

N705R

#1

***LYCOMING***

A Textron Company

ENGINE LOG

**SSP-1872-1**

**LYCOMING**

A Textron Company

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6181

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF   L  

LYCOMING

model : 0-540-L3C5D

s/n : L-27116-40E

**Installed on N705, s/n R18202037**

FROM \_\_\_\_\_

DETAILING TIME FROM \_\_\_\_\_

HOURS

TO \_\_\_\_\_

HOURS

**SSP-1872-1**

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**October 1994**

**LYCOMING**

A Textron Company

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

**FINAL ENGINE ACCEPTANCE**

Eng. Serial No.

*L-27116-40E*

Inspector

*59*

Date

*4/29/09*

Form 245 (5-02)

complied with at time of manufacture.

MODEL

**O-540-L3C5D**

DATE

*4/29/09*

SERIAL NO.

**L-27116-40E**

*Charles Hess*

(AUTHORIZED REPRESENTATIVE)

**LYCOMING**

A Textron Company

**LYCOMING ENGINES**

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

Form No. 777-B (Rev. 3/03)

**ENGINE CERTIFICATE**

described hereinafter has been manufactured  
LYCOMING specifications and Federal  
n-in is required. All applicable Federal  
d Lycoming Service Bulletins have been

# ENGINE DESCRIPTION

Mfgr.	LYCOMING	Place	Williamsport, PA 17701	Date	
Type		Model		Serial No.	
Rated H.P.		Max. H.P.		Weight (Dry)	
Rated R.P.M.		Max. R.P.M.		Oil Pressure	
Bore		Stroke		Displacement	Cu. In.
Compression Ratio		Supercharger Ratio			
Reduction Gear Ratio					
Propeller		Hub Design		Hub Serial No.	
Blade Design		Blade Serial No.		Blade Serial No.	
Max. Hub H.P.		Max. Blade H.P.			
Pitch		Diameter		Length	
Name					
Address					





# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

Aircraft N705

Type: R182

S/N: R18202037

Tach: 3148.1

WO#N705100518

May 18/2010

Oil and Oil filter change with new. Completed. Old Filter Inspected no contamination found. 7 quarts

Phillips 20W50 added. Oil filter P/N CH48103-1

Ground run completed no leaks found

The described maintenance has been performed in accordance with the applicable airworthiness requirements.



Edmonton Flying Club

Maintenance Dept.

AMO 269-91

Ph 780-454-4531

Chris Jackson ACA 09


		Page Total
		Brought Forward
		Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



A Greenwich AeroGroup<sup>®</sup> Company

02/11/11 N705  
LYCOMING O-540-L3C5D

CESSNA TR182  
S/N L-27116-40E

S/N R18202037  
ETT 187.0

A/C TT 3190.2

W.O. 105  
8871

Changed oil and filter. Took oil sample. Cleaned screens. Cleaned and gapped spark plugs. Removed magneto S/N G08LA022, adjusted contact E-Gap. Reinstalled magneto and timed to engine manufacturing specifications. Serviced with 20W50 Phillips XC Oil. Performed 50 hr/100 hr/Annual servicing and inspection. Run up and leak checked ok. Compression results as follows: 70/80 72/80 73/80 75/80 78/80 72/80.

**Parts:**

<u>Qty</u>	<u>P/N</u>	<u>Description</u>	<u>Qty</u>	<u>P/N</u>	<u>Description</u>
1	CH48103-1	Filter	1	AN900-16	Gasket
1	LW12681	Gasket	1	Blackstone	Oil Sample
8	20W50 XC	Phillips Oil			

I certify that this engine was inspected in accordance with an annual inspection under current FAA regulations and is airworthy with respect to the work performed and is approved for return to service. Pertinent details are on file under W.O. # 105.

Tim Monroe

Summit Aviation, Inc., SMTR208I Airframe Class 3, Radio Class 1, 2 and 3

Certificate Number MUST be Shown.

Total to Date

# ENGINE LOG

Serial No. \_\_\_\_\_

April 16, 2012

N705

TTE: 207.7

Use  
ber

Lycoming O-540-L3C5D

S/N: L-27116-40E

Tach: 3210.9

1. Performed an Annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. C/W AD2012-03-07 To prevent engine failure in flight by removing and reinstalling carburetor after repair by Marvel Schebler see 8130-3 dated March 09, 2012.
4. Compression test: #1-74/80, #2-72/80, #3-73/80, #4-73/80, #5-74/80, #6-74/80.
4. Changed oil and filter, filter inspection normal, installed new CH48103-1 filter, serviced sump with 7qts. Phillips XC 20W50 oil.
5. Removed and replaced #4 cylinder induction gasket with new P/N 71973.
6. Removed and replaced turbo oil scavenge line with new P/N 124F003-8CR0290.

