

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		
1998			<i>[Signature]</i> 11-16-98	

**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-26542-48A  
DATE 7-30-1998 Wm Person  
(AUTHORIZED REPRESENTATIVE)

**TEXTRON Lycoming** 652 Oliver Street  
Williamsport, PA 17701 U.S.A.

FORM NO. 777-B (Rev. 3/94)

**MAINTENANCE RECORD**

DATE 19 <u>98</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
Sept. 14	0	0	Engine model IO-540-AB1A5, S/N <u>L-26542-48A</u> has been installed on aircraft # <u>18280363</u> This engine serviced with Phillips Aviation oil type M 20W50 weight.	FAA APPROVED UNDER FAR 21 SUBPART J The Cessna Aircraft Co. Designation Certificate No. <u>1</u> By <u>Michael D. Johnson</u> Executive Engineer Dick Peterson
5/20	26	4	Drained oil and serviced with 9 qts Phillips 20W50 TYPE M MINERAL OIL, Removed oil filter and suction screen inspected IAW SI 1492B NO EVIDENCE OF METAL CONTAMINATION WASHED ENGINE FOR Run up ops OK NO LEAKS NOTED - END - Runn Time AP450419223	
11/3/98	0	0		




**MAINTENANCE RECORD**

DATE 19 <u>99</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
6/3	68	9	Drained oil and serviced with 9 qts AeroShell 50W100 det oil c/w SI NO. 1492B by inspection of oil filter and screen. NO EVIDENCE OF CONTAMINATION INSTALLED NEW CH48110 OIL FILTER WASHED ENGINE and Run up ops checked OK NO LEAKS NOTED - END - Runn Time AP450419223	
6/14	87	5	Removed Aircraft starter motor PN. PM 2401 and SN. 80098339 and Replaced with same PN and SN. <del>85013416</del> Ground ops Check NORMAL - END - Runn Time AP450419223	
6/24	99	4	Drained oil and serviced with 9 qts AeroShell 50W100 det oil and new CH48110 Filter c/w SI NO. 1492B by inspection of filter NO CONTAMINATION FOUND - END - Runn Time AP450419223	

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DATE 19 <u>99</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
7/22/99	139	9	Drained oil and serviced with 9 Qts Aeroshell 50W100 det oil and NEW CH48110 oil filter C/W INSPECTION of filter IAW S.I. 1492B NO contamination	
			Found washed ENGINE, Run up OPS OK & NO LEAKS NOTED - END - <i>Russell Curtis AP#45049223</i>	
8-25	176.	5	Drained oil and serviced eng. with 9 Qts Aeroshell 100 50W det. oil! Installed new oil filter CH48110! C/W with inspection of oil filter T.A.W. S.I. 1492B, No contamination found! washed engine, Run up, ops o.k! No leaks noted - END - <i>John D. Bell AP#467085248</i>	

**MAINTENANCE RECORD**

DATE 19 <u>99</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p align="center">  <b>Howell's Aircraft Service</b>                      3122 Great Southwest Parkway                      Grand Prairie Texas 75052                      972-988-8609 Email <a href="mailto:Maint@howellsaircraft.com">Maint@howellsaircraft.com</a>                      N4195E                 </p> <p align="center">                      CESSNA                      STAR                      SALES                      TEAM                      AUTHORIZED                      REPRESENTATIVE                 </p>	
			Date 9/22/99 Tach 202.5 Total Time 202.5. Complied with a 100 hour inspection in accordance with Howell's Aircraft inspection form. Compression check #1 75/80 #2 74/80 #3 76/80 #4 78/80 #5 78/80 #6 74/80. AD 91-14-22 Crankshaft gear retaining bolt due at engine overhaul, prop strike, or sudden stop. AD 93-02-05 Fuel injection lines complied with by visual inspection of all fuel injection lines. AD 99-04-04 Magneto impulse coupling N/A to IO-540-AB1A5 engines. Cleaned and replaced spark plugs. Washed engine and ran to check for leaks, none noted. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.	
			<p align="center">                       Mark Howell A&amp;P244255955IA                 </p>	

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
1999 11-8	250	1	Drained oil and serviced eng. with 9qts Aeroshell 80 40w. Installed new oil filter CH48110: C/w Lycoming S.I. 1452B. Cut open old oil filter, no contamination found. washed eng. Performed eng. Run-up. no leaks found. Returned engine back to service. —END—	John D. Bell AP#467085248
1-6-00	290	4	Drained oil. Serviced eng. 9qts Aeroshell 80 40w. Installed new oil filter CH48110: C/w Lycoming S.I. 1452B. Cut open old oil filter no contamination found. washed eng. Performed eng. Run-up. no leaks found. Returned engine back to service. —END—	John D. Bell AP#467085248

MAINTENANCE RECORD

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DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2000 2-23	322	8	C/w Cessna S.B. 99-37-01, the column kit mod. All work done I.A.W. Service Bulletin. C/w Cessna S.B. 00-7-01, replacement of oil pressure switch. All work done I.A.W. S.B. —END—	John D. Bell AP#467085248



Howell's Aircraft Service  
3122 Great Southwest Parkway  
Grand Prairie Texas 75052  
972-988-8609 Email Maint@howellsaircraft.com



N4195E  
Date 3/16/2000 Tach 331.7 Drained oil and filled with 9 quarts of Aeroshell 100w50 and installed CH48110 oil filter. Installed oil quick drain, PN CCB-3700. Washed engine and ran to check for leaks, none noted.

*Russell Vines*  
Russell Vines A&P450419223

### MAINTENANCE RECORD



DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 Email <a href="mailto:Maint@howellsaircraft.com">Maint@howellsaircraft.com</a>	
			N4195E Date 4/19/2000 Tach 350.1 Drained oil and filled with 9 quarts of Aeroshell 100W50 and installed CH48110 oil filter. Washed engine and ran to check for leaks, none noted. John Bell A&P467085248	

		Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 Email <a href="mailto:Hasparts@juno.com">Hasparts@juno.com</a>	
		N4195E Date 8/18/2000 Tach 387. Drained oil and filled with 10 quarts of Aeroshell 100w50 and installed CH48110 oil filter. Washed engine and ran to check for leaks, none noted. Joe Swanson A&P506215543	



### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 Email <a href="mailto:Hasparts@juno.com">Hasparts@juno.com</a>	
			Registration: N4195E      Date 11/13/2000      Tach 436.4      Total Time 436.4  Complied with an annual inspection in accordance with Howell's Aircraft inspection form. <ul style="list-style-type: none"> <li>• Compression check #1 76/80 #2 76/80 #3 74/80 #4 78/80 #5 78/80 #6 76/80.</li> <li>• Drained oil and filled with 9 quarts of Aeroshell 100w50 and installed CH48110 oil filter.</li> <li>• Cleaned and gapped spark plugs.</li> <li>• Checked magneto timing.</li> </ul> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <ul style="list-style-type: none"> <li>• Complied with SB99-71-01, by inspection of oil filter.</li> <li>• C/W AD93-02-05 in accordance with Textrol Lycoming SB342C, by visual inspection of fuel lines and clamps. Pressure test okay. No leaks noted.</li> </ul> </div> <div style="text-align: right;">                         Next due at tach 486.4                          Next due at tach 536.4.                     </div> </div> Washed engine and ran to check for leaks, none noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. Russell Vines A&P4504192231A	



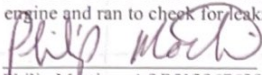


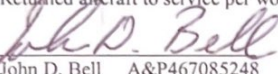
### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOUR:	<div style="border: 1px solid black; padding: 5px;">  <div style="text-align: center;">                     Howell's Aircraft Service                      3122 Great Southwest Parkway                      Grand Prairie Texas 75052                      972-988-8609 Email <a href="mailto:Hasparts@juno.com">Hasparts@juno.com</a> </div>  </div> <p>N4195E                      Date 4/11/2001 Tach 477.6 Drained oil and filled with 9 quarts of Aeroshell 50w100 and installed CH48110 oil filter. Complied with SB99-71-01, by inspection of oil filter, nextdue at tach 527.6. Washed engine and ran to check for leaks, none noted. Operational check okay.</p> <p><i>Russell Vines</i>                      Russell Vines A&amp;P450419223</p>	



