

DATE

TACH OR  
RECORDING  
METER  
TIME

DESCRIPTION OF WORK PERFORMED --  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK



**WESTERN**  
*Skyways*  
INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place  
Montrose, CO 81401  
www.westernskyways.com

(800) 575-9929  
(970) 249-0232  
FAX: (970) 249-4155

Engine Make: CONTINENTAL Model: IO-520-BB  
Serial Number: 569868 W/O No: S3169 Date: 02/27/09  
Warranty Number: B9053 Warranty Start Date: 03/09  
Crankshaft Serial No: N08HA100 Cylinder Part Number: TIST71.4ACA

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30039A See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 3211.3 Hrs.

This engine meets requirements of CONTINENTAL SIL98-9A for 1700.0 Hour TBO.

The accessories listed below were new or overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	6310 NEW	08050629	Vac Pump:	N/A	N/A
R/H Mag:	6310 NEW	08063957	Wastegate:	N/A	N/A
Fuel Pump:	646212-16A1	D089106B	Alt/Gen:	N/A	N/A
Inj/Carb:	631415A7	D109104A	Controller:	N/A	N/A
Man Valve:	631427-2A9	D059105C	Controller::	N/A	N/A
Starter:	ES646275-1	I113256	Fuel Limiter::	N/A	N/A
Turbo:	N/A	N/A	Gov Prop:	N/A	N/A
			Hyd Pump:	N/A	N/A
			Hyd Pump:	N/A	N/A

**MAINTENANCE RELEASE**

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Form 200

Signature:   
Repair Station No. WS9R575J

**Q AERO JACKSON Q**  
JACKSON, MISSISSIPPI

N133GM

Date 3-16-09

Tach. 2728.62

Installed this engine with new shockmounts and fuel and oil hoses. Throttle p/n 36-380061-1, mixture p/n 36-380061-5 and propeller p/n 36-380061-3 control cables replaced. Alternator and propeller governor overhauled by Quality Aircraft Accessories inc. Airconditioner compressor hoses and belt p/n 646293-34.00 replaced. Firewall cable grommets replaced as needed. Heater duct replaced. Rt. muffler replaced p/n K701-5. Serviced engine with 12qts Aeroshell straight mineral oil. Groundran engine. No leaks noted. Tags attached in rear of logbook.

Sheldon A Burgess A&P 2159379

*Sheldon A Burgess*



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Q AERO JACKSON Q  
JACKSON, MISSISSIPPI

N133GM Engine Date 6-17-09 Tach. 2789.49 Total Time 3272.17 TSO 60.87

Compression check (1) 68/80 (2) 69/80 (3) 71/80 (4) 72/80 (5) 76/80 (6) 65/80. Inspected oil filter. No metal found. Serviced engine with 12 qts Phillips 20W50 X/C oil. Cleaned and gapped sparkplugs. Fuel strainer cleaned. Magneto timing checked. Adjusted lt. magneto timing. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

*Sheldon A Burgess* Sheldon A Burgess A&P 2159379 IA

Q AERO JACKSON Q  
JACKSON, MISSISSIPPI

N133GM Engine log Date 4-9-09 Tach. 2754.82

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced eng. with 12 qts. Phillips 20W50 X/Coil. Resealed fitting on throttle body and replaced broken spring. Operational check OK. Washed and grd. ran eng. No leaks noted.

*Sheldon A Burgess* Sheldon A Burgess A&P 2159379

Q AERO JACKSON Q  
Jackson, Mississippi

N133GM Engine log Date 09-04-09 Hobbs 2840.34

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qts. Phillips X/C 20W50 oil. Washed and ground ran engine. No leaks noted.

Sheldon A. Burgess A&P 2159379 *Sheldon A Burgess*

Q AERO JACKSON Q  
JACKSON, MISSISSIPPI

N133GM Engine log Date 12-8-2009 Tach. 2887.73

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced eng. with 12 qts. Phillips X/C 20W50 oil. Washed and grd. ran eng. No leaks noted.

Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

AERO JACKSON  
JACKSON, MISSISSIPPI

N133GM Engine Date <sup>3-5-2010</sup> Tach. 2941.57 Total Time 3424.25 TSO 212.95

Compression check (1) 65/80 (2) 68/80 (3) 70/80 (4) 74/80 (5) 74/80 (6) 78/80. Changed oil and filter. Inspected oil filter. No metal found. Serviced engine with 12 qts Phillips X/C 20W50 oil. Cleaned and gapped sparkplugs. Fuel strainer cleaned. Replaced rt. exhaust stack with overhauled stack p/n 35-950005-39. AD2009-19-07 Does not apply. ECI cylinders installed at overhaul. AD2009-24-52 Does not apply. Superior lifters installed at overhaul. Magneto timing checked. Brackett airfilter element replaced. p/n BA7112. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an 100hr. inspection and was determined to be in airworthy condition.

Sheldon A Burgess A&P 2159379 IA *Sheldon A Burgess*

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**Q AERO JACKSON Q**

JACKSON, MISSISSIPPI

N133GM Engine Date 7-15-2010 Tach. 2996.2 Total Time 3478.88 TSO 267.58

Compression check (1) 65/80 (2) 66/80 (3) 64/80 (4) 62/80 (5) 64/80 (6) 62/80. Changed oil and filter. Inspected oil filter. No metal found. Serviced engine with 12 qts Exxon Elite X/C 20W50 oil. Cleaned and gapped sparkplugs. Fuel strainer cleaned. Magneto timing checked. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

Sheldon A Burgess A&P 2159379 IA *Sheldon A Burgess*

VECTAIR USA 11299 Airport Rd., Olive Branch, MS 38654 (662) 893-6775  
CRS #VU8R795K

Logbook Entry Engine: N133GM Tach:3045.6 Date: 10-6-10

1 Changed oil 12qts Phillips 20W50, replaced oil filter p/n CH48109-1.

I certify that the maintenance identified above was inspected and with respect to the work accomplished was determined to be in airworthy condition. Pertinent details are on file at this repair station under WO# 9337

*Matthew Williams*  
for CRS# VU8R795K

→ **AERO JACKSON** →

JACKSON, MISSISSIPPI

N133GM Date 2-15-2011 Tach. 3099.0

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C oil. Washed and grd. ran engine. No leaks noted.

Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

**Q AERO JACKSON Q**

JACKSON, MISSISSIPPI

N133GM Date 5-17-2011 Tach. 3144.56

Replaced bearing p/n 637817 and seal p/n 653171 in A/C drive shaft unit. Replaced compressor drive belt p/n 646293-34.00. Grd run. No leaks noted.

Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

→ **AERO JACKSON** →

JACKSON, MISSISSIPPI

N133GM Date 6-8-11 Tach. 3155.83

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C oil. Washed and grd. ran engine. No leaks noted.

Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

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21 Creative Pl. Montrose, CO 81401 (970) 249-0232 800-575-9929 Fax: (970) 249-4155 www.westernskyways.com

Date: 19 October 2012 Tach time: 610.3 Total time: 3308.2 Aircraft Model: Beech F33A #1 Engine Model: TCM IO-520-BB Engine total time: 3821.60 #1 Prop Model: PHC-C3YF-IRF/F8068 Prop Total time: 0

Reg. Number: N133GM Hobbs Time: 3308.2 Work Order Number: H003023 Serial Number: CE-1170 Serial Number: 569868 Engine TSO: 610.3 Serial Number: QG401B

Removed engine. Modified engine by installation of turbocharger in accordance with Western Skyways, STC SE8677SW and Master Drawing List DL92002. Installed engine in accordance with Western Skyways STC SA8676SW and Master Drawing List DL92001. Installed new pressurized magnetos Slick 6320, left serial number 12041569, right serial number 12041563 and new ignition harness M2279. Installed new RPM sensor part number 420809. Installed new rubber magneto drive bushings. Installed overhauled magneto drive gear and accessory drive pad on left side. Replaced #1 and #4 rocker cover gaskets. Installed D'Shannon cooling air baffles in accordance with STC SA368CH and Installation manual DSP-IM95-2. Ground run, leak and operational checks good. Adjusted fuel system per Western Skyways STC instructions. Complied with Western Skyways Service Bulletin WS080324 during installation by rerouting and securing fuel return line to prevent chafing. The aircraft, airframe, engine, propeller, and/or appliance identified above was repaired and/or inspected in accordance with current Regulations of the Federal Aviation Administration and is hereby returned to service. Pertinent details are on file at this Repair Station on above work order.

Signature: [Handwritten Signature] Repair Station Number WS9R5751

Form 201

October 29, 2012, N133GM Aircraft Total Time: 3316.4 Engine TSO: 618.5

This is a permanent part of the engine records. The following inspections, repairs, or component part replacements were accomplished:

- 1. Inspected this engine in accordance with TCM 100 hour inspection guidelines.
2. Compression check: 1-75/80, 2-76/80, 3-74/80, 4-72/80, 5-78/80, 6-76/80.
3. Timed magnetos to 22 degrees BTDC.
4. Drained oil, removed filter element, no metal detected. Installed new 48109-1 oil filter. Serviced with 12 qts Phillips X/C 20W-50.
5. Installed new BA-7112 Air filter.

The engine listed above has been repaired and inspected in accordance with Federal Aviation Regulations and is approved for return to service with respect to the work performed.

Signature: [Handwritten Signature] Tracy Basom A&P 483746644

I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition, and is approved for return to service.

Signature: [Handwritten Signature] James E. Roberts IA 1819286


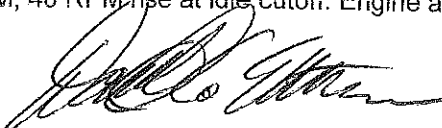

09/29/2014 TCM IO-520-BB S/N: 596868 Tach: 3316.4 TSMOH: 618.5 Performed annual inspection. I certify that this engine was inspected and current AD's checked per revision 2014-14 in accordance to an annual inspection and was determined to be in airworthy condition.


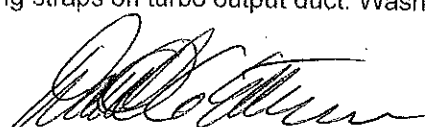
Jeff Powell, A&P 3013211 IA [Handwritten Signature]


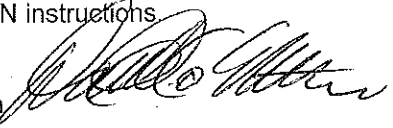
DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record Entry January 28, 2015</b>  <b>Continental IO-520-BB Serial 569868</b>  <b>Tach 705.9</b></p> <p>Removed cylinders due to cracking intake ports or cylinder wall corrosion. Installed six new Superior SA52006-A20P cylinders assy.'s, serials as follows, 1) 526-L14-16559, 2) 526-L14-16324, 3) 526-L14-16321, 4) 526-L14-16312, 5) 526-M14-16557, 6) 526-L14-16561. All kits were supplied with ECI AEC648045 pistons. New Superior SA630046 piston pins from lot 09/15/14 were installed at all positions. Cleaned fuel nozzles, cleaned gapped and inspected spark plugs. Reset magneto to engine timing. Cleaned fuel servo inlet screen. Drained engine oil, serviced sump with 12 quarts of Philips XC 20W50 type M, non-detergent oil. Inspected oil filter, no metal noted. Installed and safetied into position a new CH48109-1 oil filter. Washed engine, ground ran and leak checked, no leaks noted.</p> <p><b>David C Entrekin A&amp;P 3398557</b> </p>


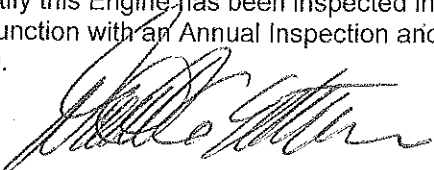

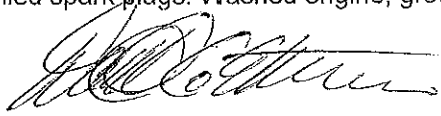

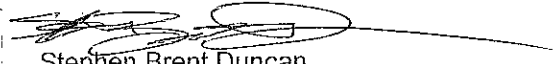
		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record Entry N133GM</b>      <b>November 2, 2015</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 719.9 TSO 728.4</b></p> <p><b>Maintenance Actions</b></p> <ol style="list-style-type: none"> <li>1) Performed 100 hr/annual inspection/maintenance in accordance with Hawker Beechcraft Bonanza Series 100 HR or Annual Inspection Checklist.</li> <li>2) Performed Differential Compression Check. Results as ffgfggdgdsfd follows: 1) 70/80, 2) 70/80, 3) 76/80, 4) 74/80, 5) 76/80, 6) 72.80.</li> <li>3) Drained oil, cut open filter and inspected for metal, none found. Serviced with 11 qts. Phillips X/C 20W50 and 1 ea CH48109-1 filter and added one bottle Camguard.</li> </ol> <p>Work accomplished by: Charles R. Hopper, David C. Entrekin and Richard G. Sheridan.  I certify this Engine has been inspected in accordance an <b>100 HR inspection</b> in conjunction with an Annual Inspection and was determined to be in an airworthy condition.  END.</p> <p>  R.G. Sheridan A&amp;P 3405349 IA</p>
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		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record Entry N133GM</b>      <b>January 25, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 761.4</b></p> <p>Drained engine oil, serviced sump with 11 quarts of Philips XC 20W50 oil, and one pint of ASL Cam Guard. Inspected oil filter, no metal noted. Installed and safetied into position a new CH48109-1 oil filter. Washed engine, ground ran and leak checked, no leaks noted.</p> <p>  Charles R Hopper  AP 3564582</p>
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		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>August 4, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 840.44</b></p> <p>Removed propeller governor pn C290D3K/T23 sn 880668 for overhaul. Reinstalled same governor after overhaul by South Coast Propeller Service, Inc. FAA CRS S6PR302X on work order SR-11102 dated 02 Aug 2016. Adjusted fuel system to limits of ICAV35-200 IAW Contiental SID 97-3F. Final results: unmetereed 10 PSI at 600 RPM, 30 GPH at 29.6" and 2700 RPM, 40 RPM rise at idle cutoff. Engine and propeller operation normal, no leaks noted.</p> <p></p> <p>David C. Entrekin AP 3398557</p> <p style="text-align: center;">SOUTH COAST PROPELLER SERVICE, INC. 5750 DUROSE DRIVE, BESSEMER, AL 35022 205-426-7022 REPAIR STATION #S6PR302X</p> <p>GOVERNOR DISASSEMBLED, CLEANED AND INSPECTED. MAJOR OVERHAULED. MAGNAFLUXED PARTS AS REQUIRED, REASSEMBLED AND TESTED TO MANUFACTURER'S SPECIFICATIONS C/W MC-SB-156, MC-SB-223, MC-SB-249A.</p> <p>WORK ORDER # SR-11102 MODEL # C290D3K/T23 SERIAL # 880668 DATE 08/02/2016</p> <p> STEPHEN ROSE, CHIEF INSPECTOR</p>

		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>August 15, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 854.1</b></p> <p>Drained engine oil. Captured oil sample and stream. Removed oil filter, inspected with no metal noted. Installed new CH48109-1 oil filter and saftied. Serviced sump with 11 quarts of Philips XC 20W50 oil and one pint of Camguard. Cleaned #6 fuel injector. Fabricated and installed retaining straps on turbo output duct. Washed engine and ground ran with no leaks noted.</p> <p></p> <p>David C. Entrekin AP 3398557</p>
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		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>August 19, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 861.4</b></p> <p><b>Maintenance Actions</b></p> <ol style="list-style-type: none"> <li>1) Removed propeller. Desludged crankshaft. Installed new crankshaft seal pn 641250. Reinstalled propeller.</li> <li>2) Dynamically balanced propeller at 2500 RPM to .05 IPS using ACES equipment IAW Hartzell 115N instructions.</li> </ol> <p></p> <p>David C. Entrekin AP 3398557</p>
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		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <hr/> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>December 9, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 719.9 TSO 919.6</b></p> <p><b>Maintenance Actions</b></p> <ol style="list-style-type: none"> <li>1) Performed 100 hr/annual inspection/maintenance in accordance with Hawker Beechcraft Bonanza Series 100 HR or Annual Inspection Checklist.</li> <li>2) Performed Differential Compression Check. Results as follows: 1) 68/80, 2) 70/80, 3) 67/80, 4) 64/80, 5) 69/80, 6) 69/80.</li> <li>3) Drained oil. Removed filter and inspected for metal, none found. Installed new CH48109-1 filter and saftied. Service with 11 qts. Phillips X/C 20W50 and added one bottle Camguard.</li> <li>4) Installed 12 new URHB32E spark plugs.</li> </ol> <p>Work accomplished by: Charles R. Hopper, David C. Entrekin and Richard G. Sheridan.  I certify this Engine has been inspected in accordance an <b>100 HR Inspection</b> in conjunction with an Annual Inspection and was determined to be in an airworthy condition.  END.</p>  David C. Entrekin A&P 3398557 IA
		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <hr/> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>June 10, 2016</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 811.4</b></p> <p>Drained engine oil, serviced sump with 11 quarts of Philips XC 20W50 oil, and one pint of ASL Cam Guard. Inspected oil filter, no metal noted. Installed and safetied into position a new CH48109-1 oil filter. Enlarged hole in #6 cylinder exhaust riser and reinstalled EGT probe. Set left and right magneto to 22 degree BTC. Removed turbo scavenge line cracking valve, cleaned and reinstalled. Removed spark plugs, cleaned, inspected and gapped. Performed compression check: #1)63/80, #2 72/80, #3 67/80, #4 73/80, #5 72/80, #6 72/80. Reinstalled spark plugs. Washed engine, ground ran and leak checked, no leaks noted.</p>  David C. Entrekin AP 3398557
		<p><i>Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358</i> </p> <hr/> <p><b>Engine Maintenance Record</b>      <b>Entry N133GM</b>      <b>July 21, 2017</b>  <b>Continental: IO-520-BB</b>      <b>Serial: 569868</b>      <b>Tach: 957.3</b></p> <p>Drained engine oil and collected oil sample mid stream. Serviced sump with 11 quarts of Philips XC 20W50 oil, and one pint of ASL Cam Guard. Inspected oil filter, no metal noted. Installed and safetied into position a new CH48109-1 oil filter.</p>  Stephen Brent Duncan AP 3735203



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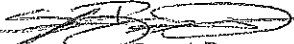
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Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358

Engine Maintenance Record      Entry N133GM      November 22, 2017  
Continental: IO-520-BB      Serial: 569868      Tach: 1004.7

Drained engine oil and collected oil sample mid stream. Serviced sump with 11 quarts of Phillips XC 20W50 oil, and one pint of ASL Cam Guard. Inspected oil filter, no metal noted. installed and safetied into position a new CH48109-1 oil filter.

  
Stephen Brent Duncan  
AP 3735203

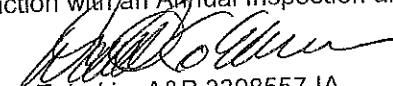
Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358

Engine Maintenance Record      Entry N133GM      January 18, 2018  
Continental: IO-520-BB      Serial: 569868      Tach: 1019.4 TSO: 1004.78

**Maintenance Actions**

- 1) Performed 100 hr/annual inspection/maintenance in accordance with Hawker Beechcraft Bonanza Series 100 HR or Annual Inspection Checklist.
- 2) Performed Differential Compression Check. Results as follows: 1) 60/80, \*2) 20/80 (see item 4 below), 3) 59/80, 4) 76/80, 5) 72/80, 6) 70/80.
- 3) \*Removed #2 cylinder. Reinstalled cylinder after overhaul by John Jewell Aircraft FAA CRS JUJR300L. Work was performed on work order J180081 dated 1-11-2018.
- 4) Installed new BA-7112 Brackett induction air filter.
- 5) Removed filter and inspected for metal, none found. Installed new CH48109-1 filter and saftied.
- 6) Cleaned fuel nozzles and servo valve screen. Reinstalled with new seals and gaskets

I certify this Engine has been inspected in accordance an **100 HR Inspection** in conjunction with an Annual Inspection and was determined to be in an airworthy condition.

  
David C. Entrekin A&P 3398557 IA

