

Left engine install N101DF B-2015

T180 1600 hrs

ENGINE LOG BOOK



NOV 2013

Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at:
1-888-826-5465 Toll free in the United States or
1-251-436-8299 International

Engine Returns

Return engines for core credit with this log book to:

Continental Motors, Inc.
2039 Broad Street
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:

Continental Motors, Inc.
Factory Service Center
8600 County Road 32
Fairhope, Alabama 36532 USA

**USE ONLY FUEL SPECIFIED IN OPERATOR'S
MANUAL OR TYPE CERTIFICATE DATA SHEET
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 08/04/2015

Test Date: 08/03/2015

This engine model GTSI0520H11B, serial number 1012436 was rebuilt by Continental Motors Inc, in accordance with approved design data and the applicable requirements of 14 CFR, Part 21 and 43 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.

Thomas Howard
CONTINENTAL MOTORS, INC.

1600 TBO

N101DF		CESSNA 421B	S/N 0315	
DATE: 2/1/2016		Hobbs Time: 227.0	AFTT: 6,779.8	16-3016
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 0.0		1600
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 771.3		829
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 517.7		1882
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 517.7		1882
L Gov DCF529D9-A/76	S/N: 801454	TSO: 0.0		1800
R gov DCF529D9-A/76	S/N: 810067	TSO: 0.0		1800

Complied with reoccurring AD 2000-01-16 on this engine by repacing with all new engine exhaust parts and visually inspecting the bulkhead and beam detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G by installing a overhauled engine assembly with a new starter gear assembly. Serviced engine oil and installed new oil filter. Left engine S/N 234846-R was removed and overhauled engine S/N 1012436 including overhauled turbo and turbo components was installed. Installed all new left engine fuel and oil hoses fire wall forward. Installed all new left engine mounts. Installed overhauled prop governors on both engines, left engine S/N 810067 right engine S/N 801454. Complied with engine runs and adjustments as needed. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43 appendix D. This aircraft engine has been determined to be

Signature: *Alan Lance* Alan Lance IA 337543694

N101DF		CESSNA 421B	S/N 0315	
DATE: 7/19/2016		Hobbs Time: 277.6	AFTT: 6.830.4	
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 50.6		1549
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 821.9		778
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 568.3		1832
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 568.3		1832
L Gov DCF529D9-A/T6	S/N: 781908	TSO: 41.4		1759
R gov DCF529D9-A/T6	S/N: 810067	TSO: 50.6		1749

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines starter drives. Changed both engines oil and filters.

Signature: *Alan Lance* Alan Lance IA 337543694

N101DF		CESSNA 421B	S/N 0315	
DATE: 12/15/2016		Hobbs Time: 318.3	AFTT: 6,871.1	16-3239
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 0.0		1600
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 862.6		737
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 609.0		1791
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 609.0		1791
L Gov DCF529D9-A/76	S/N: 801454	TSO: 82.1		1718
R gov DCF529D9-A/76	S/N: 810067	TSO: 91.3		1709

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters. Replaced all four forward engine mounts with new P/N J-9613-54. Installed new forward engine mount bolts and shims as required. Forward mounts were shimmed to achieve maintenance service manual minimum clearances, all four forward engine mounts were shimmed and have bolts lengths to match. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43

Signature: *Alan Lance* Alan Lance IA 337543694

N239SE	CESSNA 421B	S/N 0315	
DATE: 7/21/2017	Hobbs 369.3	AFTT: 6,942.6	17-3362
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 162.8	1437
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 934.1	666
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 680.5	1720
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 680.5	1720
L Gov DCFS29D9-A/76	S/N: 801454	TSO: 153.6	1646
R gov DCFS29D9-A/76	S/N: 810067	TSO: 162.8	1637

Registration Number changed from N101DF to N239SE. Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters.

Signature:  Alan Lance IA 337543694

N239SE	CESSNA 421B	S/N 0315	
DATE: 12/15/2017	Hobbs 418.6	AFTT: 6,991.9	17-3526
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 212.1	1388
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 983.4	617
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 729.8	1670
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 729.8	1670
L Gov DCFS29D9-A/76	S/N: 801454	TSO: 202.9	1597
R gov DCFS29D9-A/76	S/N: 810067	TSO: 212.1	1588

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43 appendix D. This aircraft engine has been determined to be in airworthy condition.

