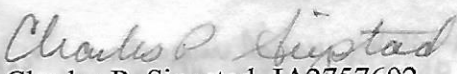



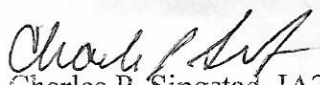
| DATE | TOTAL TIME IN | TOTAL TIME SINCE | TACH OR RECORDING | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|-----------------------------------|---------------|------------------|-------------------|--|
| 1/14/05 | | | | <p>DATE <u>1/14/05</u> HOBBS/TACH <u>2723.8</u></p> <p>THIS ENGINE S/N <u>607019</u> MAJOR OVERHAULED THIS DATE IN ACCORDANCE WITH TCM OVERHAUL MANUAL X30045A. ENGINE DISASSEMBLED, CLEANED, VISUALLY INSPECTED. CASE OVERHAULED BY NICKSON'S. CRANKSHAFT GROUND 0.010 BOTH MAIN AND ROD JOURNALS. CERTIFIED BY ECI. COUNTERWEIGHTS WITH NEW BUSHINGS. ALL GEARS MAGNAFLUXED AND YELLOW TAGGED FOR RETURN TO SERVICE OR REPLACED WITH SERVICEABLE PARTS (QUILL SHAFT, OIL PUMP DRIVER GEAR AND PROP GOVERNOR GEAR). ENGINE ASSEMBLED WITH NEW MAIN, ROD, PROP SHAFT AND DRIVER GEAR BEARINGS, ROD BOLTS, NUTS, CRANK AND CAM GEAR BOLTS, ALT FACE GEAR BOLTS, IDLER GEAR SNAP RINGS, LIFTERS, IGNITION HARNESS SPARK PLUGS, MAGNETO DRIVE CUSHIONS. CYLINDER ASSMS FURNISHED BY GIBSON, REBARRELLED STD SIZE COMPLETELY ASSEMBLED, INCLUDING NEW PISTONS, PISTON PINS, RINGS, EXH AND INTAKE VALVES, VLV SPRINGS, KEEPERS, ROTOS COILS, R/A BUSHING AND SHAFTS. SEE YELLOW TAGS. FACTORY REBUILT STARTER DRIVE ADAPTER AND CRANK GEAR TO C/W TCM SB 94-4. REPLACED OIL PRESS SPRING, OIL TEMP CONTROL VALVE KEY LOCK TABS, GASKETS AND SEALS. CAMSHAFT REGROUND AND CERTIFIED. CONNECTING RODS REGROUND AND CERTIFIED. EXHAUST STACKS REPAIRED AS NEEDED AND CERTIFIED. SEE YELLOW TAGS FOR CERTIFIED COMPONENTS. 7TH STUD KIT FITTED TO CRANKCASE. ALL TCM SERVICE BULLETINS COMPLIED WITH. ENGINE ACCESSORIES OVERHAULED INCLUDING PROP GOVERNOR, FUEL PUMP, MAGNETOS, WASTE GATE, CONTROLLER, FUEL PRESSURE REGULATOR, NOZZLES, FLOW DIVIDER, ALTERNATOR, VACUUM PUMP, STARTER, CONTROL VALVE & Y, OIL COOLER. ALL HOSES REPLACED WITH NEW. ENGINE INSTALLED WITH NEW RUBBER ENGINE MOUNTS. ALL APPLICABLE TCM SB'S COMPLIED WITH AND ALL ENGINE TORQUES CHECKED. ENGINE SERVICED WITH STRAIGHT MINERAL OIL, PRELUBED AND THEN GROUND RUNS CONDUCTED WITHOUT OVERHEATING ACCORDING TO TCM PROCEDURES. AIRCRAFT TEST FLOWN AND RETURNED TO SERVICE.</p> <p><i>Charles P. Shugstad</i> AP2757602</p> |
| 8/15/05 | 25 | 2748 | | <p>Oil filter CH48111 removed and replaced with new filter. Serviced E AS15W50 12 gts. Run up & leave ✓ OK. Chw AD 72-14-8 and 2004-16 by visual inspection.</p> <p><i>Charles P. Shugstad</i> AP2757602</p> |
| 8/15/05 | | | | <p>Comp ✓</p> <p> #1 75/80 #2 73/80 #3 75/80 #4 70/80 #5 71/80 #6 72/80 </p> <p><i>Charles P. Shugstad</i> AP2757602</p> |
| 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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| | | | | TOTALS brought forward from previous page |
| 8/15/05 | 25 | | 2748 | 8/15/05 In accordance with annual inspection and was determined to be in satisfactory condition. <i>Charles P. Degetad</i> AP 2757602 |
| 1/10/06 | | | | Oil filter CH48111 removed and replaced with new filter. Serviced E AS 15W50 12 quarts. Run up and leak check OK. C/w AD 72-14-8 + 2001-1-16 by visual inspection. <i>Charles P. Degetad</i> AP 2757602 |
| 10/9/06 | 57 | | 2780 | Oil filter removed + replaced with new filter. Serviced with 12 qts ASW100. Comp ✓ #1 74/80, #2 75/80, #3 75/80, #4 70/80, #5 74/80, #6 72/80. Run up and leak check OK. C/w AD 72-14-8 + 2001-1-16 by visual inspection. <i>Charles P. Degetad</i> IA 2757602 |
| 11/28/06 | | | | Installed new tailpipe from Knisley Welding this date. Run up / leak ✓ good. <i>Charles P. Degetad</i> AP 2757602 |