I certify that this Engine has been inspected in accordance with an Annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11705 Airport Way Unit C  
Broomfield, CO 80021  
303-404-0277

A handwritten signature in black ink, appearing to read "Curt Lee Power", is written over a large, loopy scribble.

Curt Lee Power  
A&P 2882132 IA



# ENGINE LOG

Serial No. \_\_\_\_\_

10/18/2012

N705

Tach: 3307.1

use  
ber

Lycoming O-540-L3C5D

S/N: L-27116-40E

TTE: 303.9

1. Performed a 100-hour inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. Cylinder compressions: #1 78/80, #2 75/80, #3 77/80, #4 78/80, #5 77/80, #6 76/80.
4. Drained oil, inspected oil filter, serviced engine with 8 quarts Phillips X/C20W-50 oil & CH48103-1 oil filter. Run up and leak check okay.
5. Replaced all sparkplugs with new, (12)RHB37E.
6. Replaced #3 cylinder induction tube gasket with new, 71973.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Richard E. Marcellus  
A&P 2882133

Total to Date

Certificate Number MUST be Shown.





# ENGINE LOG

Serial No. \_\_\_\_\_

05/01/2013

N705

Tach: 3377.7

Lycoming O-540-L3C5D

S/N: L-27116-40E

TTE: 374.5

1. Performed an annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. Cylinder compressions: #1 78/80, #2 76/80, #3 77/80, #4 75/80, #5 78/80, #6 75/80.
4. Drained oil, inspected oil filter, serviced engine with 7 quarts Phillips X/C20W-50 oil & CH48103-1 oil filter.  
Run up and leak check okay.

I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Richard E. Marcellus  
A&P 2882133 IA

		Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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		Total to Date	



July 8, 2013

Lycoming O-540-L3C5D

N705

S/N: L-27116-40E

TTE: 463.0

Tach: 3466.2

1. Performed an Annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. C/W AD2005-12-06 To prevent engine failure by inspecting impulse coupling. No faults noted.
4. Compression test: #1-76/80, #2-74/80, #3-74/80, #4-74/80, #5-72/80, #6-74/80.
5. Changed oil and filter, filter inspection normal, installed new CH48103-1 filter, serviced sump with 7qts. Phillips XC 20W50 oil.
6. C/W 500hr. magneto inspection, installed new points and carbon brush, internally timed and installed on engine with new gasket and timed to engine.

I certify that this Engine has been inspected in accordance with an Annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Curt Lee Power  
A&P 2882132 IA

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	



01/30/2014

Lycoming O-540-L3C5D

N705

S/N: L-27116-40E

Tach: 3543.6

TTE: 540.4

1. Performed an annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. Cylinder compressions: #1 76/80, #2 73/80, #3 77/80, #4 75/80, #5 75/80, #6 74/80.
4. Drained oil, inspected oil filter, serviced engine with 7 quarts Phillips X/C 20W-50 oil & CH48103-1 oil filter. Run up and leak check okay.
5. Complied with AD84-26-02 Induction Filter, effective date: 01/29/1985, by replacing filter with new, P13-1367. Next due: 4043.6 Tach/TTAF.
6. Replaced all spark plugs with new, (12)RHB37E.

I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Richard E. Marcellus  
A&P 2882133 IA

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	



April 25, 2014

Lycoming O-540-L3C5D

N705

S/N: L-27116-40E

Tach: 3613.3

TTE: 610.1

1. Performed an annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. Cylinder compressions: #1 76/80, #2 76/80, #3 76/80, #4 76/80, #5 74/80, #6 74/80.
4. Drained oil, inspected oil filter, serviced engine with 7 quarts Phillips X/C 20W-50 oil & CH48103-1 oil filter. Run up and leak check okay.
5. Removed and replaced #4 cylinder induction tube gasket with new.
6. Tightened oil return lines on cylinders #2, 4, and 6.