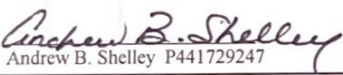
### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOUR:	<div style="border: 1px solid black; padding: 5px;">  <div style="text-align: center;">                     Howell's Aircraft Service                      3122 Great Southwest Parkway                      Grand Prairie Texas 75052                      972-988-8609 Email <a href="mailto:Hasparts@juno.com">Hasparts@juno.com</a> </div>  </div> <p style="text-align: center;">Registration: N4195E Date: 01/08/2002 Tach: 530.0 Total time SMOH: 530.0</p> <p>Complied with an annual inspection in accordance with Howell's Aircraft inspection form.</p> <ul style="list-style-type: none"> <li>* Compression check #1 78/80 #2 73/80 #3 74/80 #4 76/80 #5 76/80 #6 77/80.</li> <li>* Drained oil and filled with 9 quarts of Aeroshell 40w80 and installed oil filter, CH48110.</li> <li>* Inspected and cleaned fuel screens.</li> <li>* Cleaned and gapped spark plugs.</li> <li>* Checked magneto timing.</li> </ul> <p style="text-align: right;">* Complied with AD93-02-05, by visual inspection of fuel injection lines and clamps. No leaks noted      Next due at tach 630.0.</p> <p>Washed engine and ran to check for leaks, none noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> <p><i>Russell Vines</i>                      Russell Vines A&amp;P450419223IA</p>	



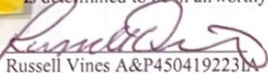
### MAINTENANCE RECORD



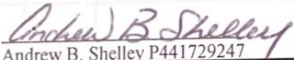
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				
			Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609	
			N4195E Date 04/04/2002 Tach 563.9 Serviced engine with 9 quarts of Aeroshell 50w100 and installed oil filter, CH48110. Washed engine and ran to check for leaks, none noted. Operational check okay. Returned aircraft to service per work performed.	
			 Philip Martin A&P512867628	
			Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a>	
			N4195E Date 07/25/2002 Tach 589.5 Serviced engine with 9 quarts of Aeroshell 50w100 and installed oil filter, CH48110. Complied with SB99-71-01, cut oil filter and inspected for metals. Washed engine and ran to check for leaks, none noted. Operational check okay. Returned aircraft to service per work performed.	
			 John D. Bell A&P467085248	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				
			Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a>	
			N4195E Date 12/06/2002 Tach 632.6 Serviced engine with 9 quarts of Aeroshell 50w100 and installed oil filter, CH48110. Complied with SB99-71-01 by visual inspection of oil filter. Next due at tach 682.6. Washed engine and ran to check for leaks. Operational check okay. Returned aircraft to service.	
			 Andrew B. Shelley P441729247	

### MAINTENANCE RECORD


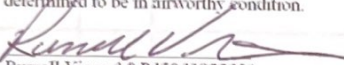
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS    10ths		
		 <p>Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a></p>  <p>Registration: N4195E Date: 01/20/2003 Tach: 640.0 Total time SMOH: 640.0</p> <p>Complied with an <u>annual</u> inspection in accordance with Howell's Aircraft inspection form:</p> <ul style="list-style-type: none"> <li>* Compression check #1 78/80 #2 10/80 #3 76/80 #4 78/80 #5 74/80 #6 76/80.</li> <li>* Removed #2 cylinder, sent to Sentry Cylinders for repair per work order #32869, and reinstalled.</li> <li>* Serviced engine with 9 quarts of Aeroshell 40w80 Mineral for cylinder brake-in and installed oil filter, CH48110.</li> <li>* Complied with visual inspection of exhaust system</li> <li>* Inspected and cleaned fuel screens.</li> <li>* Cleaned and gapped spark plugs.</li> <li>* Checked magneto timing.</li> </ul> <p>* Complied with AD2002-26-01, by visual inspection of fuel injection lines and clamps. No leaks noted      Next due at tach 740.0.</p> <p>Washed engine and ran to check for leaks, none noted. I certify that this engine has been inspected in accordance with an <u>annual</u> inspection and is determined to be in airworthy condition.</p> <p> Russell Vines A&amp;P4504192231A</p>	

MAINTENANCE RECORD			
DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS    10ths		
		 <p>Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a></p>  <p>N4195E Date 04/29/2003 Tach 656.7 Drained engine oil and serviced with 9 quarts of Aeroshell 50w100 and installed oil filter CH48110. Complied with SB99-71-01 by visual inspection of oil filter. Next due at tach 706.7. Washed engine and ran to check for leaks. Performed operational check. Check okay. Returned aircraft to service per work performed.</p> <p> Andrew B. Shelley P441729247</p>	

Barrel Channel Chrome  
 Ejector Nozzle  Metalized  
 Rocker Ears Rebrushed  
 Build to Valve Assembly  
 Build to Complete Assembly  
 Build to Stud Assembly



### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			<div style="text-align: center;">  <p>Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 <a href="mailto:parts@howellsaircraft.com">parts@howellsaircraft.com</a></p> <p>Registration: N4195E Date: Feb 06, 2004 Tach: 711.1 Total time: 711.1</p> <p>Complied with an <u>100hr</u> inspection in accordance with Howell's Aircraft inspection form:</p> <ul style="list-style-type: none"> <li>* Compression check #1 78/80 #2 77/80 #3 78/80 #4 73/80 #5 78/80 #6 78/80</li> <li>* Serviced engine with 9 quarts of Aeroshell 50W100 det oil and installed oil filter, CH48110</li> <li>* Complied with visual inspection of exhaust system</li> <li>* Inspected and cleaned fuel screens</li> <li>* Installed 12 new REM138E spark plug's</li> <li>* Checked magneto timing</li> </ul> <p>* Complied with AD2002-26-01, by visual inspection of fuel injection lines and clamps. No leaks noted. Next due at tach 811.1</p> <p>Washed engine and ran to check for leaks, none noted. I certify that this engine has been inspected in accordance with an <u>100hr</u> inspection and was determined to be in airworthy condition.</p> <p> Russell Vines A&amp;P4504192231A</p> </div>	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<div style="text-align: center;">  <p><b>Van Bortel Aircraft Inc.</b> 4912 S. Collins St., Arlington, TX 76018      FAA CRS VNF171L <b>N4195E TACH 726.5 DATE 4/20/04 W.O. SV0592</b> ENGINE: IO-540-AB1A5 S/N: L-26542-48A</p> <p>COMPLIED WITH AD <b>2004-05-24</b> (3/30/04) BY REPLACEMENT OF CRANKSHAFT GEAR BOLT WITH LYCOMING BOLT KIT P/N: 05K19987. NEW BOLT INSTALLED IN ACCORDANCE WITH SB 475C. OIL AND FILTER CHANGED. CW SB 480D OIL, OIL FILTER AND SUCTION SCREEN INSPECTION. SERVICED WITH AEROSHELL 100W AND CH48110-1. PERFORMED 500 HOUR INSPECTION ON LEFT AND RIGHT MAGNETOS S/N: 98061353, 98061355.</p> <p>THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK ABOVE. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER THIS WORK ORDER.</p> <p> PAUL PARK CHIEF INSPECTOR</p> </div>	

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>Date: 08-16-2004, Aircraft: N4195E, Type: 182S, S/N: 80363                      Drained oil. Serviced with A/S 100W oil. Replaced oil filter with new unit.                      Inspected and serviced battery.</p> <p>Above listed maintenance and/or inspections completed by Monarch Air repair station under below referenced work order(s).</p> <p>Date: 08-16-2004, Work Order: SO-04483, Tach Time: 767.1</p> <p>I also certify that the above listed repairs are airworthy and that the aircraft is approved for return to service.</p> <p>Signed: <u><i>Timothy J. Todd</i></u> Timothy J. Todd                      CRS MNGR501G Monarch Air (972) 931-0345</p>	

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>Date: 12/13/2004, Aircraft: 4195E, Type: 182S, S/N: 80363; 1998                      Changed oil and filter, serviced with Aeroshell 15W50 and installed CH48110-1 filter                      Above listed maintenance and/or inspections completed by Monarch Air repair station under below referenced work order(s).</p> <p>Date: 12/10/04 Work Order: 4832 Total Time:799.3</p> <p>I certify that the above repairs are airworthy and that the aircraft is approved for return to service.</p> <p>Signed: <u><i>[Signature]</i></u>                      CRS MNGR501G Monarch Air (972) 931-0345</p>	

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Date: 03/10/2005, Aircraft: 4195E, Type: 182S, S/N: 80363; 1998 Annual Inspection completed in accordance with the manufacturers inspection guide. Changed oil and filter. Serviced with Aeroshell 15W50 oil. C/W AD2002-26-01 per par (c). Next due: 923.0 Above listed maintenance and/or inspections completed by Monarch Air repair station under below referenced work order(s). Date: 03-10-2005 Work Order: SO-05001 Total Time: 823.0 I certify that this engine has been inspected in accordance with a 100 hour/Annual inspection and was found to be in airworthy condition. I also certify that the above listed repairs are airworthy and that the aircraft is approved for return to service.  Signed <u>Stew Saag</u> CRS MNGR501G Monarch Air (972) 931-0345	

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			On 06-08-05 N#4195E S/N18280363 @ A/C T.T. 870.0. Complied with 50hr Oil change. Serviced with 9 quarts Aeroshell 15w/50 Oil & Ch48110 Filter, Cleaned & Gapped Sparkplugs. All work done I/A/W Lycoming Operators Manual. Ground Run and Leak Checked Satisfactory.  <u>Pat Pennington AP456611219JA</u> <b>Aero Tech Services Dallas Tx. 214-728-9007</b>	

On 08/10/05 N# 4195E S/N 18280363 @ A/C.T.T. 915.3.  
 Complied with 50hr Oil and Filter Change. Drained  
 Oil and Removed Filter. Serviced with 9 quarts Aeroshell  
 15W/50 Oil and CH 48110 Filter. All work done I/A/W  
 Lycoming Operators Manual. Ground Run and Leak  
 Checked Satisfactory.

