



Transport
Canada

Transports
Canada

OXI LEFT

N834NQ

TP 14182
(Revised 05/2005)

Engine Logbook



TC1001185



05/2005

Canada

ENGINE TECHNICAL RECORD

INSTRUCTIONS FOR USE

Volume #: _____

Opened on: MAY 2012

ENGINE DETAILS

1. Manufacturer LYCOMING

2. Type/Model/Series T10-540-J2BD

3. Serial Number L-3307-61A

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
June 1-12	51.7	13.7 67.4		
		67.4		
Nov 15/12	24.4	91.8		
Feb 13/13	26.9	118.7		

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.

Left engine spiral wrap replaced by lacine wiring and spark plug lead.

Left engine tach chain cable replaced with new P/N 486-637.

Left engine line and valve cover placard installed, Gami injectors were transferred from engine

S/N L-9073-61A to newly O/H engine S/N L-3307-61A by Aero Recip W/O 1010036. STC SE

09445SC is transferred to newly O/H/D engine.

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 27/2012 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 LH engine #3 cylinder intake push rod housing seal.

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

Québec Air Maintenance

(418) 877-4201

Aircraft registration: C-GOXI

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

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

Oil renewed both engines 15V50.

Oil filters replaced CH48103-1.

Checked oil pressure on both engines. Adjusted oil pressure on LH engine to proper limits.

Minor oil leak observed on LH engine. Seals replaced PN: LW18661 on push rod housing #3 cylinder.

The following AD's checked:

AD 2012-19-01 crankshaft failure checked, found N/A on both engines as per Lycoming SB569A.

93-23-13 both engines baffle seals inspection c/out, satisfactory.

82-16-05R1 both turbocharger exhaust tailpipe coupling inspection c/out, satisfactory.

2011-26-04 both engines fuel injection lines and clamps inspection c/out, satisfactory.

2003-14-03 both engines fuel pump torque check inspection c/out, satisfactory.

Both engines run-up c/out, satisfactory.

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

Airworthiness


DATE: Feb 13/2013 Signed: *[Signature]* ACA001/AMO 27-95


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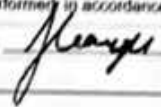
Section 1: Record of engine maintenance and elementary work


Date	Time since new	Time since overhaul	Total cycles	Details of task
Nov 16 / 13 AA61	-	203.0 307.1		
Apr 25 / 14 53.9	361			

Signature _____ A&M ACA/AMO SCA/IMO

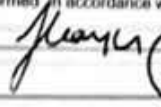


Québec Air Maintenance
(418) 877-4201
www.quebecairmaintenance.com

Aircraft registration : G-QOXI
Following work has been performed under P/O. Customer verbal
150 hrs inspection as per CAFR 625 app B & C and Piper inspection form.
Oil renewed both engines 15W50.
Oil filters replaced CH48103-1.
Both sides instrument filters replaced B3-S-1.
Both engines EGT probed reported U/S. Replaced EGT probe on LH and RH engines with new PN: 55841-G22PH SN: 110340 on LH engine and SN: 110344 on RH engine. Functional test c/out, satisfactory.
Replaced #1 and #2 EGT probes LH engine (Electronic International) with new PN: P-110. Tested satisfactory.
LH magneto PN: 10-682910-13 SN: 1063135 removed, 500 hrs insp (point ES10-382585 and point AB352522 replaced) done by Aero Atelier W/O: CNR-2587 Magneto reinstalled and timing c/out.
At owner request, replaced LH air pressure pump. Pump SN: C2012 removed and replaced with QAI unit AA441CC-7 SN: 03ZE01.
LH engine fuel pressure reported low, adjusted to proper limits.
Both engines pre-heater system functional test c/out, found satisfactory.
Repaired LH engine alternate air bracket.
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 16/2013 Signed: 
ACA001/AMO 27-95



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

Aircraft registration : G-QOXI
Following work has been performed under P/O. Customer verbal
Oil renewed both engines 15W50.
Oil filters replaced CH48103-1.
LH engine transition unit found cracked. Removed and replaced transition unit with repaired unit PN: LW-12437 SN: AF-670.
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: 
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 5/15 (37.5)		482.4		

[illegible]

AME
ACA/AMO
SCA/AMO



www.quebecairmaintenance.com

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.
Found LH engine breather tube cracked: new hose PN: MIL-H-6000 1" (1

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.

