

L

RAM

AIRCRAFT CORPORATION

ENGINE MAINTENANCE RECORDS

Aircraft Registration

N 79TD

Engine Position

#1 (L/H)

Engine Serial No.

1-231517-R



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N79TD

Engine Manufacturer TCM

Model GTSD-520-H

Serial No. L-231517-R

Date installed on aircraft 4-21-98

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

☐ Right ☒ Left

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page 6885.0



Waco Regional Airport

TCM GTSIO-520-H S/N L-231517-R

Engine Previous Total:	2142.6
Hour Meter:	79.6
Since Remanufacture:	00.0
Propeller Total:	00.0
Date:	4/21/98

Above referenced engine remanufactured to new parts limits to conform w/TCM SM X-30045A. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Criteria - RAM Repair Station Report No. 1818, Rev. B dated 11/25/96. Installed above referenced engine in left position of Cessna 421B-0325. Installed new camshaft p/n 653056, s/n QQ017-1. Installed heavy style case p/n 642133 with new channel chrome cylinders. Crankcase modified to RAM p/n 1509-2 per STC SE8338SW. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed Floscan transducer per STC SE5726SW. Installed new McCauley propeller model 3AF37C516/90LFB-0, s/n 972133. Engine accessories exchanged for remanufactured or new units except as noted. Installed new prop governor, s/n 970189. Installed factory overhauled turbocharger, s/n AF003435. Reused customer's tach generator and vacuum pump. Bendix type magnetos installed per STC SE4591SW and pressurized. See 337. SB94-8 on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. AD 86-13-04 R3 N/A per cylinder p/n. Cadmium plating of engine hardware and associated lines and fittings per QQ-P-416 C Class 2, Type II. C/W AD 75-23-08 R5 per inspections outlined in para's I A (1)(2)(3) of components in Table II. Inspected complete exhaust system upon disassembly. Installed new Aeroquip integral firesleeved fuel and oil hoses meeting TSO-C53A Type D and TSO-C75 Type III. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. Starter adapter shaftgear and crankshaft gear inspection c/w per TCM Service Bulletin CSB94-4 per installation of Service Kit EQ6642. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. AD 87-04-05 n/a per engine model. Engine serviced with Phillips multi-grade 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1web for recommended oils. AD 76-02-07 n/a per installation of ALV9510 alternator. AD 97-26-17 ultrasonic inspection per SB MSB96-10 c/w at engine overhaul this date. Due again at next overhaul or when crankshaft removed. TCM CSB96-8 c/w per installation of VAR crankshaft. AD 82-13-01 (Bendix Magnetos) is N/A per Black distributor block installation on factory rebuilt units. All aluminum alloy engine parts were coated per RAM Specification No. 1142. Crankshaft assy., connecting rods, pistons, piston pins and turbocharger compressor wheel assy's. were balanced per RAM Specification No. 1161. See RAM Certificate. Propeller balanced per Service Manual with spinner and bulkhead installed. Installed spring loaded induction clamps p/n 1170-1 per STC SE3767SW. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1366-1. All engine systems checked for leaks. Engine approved for return to service for RAM Aircraft test flight procedures. Pertinent details on file under Work Order No. 3225.

RAM Aircraft Corporation, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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Waco Regional Airport

Hour Meter: 89.2
SMOH: 9.6
Date: 4/23/98

Engine pump pressure, idle, mixture, fuel flow, max RPM, manifold pressure, and oil pressure adjusted per GTSIO-520-H specifications. Engine ground run power test good. Details are on file under Work Order No. 3225.

Sandy L. Lynn
RAM Aircraft Corporation, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

Hour Meter: 89.2
Since Remanufacture: 9.6
Date: 4/23/98

Changed oil and oil filter. Filter inspected for metal particles and found satisfactory. Serviced with Phillips Multi-Grade 20W-50 Type M mineral oil. Run and leak checked satisfactory. Pertinent details are on file under Work Order No. 3225.

