



Transport
Canada

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N834NQ

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TP 14182
(Revised 05/2005)

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Engine Logbook

3C1001185



05/2005

Canada

Volume #: 1

Opened on: MARCH 2010

ENGINE DETAILS

1. Manufacturer

LYCOMING

2. Type/Model/Series

LT10-540-J2BD

3. Serial Number

L-3014-68A /

[illegible]

(418) 877-4201

Following work has been performed under W/O# Customer P/O verbal.
100 hrs inspection as per CAR 625 app B & C and Piper inspection form.
Oil renewed both engines 15W50.

Oil filters replaced CH48103-1.

Both engines run-up c/out. satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness //

DATE: March 21/2011 Signed:

ACA001/AMO 27-95

(418) 877-4201

Following work has been performed under P/O # Customer P/O verbal
Oil renewed both engines 15W50.

Oil filters replaced CH48103. Oil filters inspected, no metal found

Both engine all spark plugs RHB37E removed and replaced with 24 new P/N RHB36S. Run-up c/out and satisfactory, no leaks observed.

Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: May 20/11

Signed _____

ACA002/ AMO 27-95

(418) 877-4201

Following work has been performed under P/O # Customer verbal
Oil renewed 15W50

Oil filter replaced CH48103.

Run-up c/out and found satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: Nov 9M

Signed

ACAD002/ AMO 27-95

(418) 877-4201

Following work has been performed under W/O# Customer P/O verbal.
100 hrs inspection as per CAR 625 app B & C and Piper inspection form

Oil filter replaced CH48103-1.

RH engine magneto timing out. Adjusted points on LH engine mags.

Both mags on both engines found with leads worn and cracked. Leads repaired with kits PN. 10-382698.

Both engines run-up c/out, satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: March 5/2012 Signed:

ACA00T

ACA001/AMO 27-95

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
May 15/12 (25.7)	257.3			
	15.7			
June 1-12	273.0			
	51.7 324.7			
Nov 15/12 (24.4)	349.1			

Québec Air Maintenance

(418) 877-4201

Aircraft registration: C-GOXI

Following work has been performed under P/O # Customer verbal
Oil renewed R/H engine 15W50 and oil filter replaced CH48103.
Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: May 15/2012

Signed:

[Signature]

ACA002/AMO 27-95


Québec Air Maintenance

(418) 877-4201

Aircraft registration: C-GOXI

Following work has been performed under W/O # Customer P/O verbal.
Oil renewed both engines 15W50.
Both engines run-up c/out, satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: June 01/2012

Signed:

[Signature]

ACA002/AMO 27-95


Québec Air Maintenance

(418) 877-4201

Aircraft registration: C-GOXI

Following work has been performed under W/O # Customer P/O verbal.
Oil renewed both engines 15W50.

Oil filters replaced CH48103-1 left engine filter inspected and no metal found.
Engines run-up c/out, satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: sept 01/2012

Signed:

[Signature]

ACA002/AMO 27-95


Québec Air Maintenance

(418) 877-4201

Aircraft registration: C-GOXI

Following work has been performed under P/O: Customer verbal
Replaced RH engine EGT probe with new PN: 481-358.

Run-up c/out & found satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness.

DATE: Nov 15/2012

Signed:

[Signature]

ACA001/AMO 27-95



[illegible]

DATE: May 28/2013 Signed: Hearts 044 ACA001/ AMO 27-95

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
June 9/13 5.9	469.6			Mag Failure Renewed Magneto PN: 10-682910-18 TIMING check Run-up check
July 29/13	520.3			
Nov 15/13 44.1	564.4			

(Dual) SN: G10AA036 : up there with OH'd unit
SN: 85100240T.
Found satisfactory.

Signature du TEA

Licence No



Date June 13

(418) 877-4201

Québec Air Maintenance

Aircraft registration: C-GOXI

Following work has been performed under W/O# Customer P/O verbal.

Oil renewed both engines 15W50.

Oil filters replaced CH48103-1.

Both engines run-up c/out, satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness

DATE: July: 29/2012 Signed: *Comptroller*

ACA002/AMO 27-95



Québec Air Maintenance

(418) 877-4201

www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal

100 hrs inspection as per CAR 625 app B & C and Piper inspection form.