SUB-TOTALS this page

TOTALS—Carry forward to next page

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|---|-----------------------|---------------------------|------------------------------|---|
| SUN EAGLE AVIATION, Boerne Stage Airfield, TX (5C1) | | | | |
| Date: 3/5/2011 | Engine Log: Right | N4MU | | |
| Hobbs: 2909.0 | Cessna 421B | Aircraft SN: 421B-0054 | | |
| Engine: TSOH: 185.2 | SN: 607019 | Engine Type: GTSIO520-H | | |
| Aircraft TT: 8275.7 | | | | |
| Engine Cylinder Compressions: (1) 62 (2) 70 (3) 65 (4) 67 (5) 63 (6) 70 | | | | |
| Changed oil and filter CH48111-1 and serviced with ASW100. Cleaned, gapped, tested, rotated and reinstalled spark plugs. Cleaned engine and engine compartment. Complied with AD72-14-8R1 flexible hose assemblies by visual and pressurization test. Replaced Bracket air filter element. Complied with AD2000-1-16 parts b,c,d,e,f by visual inspection, tailpipe removal, and pressurization of exhaust. Complied with AD2007-5-15 using TCM MSB 94-4G part 2. Part 3 next due at hobbs 3123.8. Accomplished an annual inspection IAW FAR 43 Appendix D and Cessna service manual and determined this engine to be in an airworthy condition. | | | | |
|  Charles P. Singstad, IA2757602 | | | | |
| | | | | |
| SUN EAGLE AVIATION, Boerne Stage Airfield, TX (5C1) | | | | |
| Date: 6/25/2013 | Engine Log: Right | N4MU | | |
| Hobbs: 2911.0 | Cessna 421B | Aircraft SN: 421B-0054 | | |
| Engine: TSOH: 187.2 | SN: 607019 | Engine Type: GTSIO520-H | | |
| Aircraft TT: 8277.7 | | | | |
| Engine Cylinder Compressions: (1) 70 (2) 72 (3) 70 (4) 73 (5) 72 (6) 73 | | | | |
| Cleaned and tested all spark plugs. Cleaned engine and engine compartment. Complied with AD72-14-8R1 flexible hose assemblies by visual and pressurization test. Complied with AD2000-1-16 parts b,c,d,e,f by visual inspection, tailpipe removal, and pressurization of exhaust. Complied with AD2007-5-15 using TCM MSB 94-4G part 2. Part 3 next due at hobbs 3123.8. AD 2012-03-06 N/A by overhaul date. AD 2011-13-03 N/A by time in service. AD 2010-07-08 N/A by overhaul date. Accomplished an annual inspection IAW FAR 43 Appendix D and Cessna service manual and determined this engine to be in an airworthy condition. | | | | |
|  Charles P. Singstad, IA2757602 | | | | |
| | | | | |