On 08/19/05 N# 4195E S/N 18280363 @ Aircraft Total Time  
 922.2 Complied with AD 2002-26-01 para C. All work done I/A/W  
 Lycoming Operators Manual. Ground Run and Leak  
 Checked satisfactory. Details on file.

Pat Pennington 3058066

**Pat Pennington 3058066**  
**Aero Tech Services 214-728-9007**

Pat Pennington 3058066  
**Aero Tech Services Dallas Tx 214-728-9007**

MAINTENANCE RECORD

On 08/30/05 N# 4195E S/N 18280363 @ Aircraft Total Time 934.3 Cleaned and gapped lower sparkplugs. Installed two each New REM 38E. Sparkplugs in lower #1,#2 cylinders. All work done I/A/W Lycoming Operators Manual. Ground Run and Leak Checked satisfactory. Details on file.

*Pat Ryzhik* 3058066  
Aero Tech Services Dallas Tx. 214-728-9007

On 08/19/05 N# 4195E S/N 18280363 @ Aircraft Total Time 922.2 Complied with AD 2002-26-01 par.C. @ a/c t.t. 934.3. Cleaned lower sparkplugs and installed 2ea new REM 38E sparkplugs. @ a/c t.t. 939.9. Installed Pilot seat slide lock assy. All work done I/A/W Lycoming Operators Manual and Cessna 182 M.M. Ground Run and Leak Checked Satisfactory. Details on file.

*Pat Ryzhik* 3058066  
Aero Tech Services Dallas Tx. 214-728-9007

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On 12-08-05 N# 4195E S/N 18280363 @ Aircraft Tach Time 965.7 Complied with 50hr Oil and Filter Change. Drained Oil and Removed 7 inspected Filter. Serviced with 9 quarts Aeroshell 15W/50 Oil and CH 48110 Filter. Complied with SB05-37-01A on Vacuum pumps and found N/A due to P/N. Complied with SB05-28-01A. Found satisfactory. Complied with AD 84-26-02. Airfilter replacement. All work done I/A/W Lycoming Operators Manual Ground Run and Leak Checked Satisfactory.

*Pat Ryzhik* AP 3058066 IA  
Aero Tech Services Dallas Tx. 214-728-9007

On 12-26-05 N#4195E S/N 18280363 @ Aircraft Total Time 1087.9. Customer reports rough Magneto. Cleaned lower sparkplugs and installed 1ea new sparkplug. I certify that this aircraft has been inspected I/A/W Continental Maintenance Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Ryzhik* AP 3058066  
Aero Tech Services Dallas Tx. 214-728-9007

MAINTENANCE RECORD

On 04-08-06 N#4195E S/N 18280363 @ Aircraft Total Time 995.8. C/W 100hr/Annual engine insp. C/W 500hr Magneto insp. C/W oil and filter change. Compression checked satisfactory #1 74/80 #2 70/80 #3 74/80 #4 75/80 #5 76/80 #6 76/80. C/W AD2002-26-01. Cleaned and gapped sparkplugs. Cleaned throttle body. Installed new points in R/H Magneto. Installed new mag drive bushings and adjusted mag timing. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual and was found to be in airworthy condition. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Ryzhik* AP 3058066  
Aero Tech Services Dallas Tx. 214-728-9007

On 05-18-06 N#4195E S/N 18280363 @ Aircraft Total Time 1025.0. Installed 1ea new EGT probe P/N 86316/P and repaired wires at connector and function checked satisfactory. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Ryzhik* AP 3058066  
Aero Tech Services Dallas Tx. 214-728-9007

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On 03/10/2007 N#4195E S/N 18280363 @ Aircraft Tach Time 1102.2. Complied with STC SE09445SC Gamijectors installation. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File. Ref. 337 dated 03/10/2007.

*Pat Ryzhik* AP 3058066 IA  
Aero Tech Services Dallas Tx. 214-728-9007

On 05/01/07 N#4195E S/N 18280363 @ Aircraft Total Time 1248.8. C/W 100hr/Annual engine insp. Complied w/ Oil & Filter Change. Serviced with 9qts Aeroshell 15w/50 and CH48110 filter. Compression checked satisfactory - All Checked above 70/80. Adjusted Magneto Timing. Installed New REM38E sparkplugs. Complied with AD 2002-26-01 Fuel Injector Lines. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual and was found to be in airworthy condition. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Ryzhik* AP 3058066 IA  
Aero Tech Services Dallas Tx. 214-728-9007

On 09-14-07 N#4195E S/N 18280363 @ Aircraft Tach Time 1155.7. Complied with oil and filter change. Serviced with 9 quarts Aeroshell 15 w/50 Oil and CH48110. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066*  
Aero Tech Services Dallas Tx. 214-728-9007

On 03-14-08 N#4195E S/N 18280363 @ Aircraft Tach Time 1208.0. Complied with oil and filter change. Serviced with 9 qts Aeroshell 15 w/50 Oil and CH48110. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066*  
Aero Tech Services Dallas Tx. 214-728-9007

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On 06/03/08 N#4195E S/N T18280363 @ A/C T.T. 1228.7 C/W 100hr/Annual Airframe Insp. & Lubrication. Installed New Vacuum Filter P/N RAB3-5-1. C/W FAR 91.207D ELT. AD 76-07-12 Magneto switch. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066 IA*  
Aero Tech Services Dallas Tx. 214-728-9007

On 07/08/08 N#4195E S/N T18280363 @ A/C T.T. 1256.6. C/W 50hr Oil & Filter Change. Serviced with 9qts Aeroshell 15w/50 Oil and CH48110 Filter. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066*  
Aero Tech Services Dallas Tx. 214-728-9007

On 01/19/09 N#4195E S/N 18280363 @ A/C T.T. 1375.5. Installed New Battery, P/N RG24-11M S/N 40268866. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066*  
Aero Tech Services Dallas Tx. 214-728-9007

On 05-18-09 N#4195E S/N T18280363 @ A/C Tach Time 1315.9. Removed Alternator P/N 9910591-11, S/N A-131433. Installed New Alternator P/N 9910591-11, S/N A-184232. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and Cessna 182 Maintenance Manual. Ground Run and Leak Checked Satisfactory. Details on File.

*Pat Knight AP3058066*  
Aero Tech Services Dallas Tx. 214-728-9007

ATURE.  
YPE

**FAULKNER'S AIR SHOP, INC.**

P.O. Box 1147 Burnet Airport (BMQ)  
 Burnet, TX. 78611

Reg. #	Date	Make	Model	Ser. #	Total Time	Tach Time
N4195E	4/10/2009	Lycoming	IO-540-AB1A5			1301.2

Changed oil and filter. Cleaned finger screen. Serviced with Aeroshell 15W50. Washed down engine. Ran and checked for leaks. Removed alternator. Tightened alternator case bolts, re-safety wired and reinstalled. Ran and checked operation.