Oil renewed both engines 15W50.

Oil filters replaced CH48103-1.

Both sides instrument filters replaced B3-5-1.

Both engines EGT probed reported U/S. Replaced EGT probe on LH and RH engines with new PN: 55841-002PN SN: 110340 on LH engine and SN: 110344 on RH engine. Functional test c/out, satisfactory.

Both engines pre-heater system functional test c/out, found satisfactory.

Found minor oil leak on RH engine, found oil return line loose, retightened clamp, found satisfactory.

Both engines run-up c/out, satisfactory.

Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.

The work described was performed in accordance with the applicable standards of Airworthiness

DATE: Nov 15/2013 Signed: *Comptroller*

ACA001/AMO 27-95



Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task	Signature	AME ACA/AMO SCA/AMO
Apr 25/14 (53.9)	618.3					
Aug 15/14 (92.6)	690.3					
Nov 7/14 (11.9)	702.2					



Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
Oil renewed both engines 15W50.
Oil filters replaced CH48103-1.
RH prop governor cable reported stiff; prop governor control cable adjusted and lubricated.
Oil leak reported on RH engine; cylinder scavenge hoses clamps retightened, oil filter adaptor sealed, breather hoses clamps replaced. Engine washed down.
Both engines run-up c/out, satisfactory, no leaks observed.
The work described was performed in accordance with the applicable standards of Airworthiness.
DATE: Apr 25/2014 Signed: *[Signature]* ACA001/AMO 27-95



Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
50 hrs inspection as per CAR 625 app B & C and Piper inspection form.
Both engines differential compression test c/out.
Oil renewed both engines 15W50.
Oil filters replaced CH48103-1.
RH engine EGT probed reported U/S. Replaced EGT probe with new PN: 55841-002PN (481-358) SN: 05948. Functional test c/out, satisfactory.
#1 cylinder on RH engine EGT probes (Electronic International) intermittent. Swapped probe from #1 cylinder to #3 cylinder. Tested satisfactory.
Both engines run-up c/out, satisfactory.
Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness.
DATE: Aug 15/2014 Signed: *[Signature]* ACA001/AMO 27-95



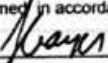
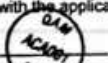
Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
100 hrs inspection as per CAR 625 app B & C and Piper inspection form.
Both engines differential compression test c/out.
Oil and filters not changed at owner request.
Both engines run-up c/out, satisfactory.
Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness.
DATE: Nov 7/2014 Signed: *[Signature]* ACA001/AMO 27-95

[illegible]

Aircraft registration : C-GOXI
Following work has been performed under P/O: Customer verbal
Both engines differential compression test c/out.
Oil renewed both engines 15W50.
Oil filters replaced CH48103-1.
Differential cylinder compression check on both engines.
RH engines found some cylinders with low compression and all cylinders have exhaust valves guides elongated holes.
#1 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN: 33714J05.
#2 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN: A271127.
#3 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN A300127.
#4 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN: 11914C08.
#5 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN: A099137.
#6 cylinder RH engine removed and replaced with new cylinder assy PN: 05K21108
SN: A300127.

Some push rods replaced with new PN: 15F19957-48 and -49 for good rocker gap clearance.
All cylinders reinstalled with new gasket sets.
At owner request, both breaker points replaced on RH magneto with new PN: 10-382811.
Internal timing c/out.
Both engines run-up c/out, satisfactory.
Airworthiness directives, service bulletins, service letters, time limit items and special inspection related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness
DATE: May 5/2012 Signed:   ACA001/AMO 27-95

AME
ACA/AMO
SCA/AMO

ACA001/AMO 27-95

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
Nov 5/15 12.4		752.1		
/				
/				
Dec 19/16 (33.5)		785.6		
/				
/				
Oct 13/17 (36.8)		822.4		
/				
/				



Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
100 hrs inspection as per CAR 625 app B & C and Piper inspection form.
Both engines differential compression test c/out.
Oil and filters not changed at owner request.
Both engines run-up c/out, satisfactory.
Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness

DATE: Nov 5/2015 Signed: *[Signature]*



ACA001/AMO 27-95



Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
100 hrs inspection as per CAR 625 app B & C and Piper inspection form.
Both engines differential compression test c/out.
Oil renewed both engines 15WQ50.
Oil filters replaced CH48103-1.
At owner request: replaced RH engine mag both breaker points PN: AB382622 and 10-382585 and capacitor PN: AB382681. Mag timing c/out.
Both engines run-up c/out, satisfactory.
Airworthiness directives, service bulletins, service letters, time limit items and special inspections related to STC not checked, they are the responsibility of the aircraft owner.
The work described was performed in accordance with the applicable standards of Airworthiness

DATE: Dec 19/2016 Signed: *[Signature]*



ACA001/AMO 27-95



Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : C-GOXI

Following work has been performed under P/O: Customer verbal
- Pneumatic lights both extinguish when one engine is running : Found RH vacuum (pressure) pump worn. Removed RH pump SN : 156353 and replaced with serviceable pump (removed from C-GOXI) PN : 442CW-6 SN : 128307. Regulator pressure adjusted, system tested and found satisfactory.

Both engines run-up c/out, satisfactory.

The work described was performed in accordance with the applicable standards of Airworthiness

DATE: Oct 13/2017 Signed: *[Signature]*



ACA001/AMO 27-95

AIRCRAFT Import To USA
12/12/17 N834NQ

N834NQ HOBBS: 4043.7 ENGTT: ~~826.6~~
RIGHT ENGINE
 Drain engine oil, remove oil filter and inspect. Install new oil filter P/N AA48103-2 and 10 Qts Aeroshell 15w50. Install new oil quick Drain. Clean air oil separator and reinstall. Patch right engine baffle Center top. Install new engine air filter P/N BA-7. Install new top Engine shock mounts P/N J-9613-29. Lube waste gates with Penetrating oil. Check V band clamp torques per Lycoming SB 12388 And safety wire V band clamps. Compression test: 1/72 2/76 3/74 4/76 5/75 6/75. CW AD73-23-13 Engine Cowl Seals per para (9). CW AD2015-19-07 External Fuel Injector Lines per para (e)(i) and SB 342G.

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this station under Service Order No. 62136 Dated: 12/11/17

James K. Merriam
 FAA Approved Repair Station No. B2ER144J
 Boshart Enterprises and Aircraft Services, Inc.
 Genesee County Airport Batavia, N.Y. 14020

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO 2017-24 CHECKED. OPERATIONAL CHECK SATISFACTORY. *RT*

SIGNATURE: *James K. Merriam*
 FOR REPAIR STATION B2ER144J
 TOTAL TIME: 826.6 TACH: 4043.7
 DATE OF INSPECTION: 12/12/17

1/24/18 N834NQ
 Tach: 4066.0

R&R RH pneumatic pump IAW Piper PA31-350 AMM, ops check good. A/C okay for service.

Zachary Spisak
 Zachary Spisak AP3970228

DATE 3/8/2018 FALCON EXECUTIVE AVIATION, INC. W.O.# SVC-8393
 REG N834NQ 4766 E. FALCON DR. HOBBS 4086.7
 LYC TIO-540-J2BD MESA, ARIZONA 85215
 SER # L-3014-68A FAA APPROVED REPAIR STATION NO. X0FR185J
RIGHT ENGINE LOG ENTRY

1. Removed cowl. Drained oil and replaced oil filter AA48103-2. Cut open oil filter and inspected for contaminants with none noted. Serviced with 12 qts. Phillips 20W50XC oil. Engine ground run and leak checked. Installed cowl.
2. The work identified above was performed in accordance with current Federal Aviation Regulations and found to be airworthy for return to service. AUTHORIZED SIGNATURE: *James K. Merriam* CRS X0FR185J
 Pertinent details of work accomplished on this aircraft are on file at this agency under work order SVC-8393.

