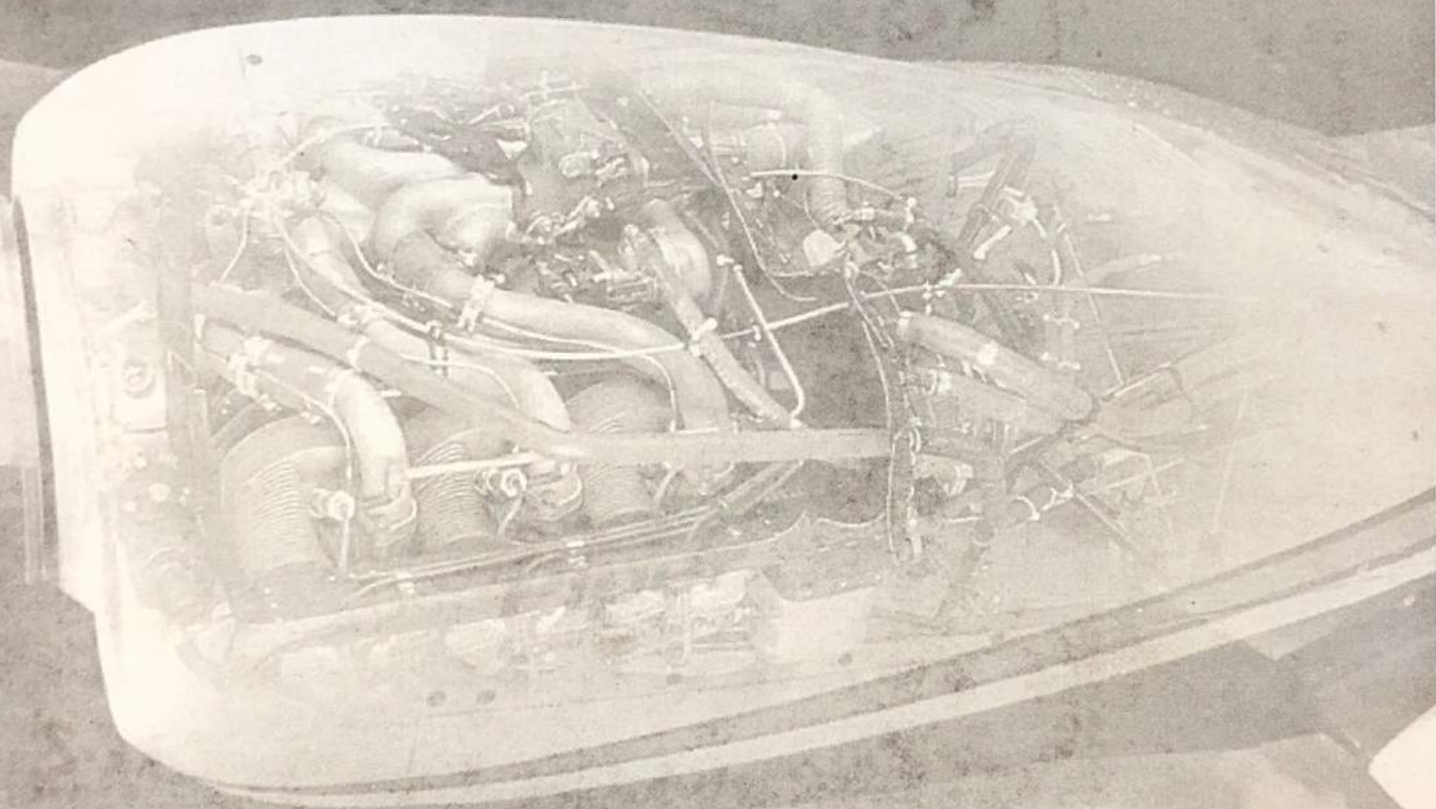


# ENGINE LOG BOOK



## CONTINENTAL MOTORS

## Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

## Engine Returns

All returned engines are to be shipped with this log book Directly to:

**Teledyne Continental Motors**  
**Abbeville Industrial Park**  
**Suite 159**  
**Abbeville, AL 36310**

**USE ONLY FUEL CONFORMING TO ASTM D910**  
**USE OF AUTOMOTIVE GAS IS NOT APPROVED.**

This engine model 10520BB12, Serial No. 820416-R, was rebuilt/zero timed on 12/15/2000 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives. \_\_\_\_\_, Serial Number \_\_\_\_\_

SB	AD	REMARKS	SB	AD	REMARKS
M79-2	79-05-09	REPLACED WITH NEW PART	N/A	91-19-03	REPLACED OIL FILTER
M80-26	81-24-06	N/A BY PART SERIAL NUMBER	M92-6	N/A	ROCKER SHAFT RETENTION IMPROVED
M86-7	86-13-04	REPLACED WITH NEW PART	M92-14	N/A	VISUAL INSPECTION
M87-5	97-26-17	ULTRASONIC INSPECTION OF C/SHAFT	M93-9	93-16-15	PROPER SHAFT & COUPLING INSTALLED
M87-13	87-14-02	REPLACED WITH NEW PART	MSB93-12	93-10-02	N/A SERIAL NUMBER NOT APPLICABLE
M87-24	88-17-03	REPLACED WITH NEW PART	CSB94-1	94-06-09	REPLACED CAPACITOR AS APPLICABLE
M88-4	88-03-06	REPLACED WITH NEW PART	MSB95-6	N/A	FUEL SYSTEMS
M90-21	N/A	ULTRASONIC INSPECTION OF BARREL	MSB96-10	N/A	CRANKSHAFT ULTRASONIC INSPECTION
M91-6	N/A	ULTRASONIC INSPECTION OF BARREL	MSB94-8A	N/A	MAGNETO TO ENGINE TIMING
M91-7	N/A	ULTRASONIC INSPECTION OF BARREL	CSB9710A	97-21-02	PISTON PIN PLUG WEAR

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

Sheet 1 of 2  
Continued on back cover

TELEDYNE CONTINENTAL MOTORS  
PRODUCTION CERTIFICATE NO. 508





# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul		
	Hrs.	Min.	Hrs.	Min.	
					LOG BOOK ENTRY FOR N3068W ENGINE
					MARCH 15, 2001 TACH 00.0 TACH SET TO 00.0 WITH <del>FRM</del> <sup>FREM</sup> ENGINE INSTALLATION.
					THIS ENGINE INSTALLED ON N3068W.
					INSTALLATION WAS ACCOMPLISHED WITH ALL NEW MOUNTS AND HARDWARE.
					FUEL PUMP REMOVED FROM OLD ENGINE, OVERHAULED BY WESTERN SKYWAYS AND INSTALLED ON THIS ENGINE DO TO THE TURBO NORMALIZING SYSTEM INSTALLED.
					SCAVANGE PUMP REMOVED AND FACTORY NEW IDLER GEAR INSTALLED FOR TURBO SCAVANGE.
					TURBOCHARGER, WASTEGATE, CONTROLER, AND RELIEF VALVE OVERHAULED BY MAIN TURBO.
					ALL TURBODHARGER STAINLESS STEEL HARDWARE REPLACED WITH NEW.
					PROP GOVERNOR OVERHAULED BY A-C PROPELLER.
					ALL NEW HOSES INSTALLED, HOSES SUPLIED BY HERBER AIRCRAFT. NEW INSTRUMENT AIR PUMP AND FILTERS INSTALLED.
					ENGINE SERVICED WITH AEROSHELL 100 MINERAL OIL, TEST RUN, IDLE MIXTURE AND SPEED ADJUSTED. TAKE OFF PERAMITERS WILL BE CHECKED ON FIRST TAKE OFF ROLL SO NOT TO OVERHEAT ENGINE ON GROUND.
					I CERTIFY THIS ENGINE HAS BEEN INSPECTED INACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE AIRWORTHY. <i>Richard Patshkowski</i> RICHARD PATSHKOWSKI A&P/IA 1909051
					LOG BOOK ENTRY FOR N3088W ENGINE
					APRIL 16, 2001 TACH 26.1
					OIL AND FILTER CHANGED, FILTER INSPETED, SERVICED WITH AEROSHELL 100W <i>Richard Patshkowski</i> RICHARD PATSHKOWSKI A&P 1909051
6-11-01					TACH TIME 48hrs oil and oil filter changed. AEROSHELL 100W (50weight) 12 quarts. CHAMPION OIL FILTER <i>W.C. Throcky #1625708</i>