DATE: Dec 19/2016 Signed:

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
<p>AIRCRAFT Import to USA 12/12/17 N834NQ</p>				
N834NQ	HOBBS 4043.7	ENGINE TT 12,386.5		
<p>LEFT ENGINE Drain engine oil, remove oil filter and inspect. Install new oil filter P/N AA48103-2 and 10 Qts Aeroshell 15W50. Clean air oil separator and reinstall. Check V band clamp torques per Lycoming SB 1238B. Install new engine air filter P/N BA-7. CW AD93-23-13 Engine Cowl Seals per para (9). CW AD2015-19-07 External Fuel Injector Lines per para (e) (8) and SB342G. Compression test: 1/67 2/72 3/72 4/71 5/74 6/74.</p>				
<p>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. 82128. Date: 12/11/17</p>				
<p>I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>AIRMANUAL</u> TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO 2017-24 CHECKED. OPERATIONAL CHECK SATISFACTORY.</p>				
<p>SIGNATURE: <u>James H. Mervin</u> L-81 FOR REPAIR STATION B2ER144J TOTAL TIME: <u>12,568.0</u> TACH: <u>4043.7</u> DATE OF INSPECTION: <u>12/12/17</u></p>				

DATE	TIME	DETAILS OF TASK	SIGNATURE	AME ACA/AMO SCA/AMO
3/8/2018	W.O.# SVC-8393	FALCON EXECUTIVE AVIATION, INC.		
N834NQ	4766 E. FALCON DR.			
TIO-540-J2BD	MESA, ARIZONA 85215			
L-3307-61A	FAA APPROVED REPAIR STATION NO. X0FR185J			
<p>LEFT ENGINE LOG ENTRY</p>				
<p>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 2 each 487-704 studs during cowl installation.</p>				
<p>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: <u>James H. Mervin</u> CRS X0FR185J Pertinent details of work accomplished on this aircraft are on file at this agency under work order SVC-8393.</p>				
<p>END</p>				

0405/18
MOORE 100-540-22BD
S/N L-3307-61A
TACH READING TTE TSMOH

AIRCRAFT ENGINE SPECIALISTS, LLC
2336 SOUTH AIRPORT BOULEVARD, SUITE #5
CHANDLER, ARIZONA 85226
(480) 515-0390 CRS # ZF7R728Y

This engine has been repaired in accordance with the Lycoming Overhaul Manual 60294-7-14 and other FAA-approved procedures. Applicable FAA Airworthiness Directives and manufacturer service bulletins have been complied with, see AD sheet. All parts have been inspected. NDT parts per 71706-18-01. Lifters overhauled by AEA on 188361 and 188365. Camshaft repaired by Rick Roman's on 51872. Crankcase repaired by Dico on 120984. Sump repaired by Dico on 120988. Counterweights repaired by ACSS on 220328. Crankshaft overhauled by ACSS on 229164 per LW-12581 on 77724 complied with Service Bulletin 475C by inspection of both hole threads, new bolt, torque bolt to 660 inch lbs and head lock nut. Replaced cylinders and replaced pistons with new on C6446-18-04. Fuel Servo RSA-19-ED1, per 212456-8 was 48154, serviceable. Fuel pump BCP6801AM on F-5212, serviceable. Magneto 10-682110-13B on 209113, serviceable. Engine was run and was found to be in airworthy condition. Further details of this engine repair may be found at this facility under work order E5459-18-03.



James Mervin James Wheeler

Parts Used on WOV E5459-18-03			
1 73027	TUBE ASSY	1 SL72812	GASKET
1 10482610-13 QHC	MAGNETO QHC	1 SL73818	GASKET
1 13519649 US	GEAR	1 SL STD-1211	PLUG
1 56023399	BAFFLE OIL SUMP	1 STD-1339	PLUG
1 72257 US	TUBE ASSY US	1 TC45103	OIL FILTER
1 73000 US	GEAR US	2 73648	ROLLER
1 75675 US	EXT OIL FILLER 2 91 QHC US	2 76788	ROLLER CWT
1 AN6581103215	SCREW	2 66M19385	CLAMP
1 AN6 14A	BOLT	2 M529512-10	O-RING
1 C148103-1	OIL FILTER	2 SL13641	MAGNETO CUSHION
1 LW10292	GEAR ASSY	2 SL13885A M03	BEARING
1 LW10297 US	GEAR	2 STD-551	PLUG
1 LW10318 US	GEAR	3 72255 US	TUBE ASSY US
1 LW10332	LOCK PLATE	4 1102	PLUG
1 LW10541 US	GEAR ASSY	4 SL15819957-56	PUSHROD
1 LW12581 QHC	CRANKSHAFT QHC	4 STD-1901	SCREW
1 LW13340 QHC	CAMSHAFT QHC	6 73772	NOZZLE ASSY
1 MA84010H	STARTER PRESTO	6 17C19386	CAP VALVE STEM EXH ROT
1 M516625-1100	RING	6 18E73885 M03	BEARINGS
1 RH0065	SPARK PLUG	6 ASC10545	PISTON
1 SL12956	GASKET SET	6 LW12596	BOLT

END

DATE	TIME	DETAILS OF TASK	SIGNATURE	AME ACA/AMO SCA/AMO
5/17/2018	W.O.# SVC-8498	FALCON EXECUTIVE AVIATION, INC.		
N834NQ	4766 E. FALCON DR.			
TIO-540-J2BD	MESA, ARIZONA 85215			
L-3307-61A	FAA APPROVED REPAIR STATION NO. X0FR185J			
<p>LEFT ENGINE LOG ENTRY</p>				
<p>1. Removed Left engine Lycoming TIO-540-J2BD, S/N L-3307-61A and reinstalled same after repair by Aircraft Engine Specialists, CRS ZF7R728Y, WO E5459-18-03. Torqued engine mount nuts to 40 FT LBS law Piper maintenance manual. Serviced engine with 12 qts Aeroshell 100 Mineral Oil. Rigged engine control cables and performed engine runs according to break in sheet provided by AES.</p>				
<p>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: <u>James H. Mervin</u> CRS X0FR185J Pertinent details of work accomplished on this aircraft are on file at this agency under work order SVC-8498.</p>				
<p>END</p>				