Signature:  Alan Lance IA 337543694

N239SE	CESSNA 421B	S/N 0315	
DATE: 4/25/2018	Hobbs 467.7	AFTT: 7,041.0	
L ENG: GTSIO-520-H	S/N: 1012436	TSO: 261.2	18-3648
R ENG: GTSIO-520-H	S/N: 234805-R	TSO: 1032.5	568
L Prop: PHC-C3YD-2UF	S/N: MJ55B	TSO: 778.9	1621
R Prop: PHC-C3YD-2UF	S/N: MJ53B	TSO: 778.9	1621
L Gov DCFS29D9-A/76	S/N: 801454	g 252.0	1548
R gov DCFS29D9-A/76	S/N: 810067	TSO: 261.2	1539

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G inspection on both engines. Changed both engines oil and filters.

Signature:  Alan Lance IA 337543694

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					

N239SE
6/11/2018
517.2 Hobbs

Changed oil, Aeroshell 15w/50, and filter, AA48111. Ground ran satisfactory.

D.A.H. 3255913 A&P

L Engine Log Entry
8/9/2018

Sonrise Aviation
524.3 Hobbs

N239SE

Performed an annual inspection using a FAR 43 app. D conforming checklist. Cyl. comp; 1: 64/72, 2: 72/80, 3: 64/80, 4: 66/80, 5: 66/80, 6: 70/80. Cleaned and gapped sparkplugs. Repaired baffle fwd of #6 cyl. Set fuel pressures per SID97-3G. Ground ran satisfactory. Searched for new ADs and researched old ADs. C/W 2007-05-15 by backlash test, checked ok, due again at 624.3 Hobbs.

I certify this engine has been inspected IAW an annual inspection and has been found to be in airworthy condition.

D.A.H. A&P 3255913 IA

Left Engine Log Entry

Sonrise Aviation

N239SE

10/1/2018 Hobbs meter reading 570.0. Oil and filter changed using Aeroshell 15w50. Run up and leak check good. Complied with AD 2001-01-16 by inspection of exhaust system. Torqued v band clamp. *Wally A. Boman ATP 312846223*

Left Engine Log Entry

Sonrise Aviation

N239SE

11/14/18 617.3 Hobbs
Changed oil, Aeroshell 15w/50, and filter, AA48111. C/W AD 2007-05-15 by backlash inspection, found satisfactory. Adjusted fuel pressures per M-0. Ground ran satisfactory.

D.A.H. 3255913 A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
L Engine Log Entry 2/15/2019			Sonrise Aviation 643.7 Hobbs		N239SE 416.7 SMOH
<p>Performed an annual inspection using a FAR 43 app. D conforming checklist. Cyl. comp; 1: 78/80, 2: 70/80, 3: 66/80, 4: 64/80, 5: 74/80, 6: 62/80. Cleaned and gapped sparkplugs. Repaired baffle fwd of #5 cyl. Repaired bracket between alt and exh by welding. Replaced exh bellow clamps, WWD 74. Replaced outboard bank exhaust risers, K5155156-204. Changed oil, Aeroshell 15w/50, and filter, AA48111. C/W 2007-05-15 by backlash test, checked ok, due again at 743.7 hobbs and adapter removal, found satisfactory, due again 1043.7 hobbs. Ground ran satisfactory.</p> <p>I certify this engine has been inspected IAW an annual inspection and has been found to be in airworthy condition.</p> <p style="text-align: right;"><i>DAM</i> A&P 3255913 IA</p>					

Left Engine Log Entry **Sonrise Aviation** **N239SE**
 4-1-2019 Hobbs meter reading 665.3. Oil and filter changed using Aeroshell 15w50. Run up and leak check good. *Wally A Brown ATP 312846223*

Left Engine Log Entry **Sonrise Aviation** **N239SE**
 7-3-2019 Hobbs meter reading 710.9. Oil and filter changed using Aeroshell 15w50.
2 of 2 ATP 4056099