Sandy L. Lynn
RAM Aircraft Corporation, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

5-27-98
Hobbs
103.5
Changed oil and filter. Changed waste gate
strainer. Test run checked for leaks.
Serviced with 11 qt Aeroshell 50 wt
oil. Ford

Michael Walden
A+B 438929507

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10-12-98		41.3	130.5	changed oil and serviced with 11qt. aeroshell 50 wt. det. oil. END Michael Putnam A+B 438929507
12-19-98		50.1	139.5	changed oil and filter serviced with 11qt. aeroshell 50 wt. det. oil changed waste gate filter performed all 50 HR insp. — END — — — — Michael Putnam A+B 438929507 J.A.
				Date <u>12-19-98</u> Total Time <u>50.1</u> smoot I certify that this engine engine has been inspected in accordance with an annual check inspection, and determined to be in airworthy condition.

RAM
AIRCRAFT CORPORATION

Waco Regional Airport

TCM GTSIO-520-H S/N R-218298-R

Right Engine

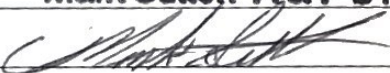
Date: 12-11-98

Above referenced engine was overhauled at RAM Aircraft Corporation 4-21-98 at total time of 2142.6 under Work Order no. 3225. Engine is eligible for 1600 hr. TBO per TCM SIL 98-9 Note 1.

Gary D. Hernandez
RAM Aircraft Corporation, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

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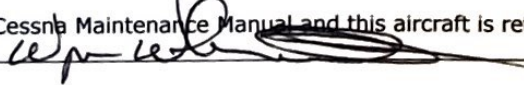
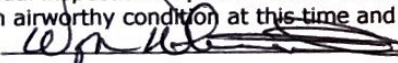
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7-28-04				*Continued*- mixture & Fuel pressure per m.p.m. washed down engine & cowling, lubed controls. Performed run-up, op's & 1k. ck'd. ok. AD# 2004-08-10 is N/A - NO ECI cylinders installed. All AD's ck'd. thru ATP revision dated 7-19-04. Engine returned to service.
Hobbs: 438.0				
SMOH: 358.4				
I certify this <u>Engine</u> has been inspected in accordance with an <u>Annual</u> inspection and was found to be in an airworthy condition at this time. Mark Sutton A & P 548046776 I.A. 				
12-12-06				
Hobbs: 523.2				Changed oil & Filter, Installed 12 qts. A/S W100-50 wt. & Champion CH48111 Filter. Compression ck'd. - #1 = $\frac{64}{80}$ #2 = $\frac{60}{80}$ #3 = $\frac{63}{80}$ #4 = $\frac{68}{80}$ #5 = $\frac{65}{80}$ #6 = $\frac{60}{80}$. Cleared, gapped, tested & rotated plugs. CK'd. mag. to Eng. timing. Removed waste-gate Filter - per RAM instructions, (no longer used). Replaced engine air Filter element, Brackett Ph# BA-108. Cleared air-oil separator. Complied with AD# 2005-20-04, (starter adapter), para. (F), (H) & (I). Replaced needle bearing with bushing, Ph# 654472. Gear back lash measured - .040" at all 4 positions. - due re inspection ea. 100 hrs. per A.D.. Removed starter adapter and performed 400 hr. inspection - gear teeth wear is ok. - due ea. 400 hrs. Re assembled starter adapter using new base gasket. Op's & 1k. ck'd. ok. washed down eng. & cowling. Performed run-up, op's & 1k. ck'd. ok. All AD's ck'd. For compliance thru ATP revision # 2005-26, dated 12-30-05.
Leak ck'd. ok.				
I certify this <u>Engine</u> has been inspected in accordance with an <u>Annual</u> inspection and was found to be in an airworthy condition at this time. Mark Sutton A & P 548046776 I.A. 				