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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 Left ENG TSMOH: 660.7 ENGTT: 12,479.2				
R&R Fuel Servo. Reinstalled & rigged after repair from Aircraft Engine Specialist. Ground run checked good. 1- 79/80 3-76/80 5-79/80 2-79/80 4-78/80 6-77/80 Replaced #3 & #4 CHT Probe. Serviced with 11 Quarts Aero Shell 100 and new 48103-2 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 Pg 1-7				
Mike Spisak AP33838101A				
SIGNATURE  Aircraft Maintenance A BBA Aviation company				
8014 E. McCain Dr. Ste. 133B • Scottsdale, AZ 85260 • (480) 443-7267 N834NQ Date: 05/02/2019 ENGINE: Lycoming Model: IO-540-J2BD S/N: L-33307-01A AIRFRAME HOBBS: 4,164.7 LEFT ENGINE LOG ENTRY				
1. Customer request LH engine oil and filter change. /// Replaced LH 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.				
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. # 829-19-11295				
Signature TechnicAir  Dean Claus FAA CRS: LN3R663L				

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

Date: 3/24/2020 Hobbs: 4,182.7 ACTT: 8,176.6
Left ENG TSMOH: 707.0 ENGTT: 12,525.5

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. R&R Engine driven fuel pump with overhauled unit, see tag. Compression: 1- 78/80 3-70/80 5-77/80 2-74/80 4-68/80 6-68/80 Serviced with 11 Quarts Aero Shell 100 and new 48103-1 filter. Cleaned and gapped spark plugs, timed mags, lubed rod ends, cables and 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
AP33838101A

ure	AME ACA/AMO SCA/AMO

SWAZAVIATION ENGINE #1 MAINTENANCE ENTRY

Model: PA31-350 Serial Number: 31-7752070 Registration Number: N834NQ
Hobbs Time: 4195.9 Maintenance Performed:

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 -----

Print Name: Zachary Spisak Signature:  Cert#: AP3970228IA Date: 09/14/2020

SWAZAVIATION #1 ENGINE MAINTENANCE ENTRY

Model: PA31-350 Serial Number: 31-7752070 Registration Number: N834NQ
Hobbs Time: 4196.6 Maintenance Performed:

Removed #1 Engine hydraulic pump, sent out for overhaul, installed overhauled hydraulic pump, primed with 5606 hydraulic fluid, ops and leak check good. Removed broken magneto pressurization adapter, installed serviceable magneto pressurization adapter. All work done IAW Piper PA31-350 AMM.
This aircraft is approved for return to service only for the work described above. ----- End -----

Print Name: Zachary Spisak Signature:  Cert#: AP3970228IA Date: 11/07/2020

SWAZAVIATION ENGINE #1 MAINTENANCE ENTRY

Model: Lycoming TIO-540-J2BD Serial Number: L-3307-61A Registration Number: N834NQ
Total Time: 12,581.5 Tach Time: 4238.7 SMOH: 763.0

1. Performed a 100 hour inspection per 14CFR Part 43 Appendix D. Performed compression check with the following results: 1:78 2:78 3:78 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.
3. Installed new spark plug P/N: RHB36S. Ops check good.
Cleaned engine, lubed controls, performed run up, leak and ops check good. All work done IAW Piper PA31-350 AMM and Lycoming TIO-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#: AP3970228IA Date: 05/03/2021

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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SWAZAVIATION

ENGINE #1 MAINTENANCE ENTRY

Model: PA31-350

Serial Number: 31-7752070

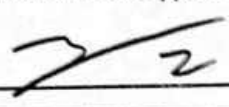
Registration Number: N834NQ

Hobbs Time: 4286.8

SMOH: 8111

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 #1 MAINTENANCE ENTRY

Model: Lycoming TIO-540-J2BD

Serial Number: L-3307-61A

Registration Number: N834NQ

AFTT: 8305.6

Tach Time: 4311.7

SMOH: 836.0

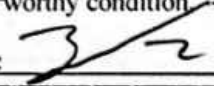
1. Performed a 100 hour inspection per 14CFR Part 43 Appendix D. Performed compression check with the following results: 1:77 2:78 3:74 4:75 5:78 6:74

2. R&R all rocker cover gaskets with new silicon

3. R&R #2 intake gasket with new

4. R&R air oil separator gasket with new and R&R drain hose with new

Cleaned engine, lubed controls, performed run up, leak and ops check good. All work done IAW Piper PA31-350 AMM and Lycoming TIO-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

Left engine

Drained oil filled with 10qts Phillips 20/50xc oil and 1 tempest 48103 filter, secured hose on inner cooler, replaced missing valve cover screw. End

Eric Seabase

A&P3014906IA 