LOG BOOK ENTRY				
N	239SE	TIME	HobbsTime:736.6	DATE
	Cont GTSIO-520H		ETSMO: 509.6	01-02-2020
				S/N: 1012436
<p>Left engine: Changed oil and oil filter with a Blackstone oil sample taken. Cut open and inspected filter. No metal found at this time. Serviced with a new filter CH48111-1 and 12QT of Aeroshell 100 mineral oil. Removed #2 and #4 cylinders due to low compression. Sent both cylinders to G&N Aircraft for overhaul. See yellow tags for details. Reinstalled both cylinders, ran engine and took cylinder compression on both cylinders. Compression check: #2; 76/80, #4; 77/80. Removed worn EGT probe and installed new EGT probe P/N: 86255. Performed engine run up and leak check, which checked good on this date. No Leaks detected.</p> <p style="text-align: center;">*** Page 1 of 1 ***</p> <p>Aircraft and/or components above were repaired and inspected in accordance with current federal aviation regulations, and were found airworthy for return to service.</p> <p>Signature: <i>[Signature]</i> Work Order: <u>2445</u></p> <p>Premier Avionics, LLC • 4424 Altitude Drive • Fort Wayne, IN 46809 • Tel: 260-747-4810 • CRS: 7PMR634B</p>				

ITEM: 16
 ORDER: 3680489 SN/LOT: N/A
 PN: 655705
 QTY: 12
 U/M: EA
 DFSC: GASKET

1. Approving National Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number 3680489	
4. Organization Name and Address Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218				5. Work Order/Contract Invoice Number 1240407		
6. Item 16	7. Description GASKET	8. Part Number 655705	9. Eligibility N/A	10. Quantity 12	11. Serial Batch Number N/A	12. Status Work New
13. Remarks AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# 13374						
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			15. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: <i>Keith Thompson</i>		16. Approval/Authorization No.: ODA-100129-CE		20. Authorized Signature:		21. Approval Certificate No.:
17. Name (Typed or Printed): KEITH THOMPSON		18. Date (m/d/y): NOV/30/2012		22. Name (Typed or Printed):		23. Date (m/d/y):
<p align="center">User/Installer Responsibilities</p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						
FAA Form 8130-3 (6-01)			* Installer must cross-check eligibility with applicable technical data.		NSN: 0052-00-012-9005	



REPAIR ONLY

Only the labor operations requested by the customer have been accomplished on this part. The customer must complete the inspection and repair of this part before using. G & N Aircraft, Inc., assumes no liability of any nature of the performance, use or operation of this part due to customer not requesting complete inspection and overhaul. Details of repair on work order no.

73994
 dated 12-19-2019 are on file at this agency

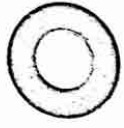
Randal S. Stewart
 Authorized Signature

G & N Aircraft
 1701 East Main St., Griffith, IN 46319
 F.A.A. Approved Repair Station No. MW2R020L

LT
Eng

MAINTENANCE RELEASE

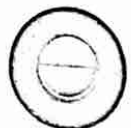
Type of Unit CYL Make CONTINENTAL
 Model GTS10-520-H
 SIN AC15GA102



LT
Eng

MAINTENANCE RELEASE

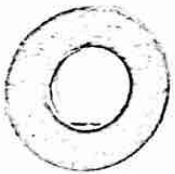
Type of Unit CYL Make CONTINENTAL
 Model GTS10-520-H
 SIN AC15GA086



2ea P/N 654840 pistons

2ea P/N 630046 piston pins

Visually + dimensionally checked.



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →			522	.2	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins



2634 Airport Drive Ste. # 106 North Las Vegas, NV. 89032 Phone: 702.636.6555 May 18, 2020
 Reg: N238SE S/N: 421B0315 Flight Hobbs: 0749.2 AFTT: 7322.5 WO: VGT-4789
 Left Engine: GTSIO-520- H1B SN: 1012436 TSMOH: 0522.2

Complied with a 100hr Inspection In Accordance with Cessna 421B A/M/M, Expanded Inspection - Temporary Revision No. 13 and FAR 43, D. Right Engine is current for all effective Airworthiness Directives through Bi-Weekly 2020-10.