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JULY 10, 2007				ANNUAL INSPECTION LEFT ENGINE, N79TD HOBBS: 542.7 TSMOH: 463.1 AD 2007-05-15(h)(2) due @ 642.7 hrs AD 2007-05-15(j)(2) due @ 923.2 hrs 1. Performed annual inspection I/A/W the annual inspection requirements listed in the Cessna Maintenance Manual. 2. Compression test: #1 72/80, #3 57/80, #5 72/80, #2 60/80, #4 55/80, #6 70/80 3. Changed oil, serviced engine with 12 qts Aeroshell W100 oil. 4. Installed new CH48111-1 oil filter, cut open old filter checked for metal and found none. 5. Installed new alternate air intake seals. 6. CW AD 2007-05-15(H)(1) inspection of the starter adapter assembly, next due @ 100hr interval or 642.7 hrs on the hobbs.(j)(2) next inspection due @ 923.2 hrs. 7. Checked all AD's through July 2007 with the ATP library. I certify this engine has been inspected I/A/W the annual inspection requirements listed in the Cessna Maintenance Manual and have determined this engine to be in airworthy condition at this time and is returned to service. A&P418647214IA Wayne Whisenant GADSDEN AVIATION LLC. 256-442-5111
JULY 25, 2007				OIL COOLER LEFT ENGINE, N79TD HOBBS: 543.4 SMOH: 463.8 1. Left engine oil leak. Found oil cooler leaking, replaced oil cooler with new part, p/n 2601-1 from RAM Aircraft. Ground run, test flight and found no leaks. This work was done I/A/W the Cessna Maintenance Manual and this engine is returned to service in airworthy condition with respect to the work performed. A&P 232788707 Mike Jones GADSDEN AVIATION LLC. 256-442-5111
AUGUST 20, 2007				CYLINDERS LEFT ENGINE, N79TD HOBBS: 549.2 SMOH: 459.6 1. Oil consumption was high on left engine. Compression test revealed the #3 cylinder was reading 38/80 with air blowing by the rings. 2. Removed #3 cylinder and installed cylinder assembly, GTSIO C D H NICKEL, FRCN72CA-221, from RAM Aircraft. 3. Removed #5 cylinder and replaced 2 exhaust studs, p/n 640482 and hardware, reinstalled. All work was done I/A/W the Cessna Maintenance Manual and the GTSIO 520 Overhaul Manual and this engine is returned to service in airworthy condition with respect to the work performed. A&P 232788707, Mike Jones GADSDEN AVIATION LLC. 256-442-5111
				SUB-TOTALS this page
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APRIL 23, 2008				LEFT ENGINE MAINTENANCE N79TD
HOBBS: 600.0				
1. Changed oil and serviced with 12 qts W100 Aeroshell oil and installed a new CH48111-1 oil filter. 2. C/W AD 2000-01-16(B), 50 hr visual inspection of the exhaust system, next inspection due @ 650.0 hrs hobbs time.				
All work was performed I/A/W the FAR's and the Cessna Maintenance Manual and this aircraft is returned to service. A&P/IA 1984373 WAYNE WHISENANT,  GADSDEN AVIATION, LLC. 256-442-5111				
AUGUST 19, 2008				ANNUAL INSPECTION LEFT ENGINE, N79TD
Hobbs: 666.8 TTSMOH: 587.2				
1. Performed annual inspection I/A/W the guidelines found in the C-421B Maintenance Manual. 2. Compression test results: #1-65/80, #3-78/80, #5-71/80, #2-72/80, #4-70/80, and #6-58/80. 3. Changed oil and serviced with 13 qts. Aeroshell 100 wt oil and new filter, CH48111-1. 4. Repaired fuel vent line. 5. C/W AD 2007-05-15(h)(1), inspection of the starter adapter assembly, next due @ 766.8 6. AD 2007-05-15(j)(2), this inspection due @ 923.2. 7. C/W AD 08-08-17, Turbine housing exhaust flange. N/A due to part name.				
I certify this engine has been inspected I/A/W the 100hr/annual inspection requirements as found in the C-421 Maintenance Manual and has been determined to be in airworthy condition at this time and is returned to service. A&P/IA 1984373, WAYNE WHISENANT  GADSDEN AVIATION, LLC. 256-442-5111				
DECEMBER 17, 2008				MAINTENANCE LEFT ENGINE N79TD
HOBBS: 711.0				
1. Push rod tube seals leaking, replaced 12 packing, p/n 534610, 12 "o" rings, p/n 630286, 24 washers, p/n 534609, 3 no blow exhaust gaskets on cylinders 1, 3 and 5, p/n 652458, 12 new exhaust nuts, p/n MS20500-42B and 12 new rocker box gaskets, p/n 655705. 2. C/W AD 2000-01-16(b), Visual inspection of the exhaust system. Next due @ 761.0 3. Found broken ground wire for the alternator inop sensor. Installed new terminal and reinstalled to alternator ground.				
I certify that all work was performed I/A/W the FAR's and the Cessna Service Manual and this engine is returned to service. A&P/IA 1984373 WAYNE WHISENANT  GADSDEN AVIATION, LLC. 256-442-5111				
RainAir Aircraft Services, LLC Located at Oneonta Airport, Oneonta AL 35121 (205)625-4664 Left Engine Log Entry				
Work Order: 140 Date: 6/11/09 Reg. #: N79TD Hobbs: 736.5				
Changed oil & filter, oil sample taken. (Skywatch) Installed 12 qts Aeroshell 15W-50 wt. & AA48111 oil filter. Replaced drain plug gasket, PN# AN900-10. Washed down engine. Performed run up, op's checked ok. All work performed I/A/W M/M. Engine returned to service.				
Date: 6/11/09 Name: Mark Sutton  LIC # A&P 548046776				
TOTALS Carry forward to next page				