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
8-9-2001	74	2			OIL & FILTER CHANGED, FILTER INSPECTED. SERVICED WITH AEROSHELL 100W Richard Patshkowski A&P/IA #1909051
LOG BOOK ENTRY FOR N3068W ENGINE					
MARCH 19, 2002 TACH AND ENGINE TOTAL TIME <del>126.2</del> 126.2 SFREM					
ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH FAR 43 APPENDIX D.					
COMPRESSION OVER 80 PSI 1-72 2-73 3-72 4-74 5-74 6-70 AD 96-12-07 EFF DATE JULY 18 1996 (BENDIX IMPULSE COUPLINGS) NEXT DUE ENGINE TT 500.0					
OIL AND FILTER CHANGED, FILTER INSPECTED, SERVICED WITH AEROSHELL 15/50W INDUCTION AIR FILTER REPLACED. (BRACKETT)					
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE AIRWORTHY. <i>Richard Patshkowski</i> RICHARD PATSHKOWSKI A&P/IA 1909051 AIRCRAFT MAINTENANCE SPECIALTIES					
6-21-2002	154	2			OIL & FILTER CHANGED FILTER INSPECTED. SERVICED WITH AEROSHELL 100W Richard Patshkowski A&P/IA #1909051
9-1-02	184	0			OIL and OIL FILTER CHANGED FILTER INSPECTED SERVICED WITH AEROSHELL 100W W. C. Trasher #1625708



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward					LOG BOOK ENTRY FOR N3068W ENGINE
					OCTOBER 17, 2002 TACH 198.4
					<b>OIL AND FILTER CHANGED</b> , FILTER INSPECTED. SERVICED WITH AEROSHELL 80W.
					FUEL INJECTORS UTRASONICALLY CLEANED.
					SPRK PLUGS CLEANED, GAPPED AND TESTED.
					COMPRESSION OVER 80 PSI 1-72 2-75 3-70 4-74 5-73 6-72
					PROP DEICE NOZZLE REPLACED.
					<i>Richard Patshkowski</i> RICHARD PATSHKOWSKI A&P/IA 1909051 AIRCRAFT MAINTENANCE SPECIALTIES

**N3068W Engine Log Book Entry.**

**March 14, 2003 Tach and ETT: 220.3**

**Annual Inspection** completed this time and date in accordance with FAR 43, Appendix D.

**AD 96-12-07** (Impulse) Effective date July 18, 1996. **Due at 500 ETT.**

Compression, over 80 psi: #1=78, #2=77, #3=78, #4=78, #5=78, #6=78. Drained oil and changed filter. Serviced with Aeroshell W80 oil. Ground run and leak check good, approved for return to service.

*I certify that this aircraft has been inspected in accordance with an Annual inspection and determined to be in airworthy condition.*

THIS AIRCRAFT OR COMPONENT HAS BEEN INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS. DETAILS ON FILE AT THIS AGENCY UNDER WORK ORDER NUMBER 300974. DATE: 03/14/2003.

INSPECTOR: *J. Wolfe*

FAA APPROVED REPAIR STATION GGCR254E.