*Dale R Faulkner*

Dale R. Faulkner  
 A&P1993252

**MAINTENANCE RECORD**

On 09/17/09 N4195E S/N T18280363 @ A/C T.T. 1339.0.  
 Complied With **100hr/Annual Engine Insp.** C/W 50HR Oil & Filter Change. Serviced w/9qts Aeroshell 15W50 Oil & AA48110 Filter. Compression check satisfactory #1-75/80; #2-69/80; #3-74/80 #4-74/80; #5-74/80; #6-75/80. Adjusted LH Magneto Timing. Cleaned & Gapped Spark Plugs. Cleaned Fuel Strainer. C/W AD 2002-26-01 Fuel Injection Lines. C/W AD 98-13-10 Exhaust System I certify that this aircraft has been inspected I/A/W Cessna 182 MM & Lycoming Operators Manual and was found to be in airworthy condition. Ground Run and Leak Checked Satisfactory. Details on File.  
*Pat Ryz* to AP3058066IA  
**Aero Tech Services Dallas TX. 214-728-9007**

On 03/17/10 N4195E S/N:18280363 @ Aircraft Tach Time 1378.0. <sup>URE.</sup>  
 Complied With **50hr Oil & Filter Change.** Serviced with Aeroshell <sup>PE</sup> 15W/50 & P/N:AA48110-2 Filter. Installed New Oil Pressure Switch P/N:83278. I Certify That This Aircraft Has Been Inspected I/A/W Cessna 182 Maintenance Manual and Lycoming IO-540 Operators Manual And Was Found To Be In Airworthy Condition. Ground Run and Leak Checked Satisfactory. Details On File.  
*Pat Ryz*  
**Aero Tech Services Dallas, TX 214.728.9007**

On 8/13/2010 N4195E S/N T18280363 @ A/C T.T. 1413.6.  
**C/W 50HR Oil & Filter Change.** Serviced with Aeroshell 15W50 Oil & AA48110 Filter. C/W Oil Analysis. I certify that this aircraft has been inspected I/A/W Cessna 182 MM & Lycoming Operators Manual and was found to be in airworthy condition. Ground Run and Leak Checked Satisfactory. Details on File.  
*Pat Ryz* to AP3058066IA  
**Aero Tech Services Dallas TX. 214-728-9007**

On 10/8/2010, N4195E S/T18280363 @ Aircraft Total Time 1422.3.  
**C/W 100hr/Annual Engine Inspection.** Compression; #1 75/80, #2 73/80, #3 65/80, #4 75/80, #5 71/80, #6 71/80. Installed new Spark Plugs, P/N UREM38E. Cleaned Fuel Injectors. Checked Magneto Timing. Cleaned Fuel Strainer. Installed New Manifold Pressure Hose. I certify that this aircraft has been inspected I/A/W Lycoming Operators Manual and the Cessna 182 Maintenance Manual and was found to be in airworthy condition. Ground Run and Leak Check Satisfactory. Details on file.  
*Pat Ryz* to AP3058066IA  
**Aero Tech Services Dallas TX. 214-728-9007**

On 02/14/11 N4195E S/N 18280363 @ A/C T.T. 1636.7.  
 Complied with **50HR Oil & Filter Change.** Serviced w/12qts DA1 Aeroshell 15W50 Oil & AA48110 Filter. C/W Oil Analysis. I certify that this aircraft has been inspected I/A/W Cessna 182 MM & Lycoming Maintenance Manual and was found to be in airworthy condition. Ground Run and Leak Checked Satisfactory at this time. Details on File.  
*Pat Ryz*  
**Aero Tech Services Dallas TX.**

**WORK RECORD**

WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

ENGINE MODEL: IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: 4195E  
 WORK ORDER: 0111



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 2/10/2012  
 A/C TSN: 1487.9  
 ENG TT: 1487.9  
 TACH: 1487.9

**Engine Entries**

Troubleshoot rough running engine... Troubleshot rough running engine, did compression check and found #5 cylinder exhaust valve stuck and #2 sticking.- Check compressions... Complied with compression check: #1 74/80 #2 75/80 #3 72/80 #4 74/80 #5 /80 #6 75/80.- Remove engine for crankshaft AD 2006-20-09. Send engine to Custom Air Motive... Removed all necessary engine components to facilitate removal of engine, removed engine and placed on cradle to send engine to Custom Air Motive for AD 2006-20-09.- Comply with repair of engine by Custom Air Motive... Complied with SB 566/SB 569 engine repair by Custom Air Motive.- Comply with 50 hour oil and filter change using mineral oil... Complied with 50 hour oil and oil filter change. Serviced engine with 9 qts Aeroshell 100 mineral oil.- Comply with 500 hour magneto inspection... Complied with 500hr magneto inspection. Replaced 1ea carbon brush and 1ea contact point set per magneto, cleaned, inspected reassembled and reinstalled.- Comply with AD 93-02-05 Inspection of Fuel Injector Lines and Clamps... Complied with AD 93-02-05 Inspection of Fuel Injector Lines and Clamps.- Comply with AD 76-07-12 Mag Switch... Complied with AD 76-07-12 Mag Switch.- Comply with a 100hr/Annual Engine Inspection... Complied with 100hr/Annual Inspection of Engine. Checked magneto timing and cleaned fuel strainer. Cleaned, gapped and checked all spark plugs.- Comply with AD 98-13-10 Exhaust System Check... Complied with AD 98-13-10 exhaust system check found serviceable at this time.- All CHT probes difficult to remove, even with lubricant... Cleaned threads on CHT probes as needed- Engine oil temp gauge lead broken... Repaired engine oil temp gauge lead with ring connector- Flush engine oil cooler... Complied with cleaning and test of engine oil cooler by United Accessory- 3 spacers missing from oil cooler... Installed 3 new oil cooler spacers at time of engine installation.- Reinstall engine after repair by Custom Air Motive... Reinstalled engine after repair by Custom Air Motive on aircraft.- Engine oil drain valve seal cracked... Installed new oil drain valve

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0111.

DATE: 2/10/2012

SIGNED: *Pat Ryz* to AP3058066IA

Work Order: 0111

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19		

TT 1487.9 TSMOH 1487.9 Jan. 10, 2012

IO-540-AB1A5 S/N L-26542-48A WO# 22616

This engine was disassembled only enough to facilitate the replacement of the crankshaft to c/w SB552,566 & 569 & a complete cylinder service limit "top overhaul" (cylinders are the original & reworked as necs. w/standard nit./steel bores).

Applicable parts were cleaned, inspected & reworked as necessary to ascertain airworthiness.

Note:

A.D.# Method of compliance

02-19-03 C/W SB552; used new crankshaft s/n V537955784.

04-05-24 C/W SB554; used new bolt p/n STD2247.

04-10-14 C/W SB475C; gear mod., insp. & retention.

05-19-11 C/W SB566; used new crankshaft s/n V537955784.

06-20-09 C/W SB569A; used new crankshaft s/n V537955784.

11-26-04 C/W SB342F; lines insp. & secured.

Engine was reassembled I/A/W Lycoming overhaul manual 60294-7-12, test ran on a stand and found ready for return to service. Pertinent details are on file at this station under order no. 22616; parts replaced are listed on attached work order.

*Mark D. Lickteig*

Mark D. Lickteig for CRS# DC2R763K.

Custom Airotive, Inc.  
 FAA REPAIR STATION #DC2R763K  
 AIRCRAFT ENGINE SERVICE  
 2702 N. SHERIDAN BLDG. B  
 TULSA, OK 74115  
 (918) 836-6836  
 FAX (918) 836-9431

ENGINE MODEL:  
 IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: 4195E  
 WORK ORDER: 0197

**Aero Tech Services**

4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 4/23/2012  
 A/C TSN: 1487.9  
 ENG TT:  
 TACH:

**Engine Entries**

Troubleshoot Cylinder #4 EGT slow to indicate... Swapped cylinder #4 and cylinder #6 EGT leads. Ran aircraft, found cylinder #4 EGT probe bad. Replaced cylinder #4 EGT probe. Ground ran aircraft, found satisfactory at this time. Comply with 25 hour oil change... Complied with 25 hour oil change. Oil pressure adjuster leaking engine oil.... Tightened Oil pressure adjuster housing in engine case. Ground ran aircraft, leak checked satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0197.

DATE: 4/23/2012

SIGNED:

Pat Pennington, A&P: 3058066

Work Order: 0197

Printed by EBis 3 (datcomedia.com)

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

ENGINE MODEL:  
 IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: 4195E  
 WORK ORDER: 0288



**Aero Tech Services**

4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 8/16/2012  
 A/C TSN: 1531.6  
 ENG TT:  
 TACH:

**Engine Entries**

C/W 50 Hour Oil and Oil Filter change.... Serviced engine with 8 qts A-Shell 15/50 oil and installed new CH48110-2 filter. Ground Run Leak Checked Satisfactory.- Comply with Engine Oil Analysis.... Performed as required and mailed off to get analysed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0288.

DATE: 8/16/2012

SIGNED:

Pat Pennington, A&P: 3058066

Work Order: 0288

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**MAINTENANCE RECORD**

**FAA - PMA**

This tag certifies that Sky-Tec Model No. 149-NL/ec  
 Serial No. FNE-291251 was manufactured new on 21 Jul 2012  
 by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement  
 No. 7 per CFR14 Part 21 in accordance with Sky-Tec's  
 FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and  
 conforms to the relevant FAA-approved drawings. This part has been  
 determined to be airworthy.  
 For installation eligibility see [www.skytecair.com/eligibility.htm](http://www.skytecair.com/eligibility.htm)  
 Starter installed on N 4195E by Pat Pennington  
 (Aircraft) (Mechanic)

WORK PERFORMED

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

ENGINE MODEL:  
 ENGINE S/N:  
 REG. NO: N4195E  
 WORK ORDER: 0393



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 2, 1, 13  
 A/C TSN: 1548.2  
 ENG TT:  
 TACH: 1548.2

**Engine Entries**

C/W 50hr Oil & Filter Change... C/W 50 hr oil & filter change. Serviced with 10qts Aeroshell 15w/50 Oil & AA48110-2 Filter.- C/W  
 Oil Analysis... Complied with Oil Analysis.- Look over Engine... Looked over Engine and found Sump Bolts and Nuts loose. Found  
 Rocker Cover fasteners loose.- Tighten Sump Bolts.... Checked torque and tightened all Sump fasteners as needed.- Tighten  
 Rocker Cover fasteners.... Checked torque and tightened all Rocker cover gasket fasteners as needed.- Spot Clean Engine and  
 Lower Cowling... Rinsed off oil residue from sump on engine and lower cowling.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
 Pertinent details are on file at this facility under Work Order No. 0393.