This engine is returned to service, with respect to work performed.
C. Deven Mundy A&P 2848967 
Gadsden Aviation LLC, 256-442-5111

DATE

RainAir Aircraft Services, LLC

Located at Oneonta Airport, Oneonta AL 35121 (205)625-4664
Left Engine Log Entry

7636.4

Work Order: 240 Date: 11/11/2010 Reg. #: N79TD Hobbs: 831.0
Engine Model: GTS10-520-H S/N#: 231517-R SMOH: 751.4 TTE: 2894.0

Engine inspected for Annual in accordance with FAR 43, appd. "D", using Cessna 421 inspection guide and RAM instructions as a reference. Compression checked: #1=65/80 #2=72/80 #3=76/80 #4=72/80 #5=73/80 #6=63/80. Master orifice=43psi. Changed oil and filter. Installed 12 qts. Aeroshell W100-50wt. and Champion CH48111-1 filter, replaced oil drain plug gasket, P/N#AN900-10. Reset L/mag to 20°. Removed R/H magneto, installed new points, P/N# ES10-382585. **Performed 500 hour internal magneto inspection.** Reinstalled magneto using new base gasket, P/N# 10-400613 and timed to 20°. Cleaned, gapped, tested and rotated plugs. Checked fuel control screen. Replaced engine air filter element, Brackett P/N#BA-13. Complied with A.D. #2000-01-16, (Exhaust inspection) parts (b),(c),(d),(e) and (f), see airframe log for details. Complied with A.D. #2007-05-15, I/A/W TCM MSB94-4G, part 2. Part 3 of MSB is due at Hobbs: 923.2. Back lash measurement is 0.05" at all 4 positions. All A.D.'s checked for compliance thru "T" Data, revision #2010-22, dated 10/25/10. Washed down engine and cowlings, lubed controls. Mouse-milked wastegate and controller. Performed run up, op's and leak checked ok. I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition at this time. Engine returned service.

Mark Sutton

Date: 11/11/2010 Name: [Signature] LIC # A&P 548046776 I.A.

