

8/7/2007 TACH 2679.0 IO-520-BA SERIAL # 241725-R

THIS ENGINE OVERHAULED IN ACCORDANCE WITH TELEDYNE CONTINENTAL MOTORS OVERHAUL MANUAL. THE FOLLOWING NEW PARTS WERE INSTALLED.

PARTS:

1-AEC630693-10.44 BOLT	1-K6320-32 IGNITION KIT
1-AEC630943-6.19 BOLT	4-7351231-3 ENGINE MOUNTS
1-652887-5.31 BOLT	6-653877 LIFTERS
8-AEC641931-10.75 BOLTS	6-653888 LIFTERS
16-629104 CLIPS	1-4646327 HOUSING
16-643629 PLATES	1-4631650 SHAFT
2-643626-103 PINS	1-642083-A10 STARTER ADAP
6-643626-101 PINS	1-CB 37000 DRAIN
4-654587-.44 BOLTS	1-AN894-4-2 ADAPTER
2-641909 LOCKPLATES	1-AEC646593A1M010 BRGS SET
4-SA638172 BUSHINGS	1-641250 SEAL
1-AEC629680M010 COLLAR	12-AEC630826 CON ROD BRGS
8-642917-1 HOSES	6-656990 SCREWS
1-CH48109-1 FILTER	4-649205 SCREWS
1-646550A1 GASKET SET	12-655961 CON ROD BOLTS
2-MS35756-8 KEYS	12-654490 CON ROD NUTS
6-AEC630046 PISTON PINS	1-111F417-4S-0162 HOSE
1-111F417-6S-0170 HOSE	1-111F417-4S-0180 HOSE
1-111F417-4S-0410 HOSE	1-111F417-0340 HOSE
1-111F417-4S-0132 HOSE	1-111F417-4S-0374 HOSE

(6) CL-71 IO-520 OHC COMPLETE CYLINDER ASSYS (NICKEL)
CRANKCASE CERTIFIED BY DIVCO INC
CRANKSHAFT CERTIFIED BY RICK ROMANS INC
ROCKER ARMS CERTIFIED BY RICK ROMANS INC
CAMSHAFT CERTIFIED BY RICK ROMANS INC
COUNTERWEIGHTS CERTIFIED BY RICK ROMANS INC
STEEL PARTS MAGNAFLUXED BY RICK ROMANS INC
CONN RODS CERTIFIED BY RICK ROMANS INC
PROP GOV OVERHAULED BY QUALITY ACCESS
OIL COOLER OVERHAULED BY PACIFIC OIL COOLER SERVICE
FUEL SYSTEM OVERHAULED BY MARTIN INDUCTION

I certify that this ENGINE has been inspected
in accordance with a ANNUAL inspection and
was determined to be in an airworthy condition this
date 8/7/2007.

Tach read 2679.0 hrs. Total time 5104 0.0

Signed Charles K. Schubert
AP49586749IA

7/12/2008 TACH 2794.2

REPLACED VACUUM PUMP WITH OVERHAULED
216CW RATCO Pump FOUND AIRWORTHY FOR RETURN TO
SERVICE

Charles K. Schubert
AP49586749

OIL CHANGE

TACH TIME: 2794.2
 DATE: 7/17/08
 VISCOSITY: PHILIPS XIC 20-50W
 QUANTITY: 10.5L
 FILTER CHGD: ☒ YES ☐ NO
 SIGNATURE: Charles K. Taulman
 CERT NO.: AP495366749

9/2/2008 TACH 2811.9 SMOH 132.9
 PERFORMED ANNUAL INSPECTION OF ENGINE. NO OIL CHANGE,
 CLEANED, GAPPED, TESTED PLUGS, LUBED CONTROLS, CHECKED TIMING,
 INSPECTED INTAKE AND EXHAUST SYSTEMS, ALL FLUID LINES, ALL ELECTRICAL
 WIRING AND COMPONENTS, C/W AD 77-13-22 BY INSPECTION

I certify that this REGULANT has been inspected
 in accordance with a ANNUAL inspection and
 was determined to be in an airworthy condition this
 day 9/2/2008
 Tach read 2811.9 hrs. Total time 132.9
 Compression Test
 #1 68 #2 66 #3 68
 #4 74 #5 76 #6 70

Charles K. Taulman
AP495366749 JA

OIL CHANGE

TACH TIME: 2838.1
 DATE: 10-30-08
 VISCOSITY: XIC 20-50W
 QUANTITY: 12.5L
 FILTER CHGD: ☒ YES ☐ NO
 SIGNATURE: Charles K. Taulman
 CERT NO.: AP495366749

OIL CHANGE

TACH TIME: 2918.4
 DATE: 4/20/2009
 VISCOSITY: PHILIPS XIC 20-50W
 QUANTITY: 10.5L
 FILTER CHGD: ☒ YES ☐ NO
 SIGNATURE: Charles K. Taulman
 CERT NO.: AP495366749

OIL CHANGE

TACH TIME: 2967.7
DATE: 6/8/2009
VISCOSITY: PHILLIPS X/C20-50
QUANTITY: 10 qts
FILTER CHGD: ☒ YES ☐ NO
SIGNATURE: [Signature]
CERT NO. AD 495566749

9/1/2009 TACH 3028.7 SMOH 349.7 ✓

PERFORMED ANNUAL INSPECTION OF ENGINE. CHANGED OIL & FILTER
SERVICED WITH X/C 20/50W, CLEANED, GAPPED, TESTED PLUGS, LUBED CONTROLS,
CHECKED TIMING, ALL ELECTRICAL WIRING AND COMPONENTS, REPLACED AIR FILTER
ELEMENT, CLEANED FUEL INJECTORS, C/W AD 77-13-22 BY INSPECTION

I certify that this ENGINE has been inspected
in accordance with a ANNUAL inspection and
was determined to be in an airworthy condition this
day 9/1/2009

Tach read 3028.7 hrs. Total time 349.7

Compression Test

#1- 70 #2- 66 #3- 67
#4- 61 #5- 68 #6- 65

[Signature]
AD 495566749

OIL CHANGE

TACH TIME: 3072.2
DATE: 3/23/2010
VISCOSITY: X/C 20W-50
QUANTITY: 11.95
FILTER CHGD: ☒ YES ☐ NO
SIGNATURE: [Signature]
CERT NO. AP 455326749

N9420S TCM IO-520-BA2 sn 241725-R
11-05-2010 Tach 3100.9 TTIS 3802.46 TSOH 421.9
1. Serviced and inspected engine in accordance with Raytheon Aircraft Company, Bonanza 35 Series Shop Manual Section 7, beginning page 7, 100-hour or ANNUAL inspection.
2. Compressions #1-77/80, #2-72/80, #3-78/80, #4-76/80, #5-78/80, #6-78/80.
3. Drained engine oil, removed and inspected oil filter, no abnormalities noted.
4. Installed new CH48109-1 oil filter and 12 qts Aeroshell 20W-50.
5. Cleaned, gapped, rotated and re-installed spark plugs.
6. Removed, cleaned, inspected and re-installed injectors.
7. Install new Brackett air filter BA-7112.
8. Replace missing front main seal retainer bolt and safety.
9. Complied with AD 77-13-22 engine case cracks by visual inspection next inspection due at ~~2607.1~~ TTIS (3200.9 Tach).
10. Run-up complete, all systems operate normal, no leaks.

I certify this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition. J R Baumann AP 2583021 IA

391986
N9420S ENGINE TCM IO-520-BA2 SN 241725-R 539.3
12-02-2011 Tach 3218.3 TTE 3990.3 TSOH 609.7 Hobbs 140.9

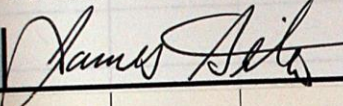
1. Inspect engine in accordance with FAR 43 Appendix D ANNUAL inspection guidelines.
2. Compressions 1/78, 2/75, 3/76, 4/74, 5/79, 6/74/ of 80. Master orifice pressure 48.
3. Drained engine oil, removed and inspected oil filter, no abnormalities noted.
4. Installed new CH48109-1 oil filter and 12 qts Aeroshell 20W-50.
5. Clean, gap, rotate and re-install spark plugs.
6. Removed, cleaned, inspected and re-installed injectors.
7. Install new Brackett air filter BA-7112.
8. Complied with AD 77-13-22 engine case cracks by visual inspection next inspection due at 4090.3 TTIS (3318.3 Tach).
9. Ground run complete, all systems operate normally, no leaks.

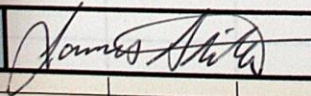
Work performed by Josh Word and Randy Baumann. I certify this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.
J R Baumann AP 2583021 IA

4/28/12 3265.2 3245.2 changed oil & filter. serviced with 11 qts Phillips X/C 20-50. Checked filter for metal - see below entry. ^{TS}
 (TSOH corrected from previous entry. ^{TS})
 (TTIS corrected from previous entry. ^{TS})
 Performed engine run-up for leak checks - none found. James P. Stiles ^{AP} 3412843

Integrity Automotive, LLC Hangar 39 Hefner - Eastley Airport Wagoner, OK (918)-640-7817			Engine Tach: 3265.2 Hobbs: TSOH: 586.2 ENG. TTIS: 3919.86 S/N: 241725-R
PO No: verbal	Customer name: Lanny Smith	Reg. No: N94205	S/N: 241725-R
Work performed at customer's request for determination on cause for small amount of ferrous metal flakes found during oil and filter change at 3265.2 hrs. Sent captured material sample to Aviation Laboratories for particle analysis. Results identified material as carbon steel AMS# 5040 or 7225. Contacted Continental Motors cust. service dept. with lab results for assistance in determining possible internal engine component source. Continental advised most likely cause to be lifter spawling. Disassembled valve train components from rocker arms to lifters - all cylinders. Visually inspected lifter faces and borescoped cam lobe surfaces for condition. Visually inspected rocker toes, rocker shafts, sockets, pushrod ends and valve stem ends. All found in good condition with no adverse surface wear attributable to metal flakes found in filter pleating. Discussed findings with Continental tech. rep. On the advice of Continental Motors, continue to fly 7-10 hours more followed by oil and filter change and filter inspection. Cleaned and re-assembled valve train components using Lubriplate engine assembly lube on lifter faces and all other metal to metal contact points. Torqued rocker shaft bolts to 7 ft. lbs per continental engine manual. Cleaned induction tube segments, filter inlet plenum, rocker covers and pushrod tubes. Cleaned, inspected and re-used induction segment hoses, and hose clamps. Re-assembled all using new SA534610 pushrod tube seals, SA534857-S rocker cover gaskets (silicone) and SA536413 induction flange gaskets. Engaged starter with top spark plugs removed to build oil pressure and prime all valve train components. Re-installed spark lugs and torqued to 27 ft lbs. Engine test ran and test flown - no adverse conditions noted - engine found to be airworthy. Conducted post test flight inspection of engine compartment area for leaks - none found. Engine to be flown normally for approx. 7 - 10 hours from current tach. time, followed with oil and filter change and filter inspection at that time. End of log book entry			
Date: 5/24/12	James P. Stiles AP3412843		

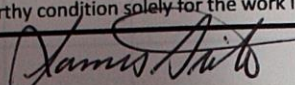
Integrity Automotive, LLC Hangar 39 Hefner - Eastley Airport Wagoner, OK (918)-640-7817			Engine Tach: 3278 Hobbs: S/N: 241725-R
PO No: verbal	Customer name: Lanny Smith	Reg. No: N94205	S/N: 241725-R
Changed oil and filter. Serviced with 12 qts. Phillips X/C 20/50. Examined filter pleating for metal particles. Found few that on a proportional time basis indicated a decreasing particle count from previous service time. Previously serviced at 3265.2 hrs and flown in accordance with Continental factory recommendations of approx. 10 hrs. before this service time at tach 3278 hrs. End of entry			
Date: 6/10/2012	James P. Stiles AP3412843		

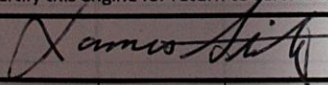
DATE	TOTAL TIME IN SERVICE	TIME SINCE OVERHAUL	RECORDING METER TIME	SIGNATURE & CERTIFICATION
Integrity Airotive, LLC Hanger 39 Hefner - Casley Airport Wagoner, OK (918)-640-7817				Engine Tach: 3289 Hobbs:
PO No: verbal	Customer name: Lanny Smith		Reg. No: N9420S	S/N:
Removed existing alternator and replaced with Aerotech overhauled alternator P/N 1100715, S/N A111188. Gear and coupling assembly P/N 646655 installed in accordance with TCM SB11-3 by Quality Aircraft Accessories. Re-installed wiring connections and secured. Alternator installed using new supplied flange gasket. See 8130-3 release forms attached to Engine Logbook this page.				
End of entry				
Date: 10/07/2012			James P. Stiles AP3412843	

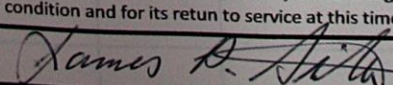
Integrity Airotive, LLC Hanger 54 Hefner - Casley Airport Wagoner, OK (918)-640-7817				Engine Tach: 3311.8 Hobbs: SMOH: 632.8 ENG. TTIS: 4013.36
PO No: verbal	Customer name: Lanny Smith		Reg. No: N9420S	S/N: 241725-R
Removed, cleaned, gapped and rotated spark plugs. Checked hot compressions as follows: #1 - 78, #2 - 77, #3 - 74, #4 - 78, #5 - 79, #6 - 74. Changed oil and filter serviced with Phillips X/C 20W-50. Inspected filter - no metal indicated. Borescope inspected all cylinders - no corrosion or abnormalities noted. Replaced inlet air filter with new Brackett P/N BA-7112 element. Checked and corrected engine timing from 17 BTC to 22 BTC per Continental specifications. Synchronized R & L mags at 22 BTC. Inspected and cleaned fuel servo valve finger strainer and re-safetied. Separated and secured two fuel pressure hoses with Adell clamps. Separated high tension leads with anti-chaff and secured, where required. Inspected all fluid carrying lines and electrical wiring. Degreased engine and engine compartment. Checked engine mount condition. Inspected and tested R & L mag grounding leads. Performed engine run-up and checked for leaks - none found. I certify that this engine has been inspected in accordance with a 100 hr. inspection and was found to be in an airworthy condition on this date.				
Date: 01/01/13			James P. Stiles AP3412843	

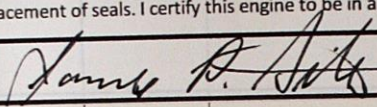
1/1/13 Tach. 3311.8 Hobbs N/A ACTT 6549.8 Engine
 TT 4013.36 TSMO 632.8 Performed Annual/100 hr
 inspection in accordance with Continental Service Manual. I
 certify that this engine has been inspected in accordance with an
 100 hr/annual inspection and found to be in airworthy condition.

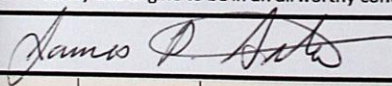

 Jerry A. Davis A&P 3460146 IA

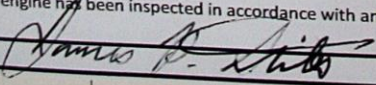
Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine
			Tach: 3346.3
			Hobbs:
			TSOH: 667.3
			ENG. TTIS: 4047.86
PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S	S/N: 241725-R
Drained oil, removed filter and inspected for metal particles - none found. Replaced filter with new Champion oil filter P/N CH48109-1 and safety wired filter. Serviced engine with 11 qts. Phillips XC 20/50 aviation oil. Solvent washed engine and engine compartment. Visually inspected engine and engine compartment for overall condition and security of components - found ok. Inspected customer's installation of STC'd BG341 surplus NOS spark plugs. Verified .014" gap, installed torque of 27 ft/lbs and lead "B"-nut installation. See STC number SE72WE attached to log book. Test ran engine and inspected for leaks and proper engine ground and run up operations - found ok. I certify this engine to be in an airworthy condition solely for the work identified herein and for its return to service this date.			
Date: 5/30/13			James P. Stiles AP3412843

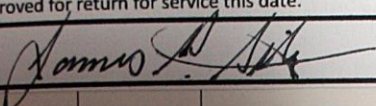
Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine
			Tach: 3388.6
			Hobbs:
			TSOH: 709.6
			ENG. TTIS: 4090.16
PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S	S/N: 241725-R
Removed and replaced inop / intermittent No. 3 CHT and No. 5 EGT probes with Insight OEM replacement probes. Re-connected T-couple connections and sheathed with existing high-temp. sheathing. Secured connections and ground ran engine to confirm GEM cockpit installed readouts. I certify this engine for return to service this date.			
Date: 7/27/13			James P. Stiles AP/IA 3412843

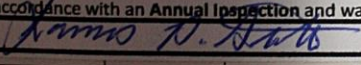
Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine
			Tach: 3388.6
			Hobbs:
			TSOH: 709.6
			ENG. TTIS: 4090.16
PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S	S/N: 241725-R
Removed and replaced vacuum pump drive shaft seal on accessory pad with P/N 25102. Replaced dry vacuum pump with O/H 216CW unit from Aircraft Accessories. Re-plumbed intake to existing airframe system. Removed cyl. no. 3 to facilitate removal and re-installation of replacement crankcase through stud. Installed stud P/N AEC6641931 and stud o-rings MS29513-010. Re-installed cylinder and all removed components using all new gaskets and o-ring seals. Solvent washed engine and engine compartment. Test ran engine and checked for leaks - none found. Only the owner may test fly aircraft. Flight test to be conducted at owner's convenience. I certify this engine to be in an airworthy condition and for its return to service at this time.			
Date: 7/27/13			James P. Stiles AP/IA 3412843

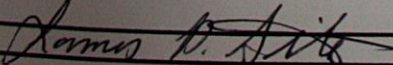
Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine Tach: 3412.5 Hobbs: TSOH: 733.5 ENG. TTIS: 4114.06
PO No: verbal	Customer name: Lanny Smith	Reg. No: N94205	S/N: 241725-R
Drained oil, removed filter, opened and checked for metal particles - none found. Installed new Tempest 48109 filter and serviced with 11 qts. Phillips X/C 20-50 engine oil. Re-safetied filter. Inspected engine visually for crankcase through-bolt fastener security and found all within torque limits and secure. Inspected overall engine visual condition and found no. 5 crank-end pushrod tubes leaking. Advised customer of the need for replacement of seals. I certify this engine to be in an airworthy condition and for its return to service this date.			
Date: 9/18/13	 James P. Stiles AP/IA 3412843		

Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine Tach: 3452.8 Hobbs: SMOH: 773.80 ENG. TTIS: 4154.86
PO No: verbal	Customer name: Lanny Smith	Reg. No: N94205	S/N: 241725-R
Removed and re-installed repaired R&L mufflers with new flame cones by Dawley Aviation. Installed new RH tailpipe provided by Dawley Aviation. See Dawley Aviation work order no. 109552 and attached "Serviceable" tag in aircraft maintenance documents. Inspected firewall mounted tail pipe brackets for condition and security. Adjusted tail pipe fit on R&L sides. Cleaned, inspected and re-installed RH heater muff shroud and heater ducting and LH heat shield. Re-installed mufflers and tailpipes using all new hardware. Checked cowl flap operation for freedom of movement without tailpipe contact. Test ran engine and inspected complete exhaust system for security of attachment and general condition. I certify this engine to be in an airworthy condition on this date and for its return for service.			
Date: 1/15/14	 James P. Stiles A&P 3412843 IA		

Integrity Airotive, LLC Hangar 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817			Engine Tach: 3459.5 Hobbs: SMOH: 780.5 ENG. TTIS: 4161.56
PO No: verbal	Customer name: Lanny Smith	Reg. No: N94205	S/N: 241725-R
Removed, cleaned, gapped and rotated spark plugs. Checked cold compressions as follows: #1 - 72, #2 - 73, #3 - 79, #4 - 72, #5 - 75, #6 - 72. Changed oil and filter serviced with Phillips X/C 20W-50. Inspected filter - no metal indicated. Borescope inspected all cylinders - no corrosion or abnormalities noted. Replaced inlet air filter with new Brackett P/N BA-7112 element. Inspected and cleaned fuel servo valve finger strainer and re-safetied. Secured fuel pressure hose to spider valve with bracket and Adell clamp. Inspected all fluid carrying lines and electrical wiring. Inspected fuel servo valve linkages for security and condition. Degreased engine and engine compartment. Checked engine mount condition. Inspected and tested R & L mag grounding leads. Checked mag to engine timing at 22 BTDC. Performed engine run-up and checked for leaks - none found. I certify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition on this date.			
Date: 2/9/14	 James P. Stiles A&P 3412843 IA		

IN SERVICE	SINCE OVERHAUL	TIME
Integrity Airotive, LLC Hanger 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817		
		Engine Tach: 3485.4 Hobbs: SMOH: 806.4 ENG. TTIS: 4187.46
PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S S/N: 241725-R
Removed and cleaned cylinder no. 5 upper and lower spark plugs and fuel injection nozzle and re-installed. Inspected mag to engine ignition timing and adjusted to 22 deg. BTDC. Troubleshot erratic no. 5 EGT. Tightened EGT wire connection and confirmed normal, steady no. 5 EGT reading. Ground run checked mag drop and engine smoothness - found normal. This engine is considered to be in airworthy condition and is approved for return for service this date.		
Date: 10/22/14	James P. Stiles A&P 3412843 IA 	

Integrity Airotive, LLC Hanger 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817		Engine Tach: 3495.5 Hobbs: 442.2 ENG. TTIS: 4197.56
PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S S/N: 241725-R
Checked cold compressions as follows: #1 - 62, #2 - 73, #3 - 56, #4 - 66, #5 - 72, #6 - 62. Changed oil and filter serviced with Phillips X/C 20W-50. Inspected filter - no metal indicated. Borescope inspected all cylinders - no corrosion or abnormalities noted. Inspected and cleaned fuel servo valve finger strainer and re-safetied. Inspected all fluid carrying lines and electrical wiring. Inspected fuel servo valve linkages for security and condition. Removed, cleaned, gapped and rotated spark plugs. Inspected and tested R & L mag grounding leads. Re-timed magnetos to engine at 22 deg. BTDC per Continental Motors, Inc. specifications. Replaced inlet air filter element with new Brackett P/N BA-7112 element. Checked applicable AD's for compliance. Solvent washed engine and engine compartment. Performed engine run-up and checked for leaks - none found. I certify that this engine has been inspected in accordance with an Annual Inspection and was found to be in an airworthy condition on this date.		
Date: 3/14/15	James P. Stiles A&P 3412843 IA 	

Integrity Airotive, LLC Hanger 54 Hefner - Easley Airport Wagoner, OK (918)-640-7817		Engine Tach: 3540.2 Hobbs: SMOH: 861.2 ENG. TTIS: 4242.26
PO No: verbal	Customer name: Lanny Smith	Reg. S/N: 241725-R
Opened cowl and performed oil and filter change. Replaced filter with new Tempest AA48109. Opened up for metal check - none noted. Serviced engine with 12 qts Phillips X/C 20W50 aviation engine oil. Solvent washed engine and engine compartment clean of accumulated oil and debris. Removed both mags for 500 inspections. Disassembled mags for component inspections and determined best action required to be replacement outright with O/H's mags. Installed Slick model 6310R mags (S/N's D-08307 and D-08308) overhauled by Kelly Aerospace. Timed mags to engine at 22 deg. BTDC per CMI specifications. Performed engine run-up - mags check good and no oil leaks noted. Inspected developing crankcase crack at no. 4 cylinder upper left through bolt boss where indications were present of a previous weld repair. Referred to CMI Service Bulletin on crankcase crack criteria and determined the .500" long crack to be in the non-critical area and under the 2" fail length specified by CMI. Scribed crack length extremities for additional inspections within 50 hrs from this tach reading of 3540.2 hrs. Next inspection due on or before 3590.2 hrs. or sooner if warranted by continuous monitoring determinations. See attached 8130-3 forms for newly installed mags. This engine is returned for service this date.		
Date: 9/18/15	James P. Stiles A&P 3412843 IA 	

TOTALS—Carry forward to next page

Integrity Airotive, LLC
Hanger 54
Hefner - Easley Airport
Wagoner, OK
(918)-640-7817

Engine

Tach: 3572.3

Hobbs:

TSOH: 893.30

ENG. TTIS: 4274.36

PO No: verbal

Customer name: Lanny Smith

Reg. No: N9420S

S/N: 241725-R

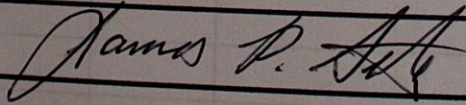
Opened cowling and de-paneled engine nacelle to perform an **Annual Inspection** IAW FAR Subpart E, Section 91.409 (a)(1) following all applicable checks in the manufacturer's 100 Hour / Annual Long Form Inspection Guide P/N 98-32227R, dated 4/1/11.

Performed the following inspections and corrective actions:

- 1) Performed cylinder compression checks as follows: #1 - 70 / #2 - 72 / #3 - 72 / #4 - 71 / #5 - 70 / #6 - 73.
- 2) Inspected, cleaned, re-gapped to .018" - .022" and bomb and resistance tested all spark plugs.
- 3) Changed oil and filter, serviced with 12 qts. Phillips XC 20/50. Checked filter for metal - non found.
- 4) Re-installed all spark plugs with Champion thread lube and torqued to 27 lb/ft.
- 5) Removed old alternator and installed O/H alternator from Q.A.A. See attached 8130 form.
- 6) Tightened loose aft upper crankcase splitline bolts to reduce or stop oil seepage from splitline joint.
- 7) Inspected fuel servo valve screen for cleanliness, re-installed with new gasket P/N 649983 and safetied.
- 8) Checked magneto to engine timing at 22 BTDC.
- 9) Inspected alternate intake air door for security and operation.
- 10) Visually inspected exhaust system for leaks, condition and security of attachment.
- 11) Tightened loose starter drive adapter mounting bolts/nuts to stop oil seepage and working metal surfaces.
- 12) Solvent washed engine free of accumulated oil and grime.
- 13) Inspected previously noted (3540.2 hrs) crankcase crack - no crack progression noticed - continue to monitor IAW CMI SB.
- 14) Performed an engine AD compliance check through this date (see separate AD compliance document in aircraft logs).

I certify this engine has been inspected in accordance with an **Annual Inspection** and was found to be in an airworthy condition on this date.