END

AIRCRAFT RETURN TO SERVICE AND CURRENT MAINTENANCE STATUS
 Aircraft: N834NQ S/N 31-7752070



Date: 2/1/2019 Hobbs: 4,136.4 ACTT: 8,130.3
 Right ENG TSMOH: 919.3


R&R #1 cylinder due to low compression. Reinstalled after repair from Aircraft Engine Specialist. New chrome rings installed. Ground run checked good. 1-78/80 3-70/80 5-76/80 2-77/80 4-78/80 6-79/80. Replaced #3 CHT Probe. Serviced with 11 Quarts Aero Shell 100 and new 48103-2 filter. Cleaned and gapped spark plugs, timed mags, lubed all pulleys. R&R Vacuum Pump w/ new Rapco. See checklist. I certify that this engine has been inspected in accordance with the requirements of a 100 hour inspection in accordance with the requirements of FAR 43, Appendix D and current FAA regulations. Lycoming MM, and is determined to be in airworthy condition and is approved for return to service this date. All AD's are current through this date, see master AD list Pg 1-7.

Mike Spisak
 Mike Spisak
 AP3383810LA


It is important to understand that the existence of this document is not a statement of fact. It is a statement of opinion. Where the user/installer performs work in accordance with the instructions in Block 1, it is essential that the user/installer ensure that the work is performed in accordance with the instructions in Block 1. Statements in Blocks 13a and 13b do not constitute a statement of fact with the national regulations by the user/installer. (02-14) FAA Form 8130-3 (02-14)

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
<p align="center">SIGNATURE TECHNICAIR Aircraft Maintenance A BSA Aviation company</p> <p>3014 E. McCain Dr. Ste. 115B • Scottsdale, AZ 85260 • (480) 443-7267 N834NQ Date: 05/02/2019 ENGINE: Lycoming Model: IO-540-J2BD SIN: L-3014-68A AIRFRAME HOBBS: 4,164.7 RIGHT ENGINE LOG ENTRY</p> <p>1. Customer request R/H engine oil and filter change. /// Replaced R/H engine oil filter and installed new oil, 13 Qts of Phillips 66 20W50 IAW Navajo Chieftain Service Manual Cpt 2-50. Inspected oil filter, no defects noted, leak checks good. Oil filter: CH4103-1. 2. Customer states there may be a slight oil leak on the V/B side of the right engine. /// Cleaned R/H engine and ran it to locate leaks, cannot isolate location for small leak. Customer opts no further action at this time.</p> <p>I certify this article has been repaired and inspected in accordance with the current federal aviation regulations and was determined to be in airworthy condition with respect to the work performed and is approved for return to service. W.O. # 529-19-11295</p> <p>Signature TechnicAir:  FAA CRS: LN3R663L Dean Claus</p>				
<p>N834NQ PA-31-350 5/12/2019 Aircraft S/N: 31-7752070 TACH: 4165.0 Performed the following:</p> <ul style="list-style-type: none"> • Replace all 6 of the RH engine valve cover gaskets with new • Replaced all 6 of the RH engine EGT probes with new • Replaced RH engine inlet filter with new with new • Retorqued all 6 of the RH engine cylinder oil drain hose clamps • Post engine run is satisfactory and no leaks detected. <p>All work accomplished in reference with the aircraft/engine manual and applicable installation data. Alexander Tretnoff A&P 3739325 </p>				

Signature		AME ACA/AMO SCA/AMO
<p align="center">SWAZAVIATION ENGINE MAINTENANCE ENTRY</p> <p>Model: Piper PA31-350 Serial Number: 31-7752070 Registration Number: N834NQ Hobbs Time: 4167.1 Maintenance Performed:</p> <p>Removed and replaced RH engine #3 cylinder CHT threaded probe and ring style probe, R&R #6 CHT quarter turn probe, all IAW Piper PA31-350 AMM, ops check good. This aircraft is approved for return to service only for the work described above. ----- End -----</p> <p>Print Name: Zachary Spisak Signature:  Cert#: AP3970228 Date: 7/3/19</p>		

AIRCRAFT RETURN TO SERVICE AND CURRENT MAINTENANCE STATUS	
Aircraft: N834NQ S/N 31-7752070	
Date: 3/24/2019 Hobbs: 4,182.7 ACTT: 8,176.6	
Right ENG TSMOH: 965.6	
Drained oil and opened oil filter to inspect for metal, none found. Removed all fuel injectors, o rings, gasket and rubber injector hoses and replaced with new after cleaning injectors. Removed prop feathering oil line due to leak and replaced with a new hose fabricated by Aero Performance. Ground run checked good. 1-70/80 3-73/80 5-77/80 2-78/80 4-77/80 6-73/80. Serviced with 11 Quarts Aero Shell 100 and new 48103-1 filter. Cleaned and gapped spark plugs, timed mags, lubed all pulleys. See checklist. I certify that this engine has been inspected in accordance with the requirements of a 100 hour inspection in accordance with the requirements of FAR 43, Appendix D and current FAA regulations, Lycoming MM, and is determined to be in airworthy condition and is approved for return to service this date. All AD's are current through this date, see master AD list and Check List.	
Mike Spisak AP338101A	