RainAir Aircraft Services, LLC

Located at Albertville Regional Airport, Albertville, Alabama
Left Engine Log Entry

Work Order: 307 Date: 6/9/11 Reg. #: N79TD Hobbs: 880.0 Cessna 421B

Replaced starter with overhauled unit, P/N# MHJ-4003S, S/N# H-K120271, see airframe log for details. Replaced alternator with overhauled unit, P/N# ALV-9510, S/N# A600167, see airframe log for details. Changed oil & filter, installed 12 qts. Aeroshell W100-50 wt oil and Champion CH48111-1 filter. Washed down engine and cowlings. Performed run up, operational and leak check ok. Engine returned to service.

Mark Sutton

Name: [Signature] Lic. # 548046776 A&P

RainAir Aircraft Services, LLC

300 Aldredge Dr. Albertville, Al. 35950 (256) 660-1311

W/O# 412

L/H ENGINE LOG ENTRY

3 March. 2012

N79TD

Continental Model: GTS10-520-H S/N# 231517-R Hobbs: 916.7 TTAE: 2979.7 SMOH: 837.1

Engine inspected for Annual I/A/W FAR part 43, appd. "d", using Cessna 421 inspection guide and RAM instructions as a reference. Performed compression test, all cylinders tested 62/80 psi or better, master orifice= 44psi. Cleaned, gapped, tested and rotated plugs. Changed oil and filter, installed 12 qts. Aeroshell W100-50wt. and Champion CH48111-1 filter. Replaced oil drain plug gasket, P/N# AN900-10. Checked fuel control inlet screen. Replaced air filter element, Brackett P/N# BA-13. Complied with A.D. #00-01-16, (exhaust insp.), on exhaust system, para. (b), (c), and (e). Replaced missing bolt, nut and spring, P/N# 186-225, on inbd. slip joint. Replaced bypass flex duct with new part, P/N# K5155157-1, S/N# 200570, manufactured by Kinsley Welding, Inc., DMIR602254NM, under W/O# P69490. Balance of exhaust components checked ok. Complied with A.D. # 2007-05-15 on starter adapter, unit failed inspection I/A/W TCM MSB94-4G, part 2. Removed adapter and inspected I/A/W part 3 of SB, unit failed inspection. **Installed overhauled starter adapter, P/N# 643259A43, and new crankshaft gear, P/N#653580, furnished in kit P/N# R-EQ6642, furnished by Continental Motors, Inc. PC# 508.** Installation completed I/A/W service kit installation instructions and TCM maintenance manual. Assembled using all new gaskets, seals and hardware furnished in kit. All A.D.'s ck'd. for compliance thru T-Data revision# 2012-04, dated 02/27/2012. Washed down engine and cowlings. Performed run up, op's and leak ck'd. ok. I certify that this Engine has been inspected I/A/W an Annual inspection and was found to be in an Airworthy condition at this time. Engine returned to service.

Mark Sutton A&P 548046776 I.A.

[Signature]

RainAir
Located at the Alber

Ph. _____

Left engine Log entry

N79TD

Date: 07/12/2013 W/O# 594 Continental Model: GTSIO-520H S/N# 231517-R Hobbs: 934.7 TTE: 2997.7 SMOH: 855.1

Performed Annual inspection I/A/W FAR 43 Appendix D, using Cessna 421 Inspection Chart and RAM instructions as a reference. Performed compression check: #1=66/80, #2=62/80, #3=71/80, #4=62/80, #5=66/80, #6=64/80. Master orifice=39. Drained oil, refilled sump with 12qts. Aeroshell W100- 50 wt. Replaced oil filter with new Champion CH48111-1. Cut open old filter and inspected, no defects noted. Checked mag. to engine timing, ck'd ok. Cleaned, gapped, tested and rotated spark plugs, re-installed with new P/N# M-674 gaskets. Inspected fuel control inlet screen, checked ok. Washed down engine and cowling. Lubricated control rod ends and linkage. Lubed waste gate and controller with mouse milk. Performed run up, operational and leak check ok. All AD's checked for compliance thru T-data revision# 2013-13, dated 07/01/2013. I certify that this engine has been inspected in accordance with an Annual Inspection and is determined to be in an Airworthy condition at this time. Engine approved for return to service