DATE: 2-1-13 SIGNED: Pat Pennington AP3058066 Work Order: 0393

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ENGINE MODEL:  
 IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: N4195E  
 WORK ORDER: 0433



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 4/15/2013  
 A/C TSN: 3103.4  
 ENG TT: 1571.8  
 TACH: 1571.8

**Engine Entries**

C/W 100 Hour Inspection of Engine... Complied with 100 hour/annual inspection of engine. Compression checked satisfactory #1  
 71/80 #2 72/80 #3 69/80 #4 74/80 #5 71/80 #6 72/80. Checked magneto timing and cleaned fuel strainer. Cleaned, gapped  
 and checked all spark plugs- C/W AD 2011-26-04 fuel injector Lines... Complied with AD 2011-26-04 Fuel Injector lines for  
 security and found satisfactory.- C/W 25hr Oil Change... Complied with 25 hour oil change. Serviced engine with 8 qts A-Shell  
 15/50 oil and Ground Run Leak Checked Satisfactory.- Air filter needs cleaned and serviced.... Cleaned and recharged with oil as  
 needed.- Oil pressure adjuster crush gasket leaking oil.... Tightened as needed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
 Pertinent details are on file at this facility under Work Order No. 0433.

DATE: 4/15/2013 SIGNED: Pat Pennington AP3058066IA Work Order: 0433

Pat Pennington, IA: 3058066

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ENGINE MODEL:  
 IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: N4195E  
 WORK ORDER: 0538



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 8/10/2013  
 A/C TSN:  
 ENG TT:  
 TACH: 1613.4

**Engine Entries**

Install New LH & RH Vacuum Pumps... Installed New LH & RH Vacuum Pumps P/N AA3215CC S/N 036B12 and P/N AA3216CW  
 S/N 01D008 and function checked satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
 Pertinent details are on file at this facility under Work Order No. 0538.

DATE: 8/10/2013 SIGNED: Pat Pennington AP3058066 Work Order: 0538

Pat Pennington, A&P: 3058066

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DATE	TOTAL TIM IN SERVICE	
	HOURS	
19__		

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER



D. ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
19. WORK ORDER: 0607



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 11/11/2013  
A/C TSN:  
ENG TT:  
TACH: 1625.8

AUTHORIZED SIGNATURE  
CERTIFICATE TYPE  
& NUMBER

**Engine Entries**

C/W 50HR Oil & Filter Change.... Complied with 50HR Oil and Filter Change. Serviced with 9qts Aeroshell 100 Plus Oil, Installed New Filter P/N AA-48110-2 as Needed. Leak Checked Satisfactory.- C/W Oil Analysis Check.... Complied with Oil Analysis.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 0607

DATE: 11/11/2013

SIGNED: *Pat Pennington* AP3058066

Work Order: 0607

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 0673



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 4/17/2014  
A/C TSN:  
ENG TT:  
TSMOH: 1648.2  
TACH: 1648.2

**Engine Entries**

Comply with 100 Hour Inspection of Engine.... Complied with 100 Hour/Annual Inspection of Engine. Compression Check #1 77/80 #2 73/80 #3 74/80 #4 76/80 #5 75/80 #6 72/80 Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- Comply with 25 Hour Oil Change.... Serviced with 9 quarts Aeroshell 100 Plus Oil.- Comply with AD 2011-26-04 Fuel Injector Lines.... Performed AD 2011-26-04 Fuel Injector Lines. Inspection found satisfactory at this time.- Comply with AD 98-13-10 Exhaust system check.... Performed AD 98-13-10 Exhaust system check.- Wash engine.... Washed engine as needed.- Clean and gap spark plugs.... Cleaned, tested and gapped spark plugs. Installed with ant seize and torqued to spec.- Fuel flow transducer loose on bracket.... Positioned fuel flow transducer as needed and tightened.- Engine baffle to cabin heat muff needs RTV applied to chaffed areas around upper engine mount.... Applied RTV to engine baffle to heat muff Scat hose as needed prevent chaffing.- RH & LH exhaust outlet pipes loose @ muffler clamps.... Replaced RH & LH exhaust outlet pipe clamps with new hardware.- Mechanical Fuel Pump leaking fuel out of overboard drain.... Installed new fuel pump. Transferred Fittings to new fuel pump and installed with new Orings. Function and fuel check satisfactory.- Comply with Oil Analysis.... Complied with Oil Analysis.- Tachometer cable needs lubricated.... Tachometer cable lubricated as needed.- Fuel Flow Divider overboard Drain Hose needs grommet @ Engine Baffle.... Replaced grommet for fuel flow divider overboard drain hose as needed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 0673

DATE: 4/17/2014

SIGNED: *Pat Pennington* AP3058066IA

Work Order: 0673

MAKE: Cessna  
MODEL: 182S  
S/N: 18280363  
REG. NO: N4195E  
WORK ORDER: 0695



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 6/25/2014  
A/C TSN:  
TACH: 1662.9

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

**Airframe Entries**

Troubleshoot airspeed indicator In-op.... Found Airspeed indicator In-op. Removed and sent out for overhaul by Air Dallas Instruments. Reinstalled after OH and function checked satisfactory.- Install new davtron clock battery.... Removed unit and installed new AA battery and reinstalled unit and function checked satisfactory.- C/W Pitot Static System Check.... Performed by Wriston Aviation and found satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 0695

DATE: 6/25/2014

SIGNED: *Pat Pennington* AP3058066  
Pat Pennington, A&P: 3058066

Work Order: 0695  
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ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 0703



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 7/9/2014  
A/C TSN:  
ENG TT:  
TSMOH: 1687.1  
TACH: 1687.1

**Engine Entries**

C/W 50 Hour Oil & Filter Change.... Complied with 50 Hour Oil and Oil Filter Change. Serviced with 9qts Aeroshell 100 Plus Oil and Installed AA48110-2 Filter. Ground Run & Leak Checked Satisfactory.- Comply with Oil Analysis.... Complied with Oil Analysis.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 0703

DATE: 7/9/2014

SIGNED: *Pat Pennington* AP3058066  
Pat Pennington, A&P: 3058066

Work Order: 0703  
Printed by EBIS 3 (datcomedia.com)

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19		

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 0795



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 4/1/2015  
A/C TSN:  
ENG TT:  
TSMOH: 1719.8  
TACH: 1719.8

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

**Engine Entries**

C/W 100 Hour/Annual Engine Inspection.... Complied with 100 Hour/Annual Inspection of Engine. Compression Check #1 77/80 #2 75/80 #3 72/80 #4 70/80 #5 75/80 #6 73/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- C/W 50hr Oil & Filter Change.... Complied with 50 Hour Oil and Oil Filter Change. Serviced with 9qts Aeroshell 100 Plus Oil and Installed AA48110-2 Filter. Ground Run & Leak Checked Satisfactory.- C/W AD 2000-02-14 Muffler Inspection.... C/W AD 2000-02-14 By Inspection of Mufflers. Found Satisfactory at this time. Installed Placard. Inserted Copy of AD Into POH.- C/W AD 2008-26-10 Inspection of Alternate Air Valve.... C/W AD 2008-26-10 By Inspection of Alternate Static Air Valve. Found Satisfactory at this time.- C/W AD 2013-11-11 Oil Pressure Switch Inspection.... Oil Pressure Switch Replaced on 3/17/2010 at Tach 1378.0 and Due Again at 4378.0. Found serviceable at this time.- C/W AD 2011-26-04 Fuel Injector Line Inspection.... C/W AD 2011-26-04 By Inspection of Fuel Injection Lines. Found Satisfactory at this time.- C/W Engine Oil Analysis.... Complied with Oil Analysis and found satisfactory.- All Spark Plugs Worn beyond limits.... Removed and Replaced all 12ea UREM38E Spark Plugs with new.- #2 Oil Return Line Leaking.... Tightened Clamps on #2 Oil Return Line as needed.- Recommend Alternator Belt Replacement While Prop is Removed.... Replaced Alternator Belt with new.- Fuel strainer O-rings are worn beyond limits.... Replaced orings in fuel strainer with new as needed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0795.