| 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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| SUN EAGLE AVIATION, Boerne Stage Airfield, TX (5C1) Date: 8/01/2015 Engine Log: Right N4MU Hobbs: 2910.0 Cessna 421B Aircraft SN: 421B-0054 Engine: TSOH: 185.2 SN: 607019 Engine Type: GTSIO520-H Aircraft TT: 8275.7 | | | | |
| Engine Cylinder Compressions: (1) 70 (2) 68 (3) 60 (4) 64 (5) 60 (6) 65 Changed oil and filter CH48111-1 and serviced with ASW100. Cleaned, gapped, tested, rotated and reinstalled spark plugs. Cleaned engine and engine compartment. Complied with AD72-14-8R1 flexible hose assemblies by visual and pressurization test. Complied with AD2000-1-16 parts b,c,d,e,f by visual inspection, tailpipe removal, and pressurization of exhaust. Replaced oil hose/firesleeve assembly from engine to oil filter. Replaced oil cooler with yellow tagged unit. Complied with AD2007-5-15 using TCM MSB 94-4G part 2. Part 3 next due at hobbs 3123.8. Starter gear lash measurements (.03, .04, .02, .04) are within service limits. Removed and sent for repair engine fuel pump, fuel pressure controller. Reinstalled and fuel system adjusted IAW TCM SID 97-3b. Engine runup and leak check performed and all parameters normal. Accomplished a 100 hr inspection IAW FAR 43 Appendix D and Cessna service manual and determined this engine to be in an airworthy condition. | | | | |
|  Charles P. Singstad, IA2757602 | | | | |
| 10/20/15 | | | | Removed magnetos for 500hr inspection by Navajo Accessories. Reinstalled magnetos and timed to engine. Removed fuel injection nozzles for cleaning and reinstalled with new gaskets. Engine run up performed and all parameters normal. |
| 2914.0 | | | | Charles P. Singstad AP 2757602 |
| | | | | 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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| SUN EAGLE AVIATION, Boerne Stage Airfield, TX (5C1) Date: 01/02/2017 Engine Log: Right N4MU Hobbs: 2916.6 Cessna 421B Aircraft SN: 421B-0054 Engine: TSOH: 191.8 SN: 607019 Engine Type: GTSIO520-H Aircraft TT: 8282.3 | | | | |
| Engine Cylinder Compressions: (1) 70 (2) 70 (3) 65 (4) 72 (5) 70 (6) 65 Cleaned, gapped, tested, rotated and reinstalled spark plugs. Cleaned engine and engine compartment. Complied with AD72-14-8R1 flexible hose assemblies by visual and pressurization test. Complied with AD2000-1-16 parts b,c,d,e,f by visual inspection, tailpipe removal, and pressurization of exhaust. Complied with AD2007-5-15 using TCM MSB 94-4G part 2. Part 3 due hobbs 3123.8. Starter gear lash measurements (.03,.04,.02,.02) are within service limits. PCWAD 2016-16-12, no ECI cylinders installed. Engine runup and leak check performed and all parameters within limits. Accomplished a 100 hr inspection IAW FAR 43 Appendix D and Cessna service manual and determined this engine to be in an airworthy condition. | | | | |
| <i>Charles P. Singstad</i> Charles P. Singstad, IA2757602 | | | | |
| 6/21/17 Hobbs 2921.3 TSMOH 196.5 Changed oil 10qts 45w100 + filter CH48111-1. Run up + leak ✓ performed. <i>Charles P. Singstad AP 2757602</i> | | | | |
| | | | | SUB-TOTALS this page |
| | | | | TOTALS -Carry forward to next page |

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PARADISE VALLEY AVIATION

1413 East Main Street, Clarksville AR 72830 . 479-243-6604

Date: April 19, 2018
Registration #: N4MU

Model: GTSIO-520-H
Hobbs: 2938.6

Serial Number: 607019
TSMOH: 213.8

Performed a 100HR/ANNUAL Inspection in accordance with FAR 43 appendix "D" using Cessna 421B inspection guide. Compressions checked cold as follows: #1 74/80, #2 71/80, #3 68/80, #4 74/80, #5 66/80, #6 70/80. Installed new Brackett induction filter P/N BA13. Repositioned and tightened Air Conditioning belt. Cleaned and inspected fuel injectors and installed new injector seals. Repaired heat shield on left aft isolator mount. Serviced engine with Aeroshell 100W oil. Complied with AD2007-05-15 by inspection and backlash check of starter adapter and crankshaft gear, section H due each 100 hours, section J due each 400 hours, all found satisfactory. All ground operational and leak checks good.

I certify this engine has been inspected In accordance with a 100 hour/Annual inspection and was found to be in airworthy condition.

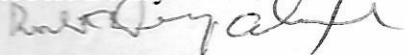
Signed _____

Vernon Hampton A&P431417955IA

 LAKELAND AVIATION, INC. ARDMORE MUNICIPAL AIRPORT 
FBO Services, Aircraft Service- Sales- Rental-Pilot Shop
800-687-9588

03-28-19 N4MU C421B s/n 0054 Hobbs 2949.6

Troubleshoot inop R/H tach. Removed R/H tach generator and cleaned terminals in connector and cannon plug. Reinstalled generator and test ran engine, checks OK. Inflated R/H strut with nitrogen. All work accomplished in accordance with Cessna Maintenance Manual. Aircraft approved for return to service for work accomplished. Robert Denny Alexander A&P2125366



SUB-TOTALS this page

TOTALS-Carry forward to next page

| DATE | TOTAL TIME | TOTAL TIME | TACH OR RECORDING | DESCRIPTION OF WORK PERFORMED |
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| | TAIL NUM: N5MU | DAVIS FIELD AVIATION, LLC 1200 Sabre St Muskogee, OK 74403 (918) 682-4101 | | HOBBS TIME: 2945.7 |
| | MODEL: TCM GTSIO-520-H | | | ENG TOTAL TIME: UNKN |
| | S/N: 607019 | | | SMOH: 220.9 |
| | | | | DATE: 04-02-20 |


Engine ran for op's checks. Oil not drained due to low hours. Cylinder comp. #1 60/, #2 60/, #3 52/, #4 68/, #5 58/, and #6, 60/80. Installed 12 each new plugs, P/N URHB32E. Installed new gasket in oil filler cap. Reinstalled wet vacuum pump after overhaul, S/N 17230, see attached WO# 37290. Reinstalled overhauled governor S/N 1754745, See attached WO# 37163. Replaced rod end on governor control at governor. Installed 2 each new rub blocks in support bracket for prop synchronizer at governor control attachment. Replaced seals in upper deck pressure lines to injectors. Installed overhauled tach generator S/N 15418. Replaced broken fuel line supports as needed. Removed fuel control screen, cleaned, inspected and reinstalled. C/W AD 2000-01-16 Exhaust visually inspected with no defects noted. C/W AD 2007-05-15 Starter backlash checked ok. AD's checked and complied with as applicable and ~~ok~~ at this time. Engine washed with solvent and cowl reinstalled. I certify that this engine was inspected I/A/W a 100 hour inspection and was determined airworthy for return to service this date.

Reg. Kimball AP 000752096

16 Sep 2020 HOBBS: 2945.7


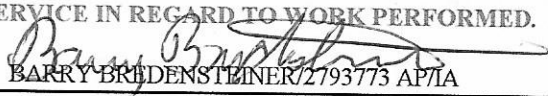


CHANGED OIL FILTER - CUT OIL FILTER - NO CONTAMINATES NOTED. INSTALLED NEW CHAMPION CH48111-1.