Mark Sutton

Date 07/12/2013 Signature:  Certificate # A&P 548046776 IA

8/30/13 Hobbs: 935.3 - Engine removed for repair  A&P 548046776

**John
Jewell**
AIRCRAFT, INC.

Holly Springs Marshall Co Airport
Hwy 78 West, P O Box 399
Holly Springs, MS 38635

Page 1

Engine Model: GTSIO-520-H

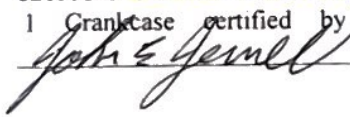
November 26, 2013

W/O# J6550

Engine S/N: 231517R

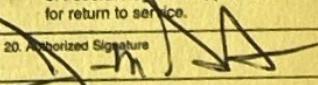
Disassembled engine to install certified crankcase and gears. Steel parts magnafluxed. Engine reassembled using following new parts: 1 #535823 seal; 1 #SA641250 crank seal; 1 #633024A2M010 bearing set; 4 #SA649205 screw; 2 #SA641909 lock plate; 2 #646920 screw; 1 #502287-3 snap ring; 24 #SA629004 snap ring; 24 #SA631808 plate; 12 #643626-104 pin; 6 #SA536379 crank screw; 4 #SA537019 screw; 4 #SA535666 cam screw; 12 #654490 rod nut; 12 #655961 rod bolt; 12 #SA630826M010 rod bearing; 6 #CN110 Nickel ring set; 24 #501868 lock tab; 24 #24802 key; 1 #646556A1 gasket set; 1 #MS35756-6 key; 4 #SA638172 mag rubber; 5 #SA636242P010 guide; 1 #SA636242P020 guide; 2 #SA539988 Serviceable intake valve; 1 #631918 pipe plug; 24 #MS20500-428 exhaust nut; 12 #SA646985 seal; 2 #10-391389 mag gasket; 2 #10-391391 gasket. 6 #653877 Lifter certified by A/C Specialties W/O# 221200. 6 #653888 Lifters certified by A/C Specialties W/O# 221200. 1 #653056 Camshaft certified by A/C Specialties W/O# 221200. 1 Crankshaft (M010) certified by A/C Specialties W/O# 219809. 1 Quill Shaft certified by A/C Specialties W/O# 221201. 1 Prop Drive Shaft (M010) certified by A/C Specialties W/O# 221201. 1 Bull Gear (M010) certified by A/C Specialties W/O# 221201. 1 #10-349260-7 Mag S/N G259124FR O/H by Continental Motors W/O# 821995-1. 1 #10-349420-2 Mag S/N J27924FR O/H by Quality A/C Accessories W/O# WO1170010948.

1 Crankcase certified by Divco W/O# 110566. Engine Was Not Run On Test Cell.

 A&P2088862-----END-----

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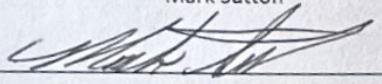
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1. Approving National Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking No.: 9094	
4. Organization Name and Address: South Coast Propeller Service, Inc. 5750 Durose Drive, Bessemer, AL 35022 S6PR302X (205) 426-7022 • Fax: (205) 426-7026				5. Work Order/Contract/Invoice Number: SR-9094			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status Work:	
1	McCauley Governor	DCFS290D9/T6	N/A	1	970189	Repaired	
13. Remarks: GOVERNOR PARTIALLY DISASSEMBLED, CLEANED AND FLUSHED. PARTS VISUALLY INSPECTED FOR WEAR. REPLACED SEALS AND GASKETS. REASSEMBLED, BENCH CHECKED AND FUNCTION TESTED.							
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ 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:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: S6PR302X	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): JAMES M. GAITHER, GM		23. Date (m/d/y): Sept. 25, 2013	
User/Installer Responsibilities							
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. 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.							
FAA Form 8130-3 (8-01)				* Installer must cross check eligibility with applicable technical data.		NSN: 0052-00-012-9005	