DATE: 4/1/2015 SIGNED: *Pat Pennington* AP3058066 Work Order: 0795  
Pat Pennington, IA: 3058066 Printed by EBis 3 (datcomedia.com)

*CHANGED OIL @ 25 HRS NOT FILTER  
JULY 1*

DATE	TOT/
	IN S
19	HOUR:

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 0843



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 8/6/2015  
A/C TSN:  
ENG TT:  
TSMOH: 1782.7  
TACH: 1782.7

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

**Engine Entries**

Install new sparkplug in lower position on #6 cylinder.... Installed per customer request.- Troubleshoot oil temp fluctuation.... Found center terminal post loose in probe. Removed faulty probe & installed new probe P/N S2335-1 and function checked satisfactory.- C/W 50 Hour Oil & Filter Change.... Complied with 50 Hour Oil and Oil Filter Change. Serviced with 9qts Aeroshell 100 Plus Oil and Installed AA48110-2 Filter. Ground Run & Leak Checked Satisfactory.- C/W Oil Analysis.... Complied with Oil Analysis.


The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0843.


DATE: 8/6/2015 SIGNED: *Pat Pennington* AP3058066 Work Order: 0843  
Pat Pennington, A&P: 3058066 Printed by EBis 3 (datcomedia.com)

*12/30/15*

*CHANGED OIL, NOT FILTER 25.3 HRS  
SVC 8 QT 100 PLUS TACH 1808.1*

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	HOURS	ENGINE MODEL: 10-540-AB1AS ENGINE S/N: L26542-48A REG. NO: N4195E WORK ORDER: 0967	 <b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007	DATE: 5/4/2016 A/C TSN: 1825 ENG TT: 1825 TACH: 1825	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__			<b>Engine Entries</b> C/W 100 Hour Annual Inspection of Engine.... Complied with 100 Hour Annual Inspection of Engine. Compression Check #1 73/80 #2 72/80 #3 70/80 #4 70/80 #5 72/80 #6 73/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- Tach needle jumpy.... Removed Tach cable and housing, and cleaned Tach cable and housing and lubricated cable. Reinstalled and function checked satisfactory.- Fuel flow indicator erratic.... Cleaned Electrical connections at Fuel Flow transducer and inspected for loose wiring. None found. Reconnected and function check non erratic but reading 2 GPH high compared to engine analyzer. No further action at this time.- C/W AD 15-19-07 Fuel Injector Lines Inspection.... Complied with AD 15-19-07 Fuel Injector lines for security and found satisfactory.- C/W AD 00-02-14 Exhaust System Inspection.... Complied with AD 00-02-14 Engine Exhaust Muffler Inspection. No discrepancies found.- Air Engine Filter Needs Cleaned and Oiled.... Cleaned Engine Intake Filter and applied coat of oil as needed.- Replace engine baffle plugs.... Replaced engine baffle plugs with new plugs.- Install neoprene valve cover gaskets.... Removed all Rocker Box covers from all cylinders and removed old gaskets. Cleaned surfaces and installed new gaskets on all cylinders. Leak checked satisfactory.- Troubleshoot oil leak at rear of engine.... Troubleshoot oil leak at rear of engine and found oil sump bolts loose and #3 cylinder oil return tube leaking.- Clean and gap spark plugs.... Removed spark plugs, cleaned, inspected, gapped and reinstalled. Function checked satisfactory.- Screw missing from RH muffler shield.... Replaced missing screw with new screw as needed.- Oil sump bolts need retorqued.... Retorqued all oil sump bolts as needed in accordance with Lycoming Direct Drive OH Manual. Leak checked satisfactory.- #3 Cylinder oil return tube leaking.... Tightened outboard band clamp on rubber oil return tube on #3 Cylinder oil return tube. Leak checked satisfactory.- #1 and #2 Cylinder hold down nuts need retorqued.... Retorqued #1 and #2 Cylinder hold down nuts as needed in accordance with Lycoming Direct Drive OH Manual. Leak checked satisfactory.- #1,2,4 and 5 Cylinder injector fuel stained.... Removed, cleaned and inspected all fuel injector nozzles. Found #5 Cylinder nozzle hood loose. Replace #5 Cylinder nozzle with new nozzle.- Oil Pressure Regulator gasket leaking.... Tightened Oil Pressure Regulator and re-safetied. Leak checked satisfactory.- Engine needs wash.... Performed engine wash.- Magnetos need timed to engine.... Retimed magnetos to engine as needed.			
The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service Pertinent details are on file at this facility under Work Order No. 0967.						
DATE: 5/4/2016			SIGNED: <i>Pat Pennington</i> AP3058066		Work Order: 0967	
			Pat Pennington, IA: 3058066		Printed by EBis 3 (datcomedia.com)	

DATE	TOTAL TIME IN SERVICE	HOURS	ENGINE MODEL: 10-540-AB1AS ENGINE S/N: L26542-48A REG. NO: N4195E WORK ORDER: 1014	 <b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007	DATE: 7/14/2016 A/C TSN: 1853.2 ENG TT: 1825 HOBBS: 2076.5	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__			<b>Engine Entries</b> C/W 50 hour Oil & Oil Filter Change.... Complied with 50 Hour Oil and Oil Filter Change. Serviced with 9qts Aeroshell 100 Plus Oil and Installed AA48110-2 Filter. Ground Run & Leak Checked Satisfactory.- C/W Oil Analysis.... Complied with Oil Analysis.- C/W AD 2000-02-14 Muffler Inspection.... Complied with AD 2000-02-14 Muffler Inspection. No discrepancies found. Next inspection due Tach 1875.6.			
The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service Pertinent details are on file at this facility under Work Order No. 1014						
DATE: 7/14/2016			SIGNED: <i>Pat Pennington</i> AP3058066		Work Order: 1014	
			Pat Pennington, A&P: 3058066		Printed by EBis 3 (datcomedia.com)	
2/15/17			OIL CHANGE NOT FILTER. 8QT AEROSHELL 100P			
			1884.6			

DATE	TOTAL IN SERVICE HOURS
19	

MAKE: Cessna  
 MODEL: 182S  
 S/N: 18280363  
 REG. NO: N4195E  
 WORK ORDER: 0916



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 1/13/2016  
 A/C TSN:  
 TACH: 1810

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

**Airframe Entries**

Troubleshoot Aircraft slow to start.... Removed Battery S/N 40268866 P/N RG24-11M. Top charged and reinstalled battery in Aircraft.- Install new Battery.... Removed old Battery P/N RG24-11M S/N 40268866. Installed new Battery S/N 40769093. Function check satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 0916.

DATE: 1/13/2016

SIGNED:

Pat Pennington, A&P: 3058066

Work Order: 0916

Printed by EBis 3 (datcomedia.com)

DATE	TOTAL TIME IN SERVICE HOURS
19	

ENGINE MODEL:  
 IO-540-AB1AS  
 ENGINE S/N: L26542-48A  
 REG. NO: N4195E  
 WORK ORDER: 1223



**Aero Tech Services**  
 4689 Eddie Rickenbacker Drive  
 Addison, TX 75001  
 Phone: 214-728-9007

DATE: 6/10/2017  
 A/C TSN: 1912.5  
 ENG TT: 1912.5  
 TACH:

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

**Engine Entries**

C/W 100 HR/ Annual Inspection of Engine.... Complied with 100 Hour/Annual Inspection of Engine. Compression Check #1 76/80 #2 71/80 #3 75/80 #4 78/80 #5 74/80 #6 76/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- C/W SB 388C Valve Guide Inspection.... SB 388C no longer applies to this Engine. - C/W AD 2000-02-14 Muffler Inspection.... Found N/A by S/N.- C/W AD 2015-19-07 Fuel Injection Line & Clamp Inspection.... Complied with AD 2015-19-07 Fuel Injection Line & Clamp Inspection.No Discrepancies Found.- LH Oil Return.Rubber Tubes leaking Oil.... Tightened LH Oil Return Clamps as needed. Leak Check Satisfactory.- All Injectors show Fuel staining.... Removed All Injectors. Cleaned All Fuel Injectors and Re-Installed All Injectors as needed.- #3 Cylinder Valve Cover Gasket leaking Oil.... Re-torqued Cylinder #3 Valve Cover to Specs as needed.- RH Magneto Adapter Gasket leaking.... Replaced RH Magneto Adapter Gasket with New Gasket as needed. Checked RH Magneto Timing to Engine at 23° BTDC as needed.- #1 Cylinder Base Nuts need Re-torqued.... Torqued #1 Cylinder Base Nuts to Specs as needed.- Lower Fwd Case Half Bolts need Re-torqued.... Re-torqued Bolts as needed.- RH Tailpipe Clamp needs to be Repositioned and Re-Seating.... Repositioned and Re-seated RH Tailpipe Clamp as needed.- C/W Oil & Filter Change.... Complied with 50 Hour Oil & Filter Change. Serviced with 9qts Aeroshell 100W Plus Oil and Installed AA48110-2 Filter. Ground Run & Leak Checked Satisfactory.- Broken Bolt on Tailpipe Clamp.... Replaced broken Bolt with New Bolt as needed.- LH Magneto needs Timed to 23° BTDC.... Adjusted to Specs as needed.- Oil Pressure Fitting at right front of Engine Case leaking Oil.... Removed Fitting and applied Teflon Tape and Re-Installed Fitting as needed. Leak Check Satisfactory.- Engine needs De-greased.... De-greased Engine as needed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1223.