7-22-03	244.0	OIL and OIL FILTER CHANGED. NEW FILTER INSPECTED - NO LEAK. SERVICED WITH AEROSHELL 100W (12 QTS), CHAMPION OIL FILTER W.C. Mascher #1625708
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ENGINE MODEL: IO520BB-12  
ENGINE SN: 820418-R  
REG. NO: 3068W  
WORK ORDER: 518-03-2004



**Spokane Airways, Inc.**

3817 S. Davison Blvd.  
Spokane, WA 99224

Repair Station No. GGCR254E

DATE: 3/24/2004

TTA: 3,627.90

TTE: 267.90

TRE: 267.90

TACH: 287.90

TS FROM ~~TS FROM~~

**Engine Entries**

Annual Inspection completed this time and date in accordance with FAR 43, Appendix D... Installed fuel divider drain hose out cowling RH lower area.... Compression, over 80 psi: #1= 78, #2= 78, #3= 78, #4= 78, #5= 78, #6= 77 .... Drained oil and changed filter. Serviced with 11 qts AS100W plus oil .... Ground run and leak check good, approved for return to service....

This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 518-03-2004 Dated 3/24/2004.

DATE: 3/24/2004

SIGNED:

Jeff Wolfe

Certified Repair Station No. GGCR254E

*J. Wolfe*

WORK ORDER: 518-03-2004

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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					
8-13-04	295.0				OIL and OIL FILTER (CH48109-1) CHANGED SERVICED WITH 12 QTS AEROSHELL 100W W.C. Thrasher #1625708
2-10-05	320.0				OIL and OIL FILTER (CH48109-1) CHANGED SERVICED WITH 12 QTS AEROSHELL 100W W.C. Thrasher #1625708

ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
1815-03-2005



**Spokane Airways, Inc.**

Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219  
Phone: (509) 747-2017

DATE: 4/11/2005  
A/C TSN: 3693.4  
ENG TT: 333.4  
TSMOH: 333.4  
TACH: 333.4

TSFR

**Engine Entries**

Annual Inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1= 64, #2= 68, #3= 66, #4= 68, #5= 67, #6= 67. Master orifice reading = 38/80 psi.... Drained oil and changed filter. Serviced with Aeroshell W-100 oil.... Removed and replaced lower (6) spark plugs with new.... Ground run and leak check good, approved for return to service.

This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 1815-03-2005 Dated 4/18/2005.

DATE: 4/11/2005

SIGNED:

Jeff Wolfe  
Certified Repair Station No. GGCR254E

Work Order: 1815-03-2005

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10-7-05	353.0				OIL and OIL FILTER (CH48109-1) CHANGED SERVICED WITH 12 QTS AEROSHELL 15-50 W.C. Thrasher #1625708
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ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
2850-04-2006



**Spokane Airways, Inc.**

Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 4/28/2006  
A/C TSN: 3726.71  
ENG TT: 366.71  
TSMOH: 366.71  
TACH: 366.71

TSFR

**Engine Entries**

Annual Inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=78, #2=77, #3=78, #4=76, #5=77, #6=78.... Drained oil hot, cut filter, no metal noted, installed new filter P/N Ch48109 and serviced with 12 qts aeroshell 100w.... Ground run and leak check good, approved for return to service.

This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 2850-04-2006 Dated 4/28/2006.

DATE: 4/28/2006

SIGNED:

Tim Haight, IA: 564250355

Work Order: 2850-04-2006

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ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
3687-04-2007

**Spokane Airways, Inc.**

Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 5/14/2007  
A/C TSN: 3756.9  
ENG TT: 396.9  
TSMOH: 396.9  
TACH: 396.9

**Engine Entries**

Annual Inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=66, #2=66, #3=64, #4=70, #5=68, #6=64. M.O.= 46 (.040 orifice).... Drained oil and changed filter. Serviced with AS100 plus oil.... Cleaned and re-sealed fuel injectors. Leak check good.... Ground run and leak check good. This engine has been inspected IAW annual inspection and is approved for return to service.

DATE: 5/14/2007



SIGNED:

Peter W Brown  
Certified Repair Station No. GGCR254E

Work Order: 3687-04-2007

Printed by EBis 3 (datcomedia.com)



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					
8-12-07	4260				OIL (AEROSHELL 100W) and FILTER (CH 48109-1) CHANGED. LEAK CHECK - NEGATIVE FOR LEAKS. TEAR DOWN OF FILTER - NEGATIVE FOR METAL FRAGMENTS. W.C. Thacker #1625708
4-4-08					BRACKET AIR FILTER (BA-7112) changed to new filter. After normal engine run-up, the Bracket filter remained properly aligned and positioned W.C. Thacker #1625708
4-11-08	440				OIL (AEROSHELL 80W) and FILTER (CH 48109-1) CHANGED. LEAK CHECK - NEGATIVE W.C. Thacker #1625708
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>ENGINE MODEL: IO520BB-12 ENGINE S/N: 820416-R REG. NO: 3068W WORK ORDER: 4630-04-2008</p> </div> <div style="width: 30%; text-align: center;">  <p><b>Spokane Airways, Inc.</b> Repair Station No. GGCR254E PO Box 19009 Spokane, Wa 99219 United States Phone: (509) 747-2017</p> </div> <div style="width: 30%; text-align: right;"> <p>DATE: 5/5/2008 A/C TSN: 3806.36 ENG TT: 446.36 TSMOH: 446.36 TACH: 446.36</p> </div> </div> <p><b>Engine Entries</b> Annual Inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=77, #2=78, #3=79, #4=77, #5=78, #6=78.... Ground run and leak check good, approved for return to service.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>DATE: 5/5/2008</div> <div>SIGNED: <i>Peter W Brown</i></div> <div>Work Order: 4630-04-2008</div> </div> <p style="text-align: center; font-size: small;">Peter W Brown Certified Repair Station No. GGCR254E Printed by EBis 3 (datcomedia.com)</p>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>ENGINE MODEL: IO520BB-12 ENGINE S/N: 820416-R REG. NO: 3068W WORK ORDER: 4760-06-2008</p> </div> <div style="width: 30%; text-align: center;">  <p><b>Spokane Airways, Inc.</b> Repair Station No. GGCR254E PO Box 19009 Spokane, Wa 99219 United States Phone: (509) 747-2017</p> </div> <div style="width: 30%; text-align: right;"> <p>DATE: 7/11/2008 A/C TSN: 3822 ENG TT: 462 TSMOH: 462 TACH: 462</p> </div> </div> <p><b>Engine Entries</b> Removed and sent all engine compartment hoses to Herber Aviation for recertification and/or replacement as necessary. Reinstalled all removed hoses and torqued fittings. Leak check performed, no leaks noted at this time. Engine ops check normal.... Tightened turbo mounting bracket bolts.... Installed new o-ring on forward waste-gate actuator fitting.... Inspected, and tested fuel system. Found metered press. to be low. Flushed out all engine fuel lines and FCU and adjusted pressure IAW Beechcraft maintenance manual and TCM SID97-3E. Ops check normal. This engine is approved for return to service.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>DATE: 7/11/2008</div> <div>SIGNED: <i>Peter W Brown</i></div> <div>Work Order: 4760-06-2008</div> </div> <p style="text-align: center; font-size: small;">Peter W Brown Certified Repair Station No. GGCR254E Printed by EBis 3 (datcomedia.com)</p>					
8-11-08	465				OIL (AEROSHELL 15-50) and FILTER (CH 48109-1) CHANGED. LEAK CHECK - NEGATIVE. FILTER NEGATIVE FOR METAL W.C. Thacker #1625708
4-22-09	479				OIL (AEROSHELL 100W) and FILTER (CH 48109-1) CHANGED. LEAK CHECK - NEGATIVE. W.C. Thacker #1625708



ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
5515-04-2009



**Spokane Airways, Inc.**  
Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 5/5/2009  
A/C TSN: 3839.74  
ENG TT: 479.74  
TSMOH: 479.74  
TACH: 479.74