RainAir Aircraft Services, LLC
Located at the Albertville Airport, Albertville, AL 35950
Ph.# (256) 660-1311
Left Engine Log Entry
N79TD

Date: 07/01/2014 W/O# 770 Continental Model: GTSIO-520H S/N#: 231517-R Hobbs: 935.8 TTE: 2998.8 SMOH: 856.2
Engine re-installed, using original lord mounts and hoses, after outside repair, (see previous entry). Performed Annual inspection I/A/W FAR 43 Appendix D, using Cessna 421 Inspection Chart and RAM instructions as a reference. Filled sump with 12qts. Aeroshell 50 wt. mineral oil. Installed new Champion CH48111-1, oil filter. Checked mag. to engine timing, ck'd. ok. Cleaned, gapped, tested and rotated spark plugs, re-installed with new P/N# M-674 gaskets. Inspected fuel control inlet screen, checked ok. Washed down engine and cowling. Lubricated control rod ends and linkage. Lubed waste gate and controller with mouse milk. Performed numerous ground runs, for initial ring seating, operational and leak check ok. Verified fuel pressure and flow settings per TCM SID 97-3, checked ok. All AD's checked for compliance thru T-data revision# 2014-12, dated 06/16/2014. I certify that this engine has been inspected in accordance with an Annual Inspection and is determined to be in an Airworthy condition at this time. Engine approved for return to service.

Mark Sutton

Date: 07/01/2014 Signature:  Certificate #: A&P 548046776 I.A.

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DATE			A.I.R. Aircraft Inspection & Repair LLC R.L. Jones Airport (RVS)-Tulsa, Oklahoma 74132 (918)296-0901		ENGINE LH
	REG. # N79TD		SERIAL #	WORK ORDER # 79TD.0618	SMOH TACH 7854.5 HOBBS 1048.1
COMPLIED WITH AD 2000-01-16 BY VISUAL INSPECTION OF THE LH & RH EXHAUST SYSTEM FOR LEAKS, CRACKS, OR DAMAGE IN ACCORDANCE WITH PARAGRAPHS b, c, d & e. COMPLIED WITH AD 72-14-08 BY PRESSURE TESTING ALL FLEXIBLE FUEL HOSES IN ENGINE COMPARTMENT FOR LEAKS, CRACKS, CUTS, BULGES, DISCOLORATION, HARDNESS, CHAFFING & EXCESSIVE WEAR. REMOVED LEFT ENGINE DRIVEN FUEL PUMP FOR REPAIR DUE TO OIL LEAK AT SHAFT SEAL, REINSTALLED P/N 646211-2 S/N H049705BR. CHECKED CYLINDER COMPRESSIONS, FOUND ALL IN SERVICEABLE CONDITION. CHECKED CYLINDER COMPRESSIONS, FOUND ALL IN SERVICEABLE CONDITION. DRAINED OIL AND CHANGED FILTER. SERVICED WITH AEROSHELL 100W OIL AND INSTALLED NEW CH48111-1 FILTER. GROUND RUN, LEAK CHECK OK. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHINESS CONDITION AS OF THIS DATE.					
DATE: 09.07.2018		 BARRY BREDENSTEINER/2793773 AP/IA			

Left Engine

Continental GTSIO-520-H S/N L-231517-R

2/1/2020 Engine TTSN 3161.6 TSOH 1019.0 Aircraft Hobbs 1098.6

Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 72/80 #2 62/80 #3 72/80 #4 60/80 #5 68/80 #6 64/80 Drained engine oil, And serviced with 12 qts AS W100 oil. Removed, cut and inspected oil filters, Installed new Champion filter P/N CH48111. All AD's checked through By-Weekly 2020-1 C/W AD 2007-05-15 (Starter Adapter Backlash Inspection) not due at this time. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