DATE: 6/10/2017

SIGNED:

Pat Pennington, IA: 3058066

Work Order: 1223

Printed by EBis 3 (datcomedia.com)

10-29-17  
 OIL CHANGE 100 PLUS - NO FILTER TECH 1946.2

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERV	
	HOURS	11
19		

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1370



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 4/9/2018  
A/C TSN:  
ENG TT:  
TACH: 1962.4

HORIZONTAL SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

**Engine Entries**

Clean, Gap and Test Spark Plugs.... Removed LH and RH upper cowling. Removed Spark Plugs. Cleaned, gapped, tested Spark Plugs, with anti-seize. Torqued plugs to 35in. lbs. Reinstalled LH and RH upper Engine cowling. Ground Run Satisfactory.- #1 & #5 Cylinder Fuel Nozzles need cleaning due to slow EGT indications.... Removed all Fuel Injector Nozzles and cleaned, inspected, reinstalled and torqued to specs as needed. Leak Check Satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1370.

DATE: 4/9/2018

SIGNED:

*Pat Pennington* AP3058066

Work Order: 1370

Pat Pennington, A&P: 3058066

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ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1417

**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 5/31/2018  
A/C TSN:  
ENG TT:  
TACH: 1979

**Engine Entries**

Troubleshoot L/H Vacuum pump In-Op.... Troubleshoot and found L/H Vacuum pump drive shaft sheared. Removed faulty pump and installed overhauled pump P/N 216CW S/N 179858 as required. Operational check satisfactory.- C/W 50HR Oil & Filter Change.... Complied with 50 Hour Oil and Filter Change. Serviced with 9 qts Aeroshell 100 Plus Oil and Installed 1ea. New AA48110-2 Oil Filter as needed. Removed old crush gasket and installed 1ea. new crush gasket P/N AN900-16 as needed. Ground Run & Leak Checked Satisfactory.- C/W Oil Analysis.... Complied with Oil Analysis as requested:- R/H Exhaust Tailpipe clamp loose.... Tightened nut and bolt as needed on R/H Exhaust Tailpipe clamp as needed.- L/H Exhaust Tailpipe clamp loose.... Tightened nut and bolt as needed on L/H Exhaust tailpipe clamp as needed.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1417.

DATE: 5/31/2018

SIGNED:

*Pat Pennington* AP3058066

Work Order: 1417

Pat Pennington, A&P: 3058066

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1425



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 7/3/2018  
A/C TSN: 1982.5  
ENG TT: 1982.5  
TACH: 1987.7

**Engine Entries**

C/W 100 HR/Annual Inspection of Engine.... Complied with 100 Hour/Annual Inspection of Engine. Compression Check #1 76/80 #2 73/80 #3 75/80 #4 72/80 #5 74/80 #6 75/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- Fuel flow divider overboard drain hose deteriorated.... Removed faulty hose and installed new hose as needed.- #6 cylinder fuel injector identification tag separating from line.... Applied adhesive to the tag for security.- LH Magneto ignition harness chaffing on the vacuum pump housing.... Repositioned harness and secured with tywraps as needed.- C/W 500hr Magneto Inspection.... Removed Mags, disassembled, cleaned, inspected. Replaced both contact point sets. Re assembled and installed using new drive cushions, gaskets and timed to engine. Ground run & leak checked satisfactory.- C/W AD 2000-02-04 Muffler Inspection.... Complied with AD 2000-02-04 Muffler Inspection found satisfactory at this time.- Analog EGT gauge lead disconnected.... Re connected and secured with tywraps and fire sleeve.- C/W AD 15-19-07 Fuel injector lines and clamps for security.... Complied with AD 15-19-07 by visual inspection and found satisfactory at this time.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1425.

DATE: 7/3/2018

SIGNED:

*Pat Pennington* AP3058066IA

Work Order: 1425

1 of 2

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ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1448



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 8/3/2018  
A/C TSN: 2002.6  
ENG TT:  
TACH: 2002.6

**Engine Entries**

Clean #2 and #6 cylinder lower spark plugs.... Removed upper L/H Cowling. Removed #2 and #4 cylinder lower spark plugs. Cleaned and Reinstalled with Anti-Seize. Reinstalled Upper L/H Cowling. Function checked satisfactory.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1448.

DATE: 8/3/2018

SIGNED:

*Pat Pennington* AP3058066

Work Order: 1448

Pat Pennington, A&P: 3058066

Printed by EBis 3 (datcomedia.com)

HORIZONTAL SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
7/19	2038.	5	CHANGED OIL 5-15-19 8 QTS 100 PLUS, DID NOT CHANGE OIL FILTER	<i>[Signature]</i>

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1496



**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 12/18/2018  
A/C TSN: 2015.9  
ENG TT:  
TACH:

**Engine Entries**

C/W 50 HR Oil & Filter Change... Complied with 50 Hour Oil and Filter Change. Serviced with 9 qts Aeroshell 100 Plus Oil and Installed 1ea. New AA48110-2 Oil Filter as needed. Torqued Filter to 18 Ft Lbs using torque wrench ID # 16476 S/N 09950080221 Cal. Due 07/06/19. Ground Run & Leak Checked Satisfactory.- C/W Oil Analysis.... Performed Oil Analysis.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 1496

DATE: 12/18/2018

SIGNED:

Pat Pennington, A&P: 3058066


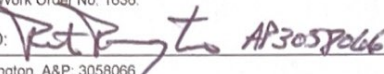
Work Order: 1496




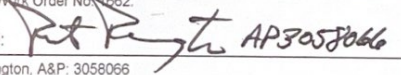
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**MAINTENANCE RECORD**

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19			<p>ENGINE MODEL: IO-540-AB1AS ENGINE S/N: L26542-48A REG. NO: N4195E WORK ORDER: 1563</p> <p><b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007</p> <p>DATE: 8/9/2019 A/C TSN: 2065.2 ENG TT: 2065.2 TACH: 2065.2</p> <p><b>Engine Entries</b></p> <p>C/W 100hr/Annual Engine Inspection... Complied with 100 Hour/Annual Inspection of Engine. Compression Check #1 75/80 #2 78/80 #3 72/80 #4 75/80 #5 75/80 #6 78/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer.- C/W 50hr Oil and Filter Change... Complied with 50hr Oil and Filter Change. Serviced with 8 qts Aeroshell W100 plus Oil &amp; AA48110-2 Oil Filter Ground Run &amp; Leak Checked Satisfactory.- C/W Oil Analysis... Complied with Oil Analysis.- C/W 500 Magneto Inspection... Complied with 500hr. Magneto Inspection on LH &amp; RH Magnetos. Installed new Condenser, Distributor Block &amp; Gear and new coil on LH Magneto. Installed new Condenser, Distributor Block &amp; Gear on RH Magneto. Adjusted points dwell on both. Installed both with new drive cushions &amp; Gaskets. Timed to Engine. Ground run &amp; function checked satisfactory.- C/W AD 76-07-12 Ignition Switch... Complied with AD 76-07-12 Bendix Ignition Switch. Found satisfactory at this time.- C/W AD 2000-02-04 Muffler Inspection... Complied with AD 2000-02-04 and found no discrepancies at this time.- C/W AD 15-19-07 Fuel Injector Lines and Clamps... Complied with AD 15-19-07 Fuel line &amp; Injector support clamps for security. No Anomalies found.- C/W AD 2013-11-11 Engine Oil Pressure Switch... Complied with AD 2013-11-11 and found Oil Pressure Switch P/N 83278 Installed. Found replacement time to be due @ A/C T.T. 4378.0 due to installation date 03/17/2010 and A/C T.T. 1378.0.- Valve Covers showing signs of corrosion... Removed Valve Covers for ceramic coating by outside vendor. Reinstalled valve covers after coating performed by Crosslink Powder Coating. Leak checked satisfactory.- Small oil leak @ front lower position of engine... Found serviceable at this time. Washed engine and will monitor.- Engine Air Filter Needs Cleaned... Cleaned Engine Induction Filter as needed.- Engine needs washed... Degreased Engine as needed.- LH heat exchanger seat hose has hole... Removed excess hose and Applied RTV to Seat Hose as needed.- Cylinders #1 #4 #5 #6 Injectors have fuel staining... Removed all cylinder fuel injectors and cleaned as needed. Reinstalled Fuel injectors with Anti Seize and torqued as needed. Leak checked satisfactory.- Clean, gap, test spark plugs... Cleaned, gapped and tested spark plugs as needed.</p> <p>The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service Pertinent details are on file at this facility under Work Order No. 1563</p> <p>DATE: 8/9/2019</p> <p>SIGNED:</p> <p>Pat Pennington, IA: 3058066</p> <p>Work Order: 1563</p> <p>Printed by EBis 3 (datcomedia.com)</p>	


### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
2020 <del>19</del> 1-9-20	2091	0	CHANGED OIL - 100 PLUS 8 QTS - NO FILTER CHG ADDED CAMGUARD	
<p>ENGINE MODEL: IO-540-AB1AS ENGINE S/N: L26542-48A REG. NO: N4195E WORK ORDER: 1636</p> <p style="text-align: center;"> <b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007</p> <p style="text-align: right;">DATE: 3/6/2020 A/C TSN: 2346 ENG TT: 2346 TACH: 2346</p> <p><b>Engine Entries</b></p> <p>Troubleshoot alternator In-op.... Verified field voltage at alternator and received sufficient voltage. Removed alternator P/N: 9910591-11RX S/N: A184232 and installed overhauled alternator P/N: ASG10001-17 S/N-U01237A. Performed engine and found alternator functioning satisfactory.- Troubleshoot analog EGT fluctuates.... Inspected and found loose connection at probe connector. Cleaned and remade connections on connector. Secured with a tie wrap as needed. Function checked satisfactory.</p> <p>The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1636.</p> <p>DATE: 3/6/2020      SIGNED:  AP3058066      Work Order: 1636 Pat Pennington, A&amp;P: 3058066      Printed by EBis 3 (datcomedia.com)</p>				

DATE	TOT IN	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOUR		
19		<p>MAKE: Cessna MODEL: 182S S/N: 18280363 REG. NO: N4195E WORK ORDER: 1649</p> <p style="text-align: center;"> <b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007</p> <p style="text-align: right;">DATE: 4/9/2020 A/C TSN: TACH: 2096.5</p> <p><b>Airframe Entries</b></p> <p>Install new static wick on outboard RH Elevator location.... Removed broken base and painted and installed new base with original wick.</p> <p>The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1649.</p> <p>DATE: 4/9/2020      SIGNED:  AP3058066      Work Order: 1649 Pat Pennington, A&amp;P: 3058066      Printed by EBis 3 (datcomedia.com)</p>	
		<p>ENGINE MODEL: IO-540-AB1AS ENGINE S/N: L26542-48A REG. NO: N4195E WORK ORDER: 1662</p> <p style="text-align: center;"> <b>Aero Tech Services</b> 4689 Eddie Rickenbacker Drive Addison, TX 75001 Phone: 214-728-9007</p> <p style="text-align: right;">DATE: 6/4/2020 A/C TSN: 2111.9 ENG TT: 2602.8 HOBBS: 2367.7</p> <p><b>Engine Entries</b></p> <p>C/W 50hr Oil &amp; Filter Change.... Complied with 50 Hour Oil and Filter Change. Serviced with 10qts Aeroshell 100 Plus Oil and Installed 1ea. New AA48110-2 Oil Filter as needed. Ground Run &amp; Leak Checked Satisfactory.- C/W Oil analysis.... Performed as requested.</p> <p>The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this facility under Work Order No. 1662.</p> <p>DATE: 6/4/2020      SIGNED:  AP3058066      Work Order: 1662 Pat Pennington, A&amp;P: 3058066      Printed by EBis 3 (datcomedia.com)</p>	

DATE	TOTAL TIME IN SERVICE	HOURS
19__		

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1689




**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 7/17/2020  
A/C TSN: 2134.2  
ENG TT: 2602.8  
TACH: 2134.2

**Engine Entries**

Clean & Gap Spark plugs.... Removed, cleaned, gapped, tested, reinstalled. Function checked satisfactory.- Install Fire sleeve over EGT connector.... Rerouted lead and installed fire sleeve as needed.- RH vacuum pump In-op.... Removed faulty pump and installed serviceable pump with same p/n. Function checked satisfactory.- Several engine wiring harness tywraps heat soaked and broken.... Removed faulty tywraps and installed new tywraps as needed.- Troubleshoot RH Magneto has no drop on mag. check.... Found LH magneto P lead has broken wire terminal. Removed faulty and installed new wire terminal. Function checked satisfactory.


The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 1689

DATE: 7/17/2020      SIGNED:  AP3058066      Work Order: 1689  
Pat Pennington, A&P: 3058066      Printed by EBis 3 (datcomedia.com)

THORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

DATE	TOTAL TIME IN SERVICE	HOURS
19__		1

ENGINE MODEL:  
IO-540-AB1AS  
ENGINE S/N: L26542-48A  
REG. NO: N4195E  
WORK ORDER: 1708



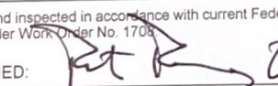
**Aero Tech Services**  
4689 Eddie Rickenbacker Drive  
Addison, TX 75001  
Phone: 214-728-9007

DATE: 9/3/2020  
A/C TSN: 2153.4  
ENG TT: 2153.4  
TACH: 2153.4

**Engine Entries**

Comply with 100hr/Annual Inspection of Engine.... Complied with 100 Hour/Annual Inspection of Engine IAW TCM Standard Practice MM M-O Chapter 6. Compression Check #1 78/80 #2 74/80 #3 75/80 #4 75/80 #5 73/80 #6 74/80. Found Satisfactory. Checked Magneto Timing and Cleaned Fuel Strainer. Cleaned, Gapped and Tested All Spark Plugs.- Comply with AD 2000-02-04 Muffler Inspection.... Complied with AD 2000-02-04 Muffler Inspection. No anomalies found.- Comply with AD 15-19-07 Fuel Injector Lines and Clamps for security.... Complied with AD 15-19-07 Fuel Injector Lines and Clamps for security inspection. Found satisfactory at this time.- Install Customer Supplied Engine Tanis Heater Kit.... Installed customer supplied Engine Tanis Heater Kit as needed. Function checked satisfactory.- Perform Magneto Timing Check.... Performed Magneto Timing Check. L/H at 24.6, R/H at 23.5 Timed Magnetos to 23 degrees BTDC as needed. Function checked satisfactory.- Propeller Governor Rod End has excessive play.... Removed worn Rod End and installed new Rod End. Function checked satisfactory.- Forward Lower Case Halves leaking oil.... Retorqued Forward Lower Case Halves Hardware as needed.- #1, #2, #4, #5 and #6 Cylinders Fuel Injectors have fuel staining.... Removed all Fuel Injectors and cleaned. Reinstalled Fuel Injectors with Anti Seize and torqued as required. Function checked satisfactory.- R/H AFT Baffling at #5 Cylinder missing Bolt.... Installed serviceable Bolt, Washer and Lock Washer as needed. Found satisfactory at this time.- Rubber Grommet at Firewall for RH CHT wires deteriorated.... Removed faulty Grommet and installed new Grommet as needed.- L/H Ram Air Seat Hose to L/H Exhaust Shroud chaffing on Ignition Leads.... Applied High-Temp RTV silicon and installed Standoff as needed.- Engine needs degreased.... Degreased Engine and Firewall as needed.- #1 Vacuum Pump Cooling Scat Hose has holes.... Trimmed Scat Hose as needed to remove damaged section as needed.- L/H Magneto P-Lead missing Electrical Boot.... Installed new P-Lead Electrical Boot as needed.- Mixture Control Rod End has excessive play.... Removed worn Rod End and installed new Rod End. Function checked satisfactory.- #2 Fuel Injector Line Adel Clamp hardware loose.... Replaced Fuel Line Clamp with new Clamp as needed.- Install new Tempest Fine Wire Spark Plugs.... Removed all Cylinder Spark Plugs. Installed new (12) each Tempest Fine Wire Spark Plugs. Applied Anti-Seize and torqued to 35 FL LBS. Function checked satisfactory.- Engine Idle RPM needs adjusted.... Adjusted Engine Idle RPM as needed to obtain 700 RPM.- Engine Air/Fuel mixture needs adjusted.... Adjusted Engine Idle Mixture to obtain 50 RPM rise.

The work described above was performed and inspected in accordance with current Federal Aviation Regulations and is approved for return to service  
Pertinent details are on file at this facility under Work Order No. 1708

DATE: 9/3/2020      SIGNED:  AP3058066IA      Work Order: 1708  
Pat Pennington, IA: 3058066      Printed by EBis 3 (datcomedia.com)

THORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER