng o/h. **Engine cyl comp are as follow:** 1) ~~78/80~~, 2) ~~77/80~~, 3) ~~76/80~~, 4)
~~78/80~~, 5) ~~78/80~~, 6) ~~78/80~~. Cleaned eng oil filter and sump screen, ok and reinstalled, Eng oil owner reported
 previously changed. **Replaced the following with new:** N/A **Remarks:** Checked and cleaned all fuel screens.
 Washed engine external, Lubed all engine controls. Ran engine to pwr, performance normal. No leaks noted at this
 time. All work done per Lycoming M/M, IPC, Cessna Instruction, Challenger oil filter STC No. SE02352CH, as
 applicable. Applicable FARS and SMP. I certify that this Engine has been inspected IAW FAR Pt. 91.409 100Hr.
 Inspection and determined to be in airworthy condition. Dirk L. Adams A&P2834282 *Dirk Adams*

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2016 09			Drained Engine oil, Cleaned oil filter metal Aerostell 100 TACH 1095, Polhb 1287	<i>Robert</i> 284-56488