Barry Bredensteiner AP3783329.

|  AIR Aircraft Inspection & Repair LLC R.L. Jones Airport (RVS)-Tulsa, Oklahoma 74132 (918)296-0901 | | ENGINE RH |
|---|----------|----------------------|
| REG.# N4MU | SERIAL # | WORK ORDER# 4MU.0821 |
| DRAINED OIL, TAKING SAMPLE. CHECKED FILTER FOR CONTAMINATES, NONE NOTED AT THIS TIME. INSTALLED NEW CH48111-1 OIL FILTER. SERVICED ENGINE WITH 11 QTS AEROSHELL W100 PLUS OIL. WASHED ENGINE, GROUND RUN, OPERATION & LEAK CHECK OK. ENGINE COMPRESSION: RH #1 74/80, #2 68/80, #3 76/80, #4 65/80, #5 64/80, #6 67/80. REMOVED RH ENGINE INNER COOLER. REPLACED ORING WITH NEW P/N AS3578-252. TIGHTENED AND SAFETIED BOLTS. REINSTALLED. TROUBLESHOT RH ENGINE FOR LEAKS. TIGHTENED ALL LOOSE BOLTS / NUTS. PULLED #1 AFT VALVE COVER. TIGHTENED LOOSE PLUG. REPLACED LEAKING PUSH ROD TUBE SEAL. REINSTALLED TUBE AND VALVE COVER. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. | | SMOH TACH |
| DATE: 09.16.2021 | | HOBBS 2945.6 |
| <i>Barry Bredensteiner</i> BARRY BREDENSTEINER/2793773 AP/IA | | |

SUB-TOTALS this page

TOTALS-Carry forward to next page

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| TOTALS brought forward from previous page | | | | |
|  | | A.I.R. Aircraft Inspection & Repair LLC R.L. Jones Airport (RVS)-Tulsa, Oklahoma 74132 (918)296-0901 | | ENGINE RH |
| | | | | SMOH TACH |
| REG.# N4MU | SERIAL # | WORK ORDER# 4MU.0322 | | HOBBS 2970.7 |
| DRAINED OIL, TAKING SAMPLE. CHECKED FILTER FOR CONTAMINATES, NONE NOTED AT THIS TIME. INSTALLED NEW CH48111-1 OIL FILTER. SERVICED ENGINE WITH 11 QTS AEROSHELL W100 PLUS OIL. WASHED ENGINE, GROUND RUN, OPERATION & LEAK CHECK OK. COMPLIED WITH AD 2000-01-16 BY VISUAL INSPECTION OF THE EXHAUST SYSTEM FOR LEAKS, CRACKS, OR DAMAGE IN ACCORDANCE WITH PARAGRAPH b. NONE NOTED AT THIS TIME. ENGINE RETURNED TO SERVICE IN REGARD TO WORK PERFORMED. | | | | |
| DATE: 03.05.2022 | |  BARRY BREIDENSTEINER/2793773 AP7A | | |
| <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  <p>N4MU RH engine GTSIO-520-H S/N 607019 HOBBS: 2997.9 SMOH: 273.1 Date: 11-04-2022</p> <p>Checked cylinder compressions COLD #1-65/80, #2-67/80, #3-72/80, #4-60/80, #5-68/80, #6-60/80, bore scoped cylinders for defects, no issues found at this time, removed both mags for OH by Aircraft Accessories of Oklahoma reinstalled and timed to engine LH s/n F22B4221R, RH s/n F22BA235R, drained oil and took sample for analysis, cut oil filter for inspection, replaced with new CH48111-1 and filled with (12qts.) Aeroshell 100w Plus, removed/cleaned/tested and reinstalled spark plugs with (12) new gaskets M-674, removed and replaced all flexible fluid lines from firewall forward provided by Precision Hose Technologies, itemized hose list is on file with log book, I certify this power plant to be in an airworthy condition by 100hr inspection provided by FAR43 appendix D on this date.</p> <p>Steele Aerospace Services LLC Steele A. Sensintaffar A+P 3582404</p> </div> <div style="flex: 1; text-align: center;">  </div> </div> | | | | |
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| SUB-TOTALS this page | | | | |
| TOTALS-Carry forward to next page | | | | |