I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Curt Lee Power  
A&P 2882132 IA

		Page Total	
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		Total to Date	

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

**Mitchinson Flying Service Ltd**      **A/C Model: Cessna TR182**      **S/N R182-02037**      **A/C Reg: N705**  
**AMO# 123-90**      **Aircraft TT Tach: 3705.9**      **Hobbs: 2606.5**      **Date: Sept 26, 2014**

**100Hr Inspection completed as per applicable checks sheets:**

Oil changed – Phillips 20W50. CH48103-1 oil filter replaced, cut open old filter no metal noted. Compression check completed - #1-76/80, #2-77/80, #3-76/80, #4 76/80, #5-74/80 & #6-76/80. Spark plugs cleaned & gapped. Timing checked & adjusted as needed. Turbo inspected, waste gate lubricated with mouse milk. Engine controls inspected and lubricated as needed. Battery checked. Lights checked. Replaced landing light P/N GE4591 with new one. Tires & brakes inspected. Aircraft jacked up, gear swing completed 5 times - no defects noted. Gear lubricated. Aircraft removed from jacks. Hydraulic fluid contamination check completed. B3-5-1 filter replaced. All airframe controls inspected for freedom of movement and lubricated as needed. Propeller inspected & filed as needed. Spinner & back plate inspected no cracks or damage noted. Following Airworthiness Directives were checked for compliance: **CF90-03R2 & AD2011-10-09 - no defects noted.**

**"The maintenance described has been performed in accordance with the applicable standards of airworthiness."**

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			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
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			Total to Date		



# ENGINE LOG

Serial No. \_\_\_\_\_

03/10/2015

N705

Tach: 3801.4

Lycoming O-540-L3C5D

S/N: L-27116-40E

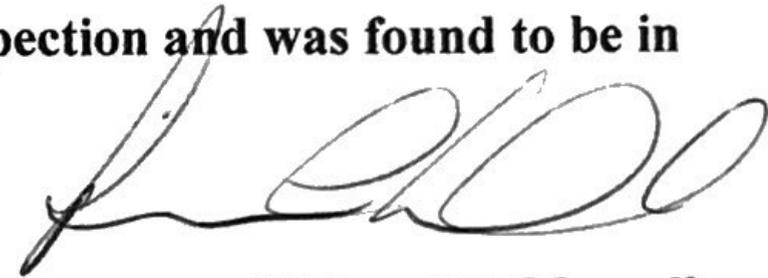
TTE: 798.2

1. Performed an annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.
2. See AD listings for AD compliance.
3. Cylinder compressions: #1 75/80, #2 77/80, #3 76/80, #4 77/80, #5 75/80, #6 76/80.
4. Drained oil, inspected oil filter, serviced engine with 7 quarts Phillips X/C 20W-50 oil & CH48103-1 oil filter. Run up and leak check okay. **Oil Sample Taken.**
5. **AD2015-02-07 Governor Shaft Set Screw Installation, effective date: 03/11/2015, N/A at this time. Next due: Shaft Set Screw Install.**
6. Replaced #3 engine cylinder induction tube gasket with new, 71973.

I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277



Richard E. Marcellus  
A&P 2882133 IA

Total to Date



# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
<p>I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>100 hour</u> inspection and was determined to be in airworthy condition.</p> <p>Tach/Hobbs <u>3876.0</u> Date <u>5-16-2015</u></p> <p>Signed <u>Jim Wildin Ad 83643661</u></p> <p>TTAF <u>3876.0</u></p> <p>TT eng. <u>872.8</u> eng TSO <u>872.8</u></p> <p>TT prop. <u>3876.0</u> prop. TSO <u>542.8</u></p> <p>ADs thru <u>Bi-weekly</u></p>					
			<p>① engine service oil &amp; filter ch 48105 element 8 qts Phillips XE 20W50 oil. Filter check good -</p> <p>② spark plugs clean &amp; gap - torque checked.</p> <p>③ compressor ① 75 ② 76 ③ 75 ④ 75 ⑤ 76 ⑥ 77.</p> <p>④ Intake - exhaust - air filter checked &amp; -</p> <p style="text-align: center;">END</p>		
Page Total			<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>		
Brought Forward					
Total to Date					

Tach: 3915.4  
TTE: 912.2

May 23, 2016

N705

S/N: L-27116-40E

Lycoming O-540-L3C5D

1. Performed an annual inspection in accordance with 14 CFR 43, Appendix "D" and the Cessna Maintenance Manual.

2. See AD listings for AD compliance.

3. Cylinder compressions: #1 77/80, #2 76/80, #3 76/80, #4 76/80, #5 75/80, #6 76/80.

4. Drained oil, inspected oil filter, serviced engine with 7 quarts Phillips X/C 20W-50 oil & CH48103-1 oil filter. Run up and leak check okay.