Left Engine

Continental GTSIO-520-H S/N L-231517-R

5/11/2021 Engine TTSN 3188.0 TSOH 1045.4 Aircraft Hobbs 1125.0

Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 72/80 #2 62/80 #3 72/80 #4 60/80 #5 68/80 #6 64/80 Drained engine oil, And serviced with 12 qts AS W100 oil. Removed, cut and inspected oil filters, Installed new Champion filter P/N CH48111. All AD's checked through By-Weekly 2021-11 C/W AD 2007-05-15 (Starter Adapter Backlash Inspection) not due at this time. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

DATE

Left Engine

Continental GTSIO-520-H S/N L-231517-R

6/8/2022 Engine TTSN 3210.1 TSOH 1067.5 Aircraft Hobbs 1147.7

Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 78/80 #2 74/80 #3 79/80 #4 76/80 #5 69/80 #6 66/80 All AD's checked through By-Weekly 2022-13 C/W AD 2007-05-15 (Starter Adapter Backlash Inspection) not due at this time. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

Left Engine

Continental GTSIO-520-H S/N L-231517-R

8/16/2023 Engine TTSN 3221.7 TSOH 1079.1 Aircraft Hobbs 1159.3 Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 69/80 #2 77/80 #3 76/80 #4 68/80 #5 76/80 #6 72/80 Removed Oil Cooler and reinstalled Overhauled Cooler P/N 8538182 S/N 489 by (Pacific Oil Cooler Service). Installed Vernatherm P/N 07-06905 after functional check by (Pacific Oil Cooler Service). Drained engine oil, And serviced with 12 qts AS W100 oil. Removed, cut and inspected oil filters, Installed new Champion filter P/N CH48110-1. All AD's checked through By-Weekly 2023-17 Found AD 2023-05-16 (Crankshaft) N/A by not having any crankshaft work done after June 1, 2021. Found AD 2023-02-12 (SAP Valves) N/A by not having any cylinder work after Jan 20, 2022. C/W AD 2007-05-15 (Starter Adapter Backlash Inspection) not due at this time. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

Left Engine

Continental GTSIO-520-H S/N L-231517-R

9/13/2024 Engine TTSN 3233.3 TSOH 1090.7 Aircraft Hobbs 1170.9 Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 69/80 #2 77/80 #3 76/80 #4 68/80 #5 76/80 #6 72/80 Removed Oil Cooler and reinstalled Overhauled Cooler P/N 8538182 S/N 489 by (Pacific Oil Cooler Service). Installed Vernatherm P/N 07-06905 after functional check by (Pacific Oil Cooler Service). Drained engine oil, And serviced with 12 qts AS W100 oil. Removed, cut and inspected oil filters, Installed new Champion filter P/N CH48110-1. All AD's checked through By-Weekly 2024-18 Found AD 2023-05-16 (Crankshaft) N/A by not having any crankshaft work done after June 1 2021. Found AD 2023-02-12 (SAP Valves) N/A by not having any cylinder work after Jan 20, 2022. C/W AD 2007-05-15 (Starter Adapter Backlash Inspection) not due at this time. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

DATE

Left Engine

Continental GTS10-520-H S/N L-231517-R

11/12/2025 Engine TTSN 3255.7 TSOH 1113.1 Aircraft Hobbs 1193.3 Complied with annual inspection this date as per Cessna 421 inspection guide. Compression checked as follows #1 69/80 #2 77/80 #3 76/80 #4 68/80 #5 76/80 #6 72/80 All AD's checked through By-Weekly 2025-20 Found AD 2007-05-15 (Starter Adapter Backlash Inspection) next due at 1416.7. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge *Marvin Coolidge*
AP27571071A.

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