Signature		AME ACA/AMO SCA/AMO
<p align="center">SWAZAVIATION ENGINE #2 MAINTENANCE ENTRY</p> <p>Model: PA31-350 Serial Number: 31-7752070 Registration Number: N834NQ Hobbs Time: 4195.9 EMT S/N: L-3N4-68A Maintenance Performed:</p> <p>A. MAINTENANCE ACTIONS PERFORMED: 1. Drained engine oil, removed oil filter, cut open and no abnormalities found, installed new oil filter and serviced with 11 qts of Phillips XC 20W-50. Leak check good. Work done IAW Piper PA31-350 AMM. This aircraft is approved for return to service only for the work described above. ----- End -----</p> <p>Print Name: Zachary Spisak Signature:  Cert#: AP3970228IA Date: 09/14/2020</p>		

SWAZAVIATION

ENGINE #2 MAINTENANCE ENTRY

Model: Lycoming LTIO-540-J2BD Serial Number: L-3014-68A Registration Number: N834NQ
 Total Time: 8232.6 Tach Time: 4238.7 SMOH: 1021.6

1. Performed a 100 hour inspection per 14CFR Part 43 Appendix D. Performed compression check with the following results: 1:76 2:78 3:76 4:76 5:78 6:76
 2. Drained engine oil, removed oil filter, cut open filter with no abnormalities found, installed new oil filter and serviced engine with 10qts of Phillips XC 20W-50.
- Cleaned engine, lubed controls, performed run up, leak and ops check good. All work done IAW Piper PA31-350 AMM and Lycoming LTIO-540-J2BD overhaul manual. I certify that this engine has been inspected IAW a 100hr inspection and was determined to be in airworthy condition. ----- End -----

Print Name: Zachary Spisak Signature:  Cert#: AP39702281A Date: 05/03/2021

SWAZAVIATION

ENGINE #2 MAINTENANCE ENTRY

Model: PA31-350 Serial Number: 31-7752070 Registration Number: N834NQ
 Hobbs Time: 4286.8 SMOH: 1064.7

1. Drained engine oil, removed oil filter, cut open and no abnormalities found, installed new oil filter and serviced with 11qts of Aeroshell 100W. Leak check good.

Work done IAW Piper PA31-350 AMM. This aircraft is approved for return to service only for the work described above.

Print Name: Zachary Spisak Signature:  Cert#: AP39702281A Date: 04/20/2022

SWAZAVIATION

ENGINE #2 MAINTENANCE ENTRY

Model: Lycoming LTIO-540-J2BD Serial Number: L-3014-68A Registration Number: N834NQ
 Total Time: 8305.6 Tach Time: 4311.7 SMOH: 1094.6

1. Performed a 100 hour inspection per 14CFR Part 43 Appendix D. Performed compression check with the following results: 1:78 2:74 3:72 4:77 5:71 6:75
- Cleaned engine, lubed controls, performed run up, leak and ops check good. All work done IAW Piper PA31-350 AMM and Lycoming LTIO-540-J2BD overhaul manual. I certify that this engine has been inspected IAW a 100hr inspection and was determined to be in airworthy condition. ----- End -----

Print Name: Zachary Spisak Signature:  Cert#: AP39702281A Date: 07/1/2022

**Vertical Performance Aviation
 Benson AZ (E95)**

N834NQ
 Date 12/9/22
 Hobbs 4327.2
 Right engine
 Drained oil filled with 10qts Phillips 20/50xc oil and 1 tempest
 48103 filter, End

Eric Seabase
 A&P30149061A



Cat
Af
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No
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Page 45

¹ Where engine time is requested, enter the engine time and/or engine cycles, as applicable.