- 1.) Current Engine Compression For The Right Engine, #1 76/80, #3 76/80, #5 76/80, #2 74/80, #4 70/80, #6 73/80, Compressions Are With In Limits.
- 2.) Removed And Replaced Engine Spark Plugs, Installed 12 New Champion RHB32E Spark Plugs, Satisfactory Upon Completion.
- 3.) Removed And Replaced Engine Air Filter, Installed New Engine Air Filter Donaldson P/N 08-06056 Satisfactory upon Completion.
- 4.) Drained Oil, Sampled Oil For Testing, Removed Filter, Cut Open Filter And Inspected, Found No Anomalies, Installed New Filter (P/N CH48111-1) Added 12 Qts. Of AeroShell 100W Plus , IAW Cessna C421B M.M. And Continental / Ram GTSIO-520 SER M.M. Performed Engine Runs And Leak Check Satisfactory At Completion.
- 5.) Complied With A.D. 07-05-15 And Continental Mandatory Service Bulletin MSB94-4H, Performed Inspection Detailed In Part 2 of MSB94-4H, The Following Results Were Found During Backlash Inspection (0°=.03") (90°=.02") (180°=.03") (270°=.02") Next Backlash Inspection Due At Hobbs Meter 849.2 And 1049.2, Results Are Within Limits For Continued Airworthiness.
- 6.) Preformed Inspection Of Exhaust As Prescribed By AD2000-01-16 Found No Discrepancies. Ground Check Good.
- 7.) Removed And Replaced Magneto Harness On Left Engine, Removed P/N M1950Y And Reinstalled P/N M1950Y, In Accordance With Cessna 421C M/M Section 7-22. Performed Ground Engine Run And Magneto Check, Satisfactory Upon Completion.
- 8.) Removed And Replaced Left Engine Tachometer Generator, Removed (P/N MS25038-2, S/N 202865), Replaced With (P/N EM8000 S/N 1968), IAW Cessna 421C M.M. Chapter 7-80. Operational Check Satisfactory.

I certify that the maintenance described above was accomplished in accordance with the Manufacturer's Maintenance Program, requirements of 14 CFR 43, and with respect to the work performed is airworthy and approved for return to service.

Val Sutherland 3641617 A&P *Val Sutherland 3641617 A&P*

ORLANDO AIRCRAFT SERVICES 601 HUMPHRIES AVE. ORLANDO EXECUTIVE AIRPORT ORLANDO, FL
 LOG ID# 11757 28-July-2021 WO# 120479-0 AC TT 7355.5 HOBBS 772.2
 N239SE S/N 421B0315 CESSNA 421B Pg 1 / 1

L/H ENGINE: GTSIO-520-H1B S/N: 1012436 ETT: 545.2

ANNUAL INSPECTION/LUBRICATION PERFORMED ON ENGINE IAW SECTION 2-1 OF CESSNA 421B SERVICE MANUAL. COMPRESSIONS: 1) 70 2) 70 3) 60 4) 66 5) 68 6) 70/80psi. OIL DRAINED, FILTER REMOVED AND CUT OPEN. NO VISUAL CONTAMINATES NOTED. ENGINE SERVICED WITH 12QTS AEROSHELL w100 PLUS AND NEW CH48111-1 OIL FILTER. SPARK PLUGS CLEANED, GAPPED AND TESTED. FUEL SCREENS CHECKED, CLEANED AND SAFETIED. COMPLIED WITH AD 2020-16-11 PART g(2) INSPECTION. AD'S RESEARCHED THROUGH CURRENT ATP PUBLICATIONS. ENGINE RUN-UP AND LEAK TESTS GOOD.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I.A.W. AN ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

Bradley E. Daniels 28 July 21
 AP 3479939 IA BRADLEY E. DANIELS Date

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model GTS10520H1B

Engine Serial Number 1012436

Testing Completed

Standard Acceptance Test:

Date of Completion AUG 03 2015 Test Operator (29769)



Continental Motors, Inc.



Continental Motors, Inc.
www.continentalmotors.aero