Date: 4/30/16



James P. Stiles A&P 3412843 IA

Integrity Airmotive, LLC
Hangar 54
Hefner - Easley Airport
Wagoner, OK
(918)-640-7817

Engine
Tach: 3632.5
Hobbs:
TSOH: 953.5
ENG. TTIS: 4334.56
S/N: 241725-R

PO No: verbal	Customer name: Lanny Smith	Reg. No: N9420S	S/N: 241725-R
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Opened cowl and de-paneled engine nacelle to perform an Annual Inspection IAW FAR Subpart E, Section 91.409 (a)(1) following all applicable checks in the manufacturer's 100 Hour / Annual Long Form Inspection Guide P/N 98-32227R, dated 4/1/11.

Performed the following inspections and corrective actions:

- 1) Performed hot cylinder compression checks as follows: #1 - 73 / #2 - 76 / #3 - 73 / #4 - 72 / #5 - 76 / #6 - 68.
 - 2) Inspected, cleaned, re-gapped to .018" - .022" and bomb and resistance tested all spark plugs.
 - 3) Replaced one (1) BG341 spark plug due to excessive resistance (23K ohms) with good serviceable Tempest plug of same heat range.
 - 4) Changed oil and filter, serviced with 12 qts. Phillips XC 20/50. Checked filter for metal - non found.
 - 5) Replaced pushrod tube seals on cyl's no. 3, 4 and 5 with new PMA'd Superior seals.
 - 6) Inspected fuel servo valve screen for cleanliness, re-installed with new gasket P/N 649983 and safetied.
 - 7) Checked magneto to engine timing at 22.3 BTDC.
 - 8) Inspected alternate intake air door for security and operation.
 - 9) Visually inspected exhaust system for leaks, condition and security of attachment.
 - 10) Tightened R exhaust tail pipe fasteners.
 - 11) Solvent washed engine free of accumulated oil and grime.
 - 12) Inspected previously noted (3540.2 hrs) crankcase crack. Crack progression noted as approx 3/32" from previous stop point. Re-scribed new stop point. Continue monitoring IAW CMI SB M90-17.
 - 13) Replaced intake rocker arm assembly on no. 5 cylinder due to excessively worn rocker shaft bushing, with exchanged repaired unit from Aircraft Specialties. See 8130 form attached to entry log book page.
 - 14) Performed an engine AD compliance check through this date (see separate AD compliance document in aircraft logs).
- I certify this engine has been inspected in accordance with an Annual Inspection and was found to be in an airworthy condition on this date.

Date: 7/28/17

James P. Stiles

James P. Stiles A&P 3412843 IA

ALPHA AVIATION

Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

07/07/2021	N9420S	Model	S/N:	Tach 3632.5	Hobbs	TT	TSOH
Aircraft	Beechcraft	V35 Bonanza	8015	3643.4 (1.9)	613.2 (35.5)	6881.4	(10.9) since last
Engine	TCM	IO-520-BA2	241725-R	3643.4		4115.3	1034.8

1. Run-up and ops check to warm for oil change and compression. 10.9
2. Inspect aircraft in accordance with FAR 43 Appendix D, ANNUAL inspection guidelines.
3. Installed new Brackett induction air filter BA-7112.
4. Compression's 79, 20, 78, 75, 78, 75/80
5. Boroscoped cylinder #2, valves look good. no apparent issues. **Suggest run 5-10 hours and re-check.**
6. Check fuel manifold and found uneven flow. Removed fuel manifold for overhaul. Flush fuel strainer and fuel lines.
7. Reinstall fuel manifold PN 631427-2A3, SN F218406RC after overhaul by Aircraft Accessories of OK. WO 44493.
8. Inspected previously noted crankcase crack (3632.5) no progression noted. Continue monitoring IAW CMI SB M90-17.
9. Drain engine oil. Install AA48109 oil filter and safety. Service with 10 qts Phillips X/C 20W 50. and 16 oz CamGuard.
10. Mag timing check OK
11. Mag 500 hr inspections pcw @ 3540.2 TACH Next due 4040.2 tach.
12. Run-up operation normal

Signature: *J R Baumann*

J R Baumann AP 2583021



Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

08/11/2021	N9420S	Model	S/N:	Tach 3632.5	Hobbs	TT	TSOH
Aircraft	Beechcraft	V35 Bonanza	8015	3651.9 (8.5)		6889.9	
Engine	TCM	IO-520-BA2	241725-R	3651.9		4123.8	1043.3

1. Re-check #2 cylinder compression after 8.5 hours run time and found 70/80.
2. Re-install spark plug with new M674 copper Gasket.

Signature: SAB

J R Baumann AP 2583021



Alpha Aviation Mission Outreach Center Inc.
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(479)856-5000

06-04-2024	N9420S	Model	S/N:	Tach 3632.5	Hobbs	TT	TSOH
Aircraft	Beechcraft	V35 Bonanza	8015	3652.1	623.4	6890.1	(10.9) since last
Engine	TCM	IO-520-BA2	241725-R	3652.1	623.4	4124.0	1043.5

1. Run-up and ops check to warm for oil change and compression.
2. Inspect and service engine in accordance with FAR 43 Appendix D, ANNUAL inspection guidelines.
3. Replace Brackett induction air filter assembly BA-7112 with Donaldson Filter PN P10-5304. Replacement due every 500 hrs. Next replacement due by 7390.1 hrs TTAF.
4. Compression's 79, 70, 78, 75, 78, 75/80
5. Inspected previously noted crankcase crack, no progression noted. Continue monitoring IAW CMI SB M90-17.
6. Drain engine oil. Install AA48108-2 oil filter and safety. Service with 10 qts Phillips X/C 20W 50. and 16 oz CamGuard.
7. Replace Mixture control cable assembly with new MC35-944054-7, lot 80235.
8. Mag timing check OK
9. Mag 500 hr inspections pcw @ 3540.2 TACH Next due 4040.2 tach, 7178.2 TTAF.
10. Run-up complete, operation normal, no leaks.

This engine was inspected in accordance with an ANNUAL inspection and found in Airworthy Condition.

Signature: SAB

J R Baumann AP 2583021

5-17-2024 Radio Installation by Davis Field Aviation.



Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

07-01-2024	N9420S	Model	S/N:	Tach	Hobbs	TT	TSOH
Aircraft	Beechcraft	V35 Bonanza	8015	3652.8	624.3	6890.9	
Engine	TCM	IO-520-BA2 (OH 2679.0)	241725-R	3652.8	624.3	4124.8	1044.3
Propeller	McCauley	2A36C23-D-EG/S844B-0	755629	3652.8	624.3	UNKN	973.9

1. Replace vacuum pump drive coupling with new Tempest Shear Shaft PN RA03-002 SN 19523.
2. Run up complete, operation normal. Vacuum set at 4.75 inches.

Signature: SAB

J R Baumann AP 2583021

Complete DYNON installation.



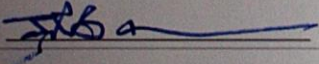
Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

05-01-2025	N9420S	Model	S/N:	TTAF / Air Total	SMOH /TACH	TT	SPOH TACH -70
Aircraft	Beechcraft	V35 Bonanza	8015	6938.4	NA	6938.4	
Engine	TCM	IO-520-BA2	241725-R	6938.4	1091.8	4173.3	
Propeller	McCauley	2A36C23-D-EG/S844B-0	755629	6938.4		UKN	1021.4

1. Inspect and service engine in accordance with FAR 43 Appendix D, ANNUAL inspection guidelines.
2. Compression's 73, 70, 70, 78, 75, 75/80 MO 40
3. Inspected previously noted crankcase crack, no progression noted. Monitor IAW CMI SB M90-17.
4. Drain engine oil. Remove oil filter, open and inspect for particulates. No metal found.
5. Install AA48109-2 oil filter and safety. Service with 10 qts Phillips X/C 20W 50. and 16 oz CamGuard.
6. Mag 500 hr inspections pww @ 3540.2 TACH Next due 4040.2 tach, 7178.2 TTAF. Mag timing check OK
7. Seal gaps in baffle next to crankcase near Oil Cooler and cylinders 1 and 2.
8. Removed and reinstalled Starter Drive Adapter DN A705062 after inspection by Aircraft Accessory of OK.
9. Replace starter Hartzell PN 646238-2B, SN H-Z022618
10. Run-Up and Operational check OK.

Work performed by Jason Baumann IAW appropriate service instructions.

This ENGINE has been inspected IAW an ANNUAL inspection and found to be in airworthy condition.

Signature: 

J R Baumann AP 2583021 IA

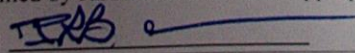


Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

02/20/26	N9420S	Model	S/N:	TTAF= Air Total	TACH = SMOH	Since Last Tach 36.6	TACH -70 = SPOH
Aircraft	BEECH	V35 Bonanza	8015	Hobbs 6984.6	NA		
Engine	TCM	IO-520-BA2	241725-R	6971.8	1128.4	4209.9	
Propeller	McCauley	2A36C23-D-EG/S844B-0	755629	6971.8		UKN	1058.4

1. Clean engine with solvent and look for possible oil leaks.
2. Replace leaking push rod tube seals on cylinder's 4 and 5 with new seals.
3. Replace main alternator mounting gasket with new gasket.

Work performed by Jason Baumann IAW appropriate service instructions.

Signature: 

J R Baumann AP 2583021