5. Removed and reinstalled prop governor after overhaul by Rocky Mountain Propellers, Inc. See 8130-3 May 17, 2016. Installed with new gasket and locking hardware.

I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.



Legacy Air, Inc  
11905 Corporate Way  
Broomfield, CO 80021  
303-404-0277

Curt Lee Power  
A&P 2882132 IA

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

Corvallis Aero Service

5695 SW Airport Place

Corvallis, OR. 97333

N705R

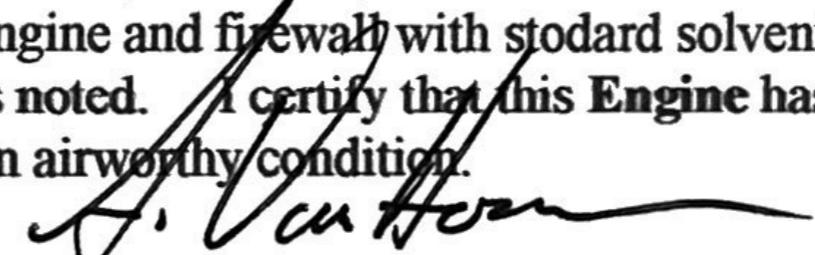
TACH: 3927.3

ETT: 924.1

DATE: 5-10-2017

Completed Inspection IAW 14 CFR 43 Appendix D requirements using Manufactures Maintenance Manual checklist guide. Compression results:-1) 76/80 2) 74/80 3) 73/80 4)74/80 5) 74/80 6) 72/80. Removed, cleaned gapped, inspected, tested sparkplugs and rotated and reinstalled with new gaskets. Inspected and timed Mag to specs. (Dual mag) Replaced LH Mag ground wire terminal end at mag. Unzip tied P-leads from bundle to gain some slack. Inspected all fluid hoses and air ducts, found satisfactory. No leaks noted at this time. Drained engine oil and removed, cut and inspected oil filter (no metal found at this time) installed new oil filter PN CH48103-1 and serviced engine with 7QT Phillips XC 20W50. Pressurize exhaust system for crack bubble test inspection, found a crack in exhaust riser number #4. Replaced riser #4 with new part PN(2254005-1) and replaced cyl 2,4,and 6 exhaust gaskets with new parts PN(77611) and replaced exhaust flange nuts with new parts PN(STD-2043). No other cracks found at this time. Cleaned fuel filter finger screen. Washed down engine and firewall with stodard solvent. Perform run-up and leak check, ops check satisfactory, no leaks noted. I certify that this Engine has been inspected IAW a 100 Hr Inspection and was determined to be in airworthy condition.

W/O: 17-7022



Andrew Van Hoosen AP 3669691 IA

License Number

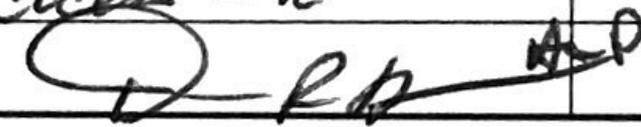
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Total to Date

All repair work must be done by a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
8-25-2017			Removed carburetor PIN 10-6001		
TACR	3436.6		S/N MN601209 + installed on N750CR		
			Installed Factory Remanufactured		
			Carb PIN 10-6001 S/N MSE48601		
			Transferred all linkage to new carb		
			Installed Rigged + Adjusted as necessary		
			IAWS Cessna TR182 Series service manual		
			D2069-F 1/2 IIA PG IIA-17 + Rigged IIAWS IIA-68		
			Run up Perform + Take Clear OK		
					
					524B181
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
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			Total to Date		



# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

**LAWRENCE AIR SERVICE**



90295 Air Cargo Way Ste. 4  
Eugene, OR 97402  
541-689-3331

<b>N705R</b>	
MAKE/MODEL:	Cessna TR182
SERIAL NUMBER:	
TACH/HOBBS:	3,940.6
AFTT:	
ENGINE MAKE/MODEL:	Lycoming O-540
ENGINE SERIAL NUMBER:	
ENGINE TTSN:	
ENGINE SMOH:	
PROP MAKE/MODEL:	
PROP SERIAL NUMBER:	
PROP SMOH:	TT:

**DESCRIPTION OF WORK:**

Removed #5 Cylinder spark plugs due to rough mag check. Found top plug shorted with lead. Cleaned, checked, and gapped plugs. Run-up OK. LH and RH mag drop 125RPM.

Mike Bonertz AP3170252IA ▼

Date: 3/20/2018

Endorsement of a  
rating and  
own.