Date			
Brought Forward	<p><b>Engine Entries</b></p> <p>Annual inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=72, #2=66, #3=74, #4=70, #5=68, #6=64. Cold. M.O. -.040 Failing=46/80... Ground run and leak check good .This engine has been inspected IAW Annual insp.,and is approved for return to service.</p> <p>This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 5515-04-2009 Dated 5/5/2009.</p>		
	DATE: 5/5/2009	SIGNED: <i>Peter W Brown</i>	Work Order: 5515-04-2009
		Peter W Brown Certified Repair Station No. GGCR254E	Printed by EBis 3 (datcomedia.com)

	HRS	
9-28-09	506	OIL (AEROSHELL 15-50) and FILTER (CH48109-1) CHANGED. LEAK CHECK NEGATIVE. FILTER NEGATIVE FOR METAL. W.C. Thrasher #1625708

ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
6442-05-2010



**Spokane Airways, Inc.**  
Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 6/23/2010  
A/C TSN: 3885.32  
ENG TT: 525.32  
TSMOH: 525.32  
TACH: 525.32

<p><b>Engine Entries</b></p> <p>Annual inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=68, #2=61, #3=70, #4=65, #5=70, #6=52. .040 M.O. fail = 45/80... Drained oil and removed filter. Inspected filter for contamination, none found. Installed new filter and serviced with 12 qts Aeroshell 80W straight mineral oil.... Replaced cylinders 2,4, and 6 with overhauled units as follows: (#2) sn 95623, (#4) 48159-27 (#6) 48159-01. Break-in procedures complied with.... Replaced both magnetos with S6RN-1225 RH SN F02HA343R, LH F02IA152R. Removed sn's 1190003FR, 120006FR... Replaced seal on waste gate oil fitting, fitting on scavenge pump drive and oil seal on scavenge pump accessory drive shaft. Run up, no leaks noted.... Ground run and leak check good .This engine has been inspected IAW ANNUAL insp.,and is approved for return to service.</p> <p>This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 6442-05-2010 Dated 6/23/2010.</p>			
	DATE: 6/23/2010	SIGNED: <i>Peter W Brown</i>	Work Order: 6442-05-2010
		Peter W Brown Certified Repair Station No. GGCR254E	Printed by EBis 3 (datcomedia.com)

	HRS	
11-21-10	550	OIL (AEROSHELL 15-50) AND FILTER (CH48109-1) CHANGED W.C. Thrasher #1625708

ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820416-R  
REG. NO: 3068W  
WORK ORDER:  
7433-07-2011



**Spokane Airways, Inc.**  
Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 7/7/2011  
A/C TSN: 3916.52  
ENG TT: 556.52  
TSMOH: 556.52  
TACH: 556.52

<p><b>Engine Entries</b></p> <p>Annual inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=65, #2=75, #3=70, #4=73, #5=72, #6=72. .040 M.O. fail = 47/80... Drained oil and removed filter. Inspected filter for contamination, none found. Installed new filter and serviced with 12 qts. Aeroshell 100 Plus oil.... Ground run and leak check good .This engine has been inspected IAW ANNUAL insp.,and is approved for return to service.</p> <p>This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and approved for return to service. Details are on file with this agency under Work Order Number 7433-07-2011 Dated 7/7/2011.</p>			
	DATE: 7/7/2011	SIGNED: <i>Peter W Brown</i>	Work Order: 7433-07-2011
		Peter W Brown Certified Repair Station No. GGCR254E	Printed by EBis 3 (datcomedia.com)

6-14-12	TACH TIME 582 hrs	OIL and OIL FILTER CHANGED (25hrs since the last change) 12 quart AERO-SHELL 100W and a new CH48109-1 Filter used. No leaks, no metal fragments were present in the oil-filter. W.C. Thrasher #1625708
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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forw:

ENGINE MODEL:  
IO520BB-12  
ENGINE S/N: 820418-R  
REG. NO: 3068W  
WORK ORDER:  
8297-07-2012



**Spokane Airways, Inc.**  
Repair Station No. GGCR254E  
PO Box 19009  
Spokane, Wa 99219 United States  
Phone: (509) 747-2017

DATE: 7/23/2012  
A/C TSN: 3950.97  
ENG TT: 590.97  
TSMOH: 590.97  
TACH: 590.97

**Engine Entries**

Annual inspection completed this time and date in accordance with FAR 43, Appendix D.... Compression, over 80 psi: #1=72, #2=72, #3=69, #4=74, #5=70, #6=75.  
.040 M.O. fail = 47/80... Replaced 3 spark plugs with new.... Ground run and leak check good. This engine has been inspected IAW ANNUAL insp, and is approved for return to service.

This aircraft or component has been inspected and/or tested in accordance with current Federal Aviation Regulations and found airworthy for the work performed and approved for return to service. Details are on file with this agency under Work Order Number 8297-07-2012 Dated 7/23/2012.

DATE: 7/23/2012

SIGNED:

*Peter W Brown*

Work Order: 8297-07-2012

Peter W Brown  
Certified Repair Station No. GGCR254E

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10-6-12

TACH TIME 607mo

OIL and OIL FILTER changed (25 hrs since last change) 12 quarts AEROSHELL W100 and a new CH 48109-1 Filter used. No oil leaks noticed after run-up.

*W. C. Thacker #1625708*

08-01-13 Total time: 630.77, Tack time: 630.77 An Annual inspection was completed on this date in accordance with FAR 43 app. (d). All compressions taken at 80psi 1.74, 2.76, 3.73, 4.76, 5.75, 6.77. Checked timing, changed oil with Aeroshell W-100, filter with CH48109-1, opened and found no anomalies. Checked all hoses fittings and controls, Cleaned fuel injectors All AD's complied with at this time see compliance report with records. Run-up ops good no leaks noted at this time. I find this engine in airworthy condition and return to service.

William W. McLain

*William W. McLain*

AP3529633IA

4-30-14

TACH TIME 655 mo A/C TSN 4015.0

11 quarts of AEROSHELL W100 drained after 25 hrs engine time. New CH 48109 CHAMPION OIL FILTER replaced the old filter and refilled. 11 quarts of new AEROSHELL W100 placed in the crankcase. No crankcase oil filter leaks present after engine run-up. NO metal fragments present in the old filter.

*William C. Thacker  
1625708*

08-21-14 Total time: 664.74, Tack time: 664.74 An Annual inspection was completed on this date in accordance with FAR 43 app. (d). All compressions taken at 80psi 1.77, 2.77, 3.76, 4.76, 5.76, 6.77. Checked timing, cleaned and gaped sparkplugs, oil previously changed, replaced air filter with BA7112. Checked all hoses fittings and controls. All AD's complied with at this time see compliance report with records. Run-up ops good no leaks noted at this time. I find this engine in airworthy condition and return to service. ---

William W. McLain

*William W. McLain*

AP3529633IA



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward →

2-9-15	TACH TIME 668.82	A/c TSN 4028.82	OIL and OIL FILTER CHANGED. 11 quarts of AEROSHELL W 100 drained. New CH 48109 FILTER replaced the old filter and safety wired. 11 quarts of new AEROSHELL W100 placed into the crankcase. No crankcase or oil filter oil leaks after engine run-up. No metal fragments in the old oil filter. William C Throckmorton #1625708.
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ENGINE MODEL: Western Aviation  
 ENGINE S/N:  
 REG. NO: N3068W  
 WORK ORDER:  
 18756-08-2015

Repair Station No. GG6R560N  
 PO Box 11835  
 Spokane, WA 99212  
 Phone: 509 534-7371


DATE: 9/1/2015  
 A/C TSN: 4030.48  
 ENG TT: 679.48  
 TACH: 679.48

**Engine Entries**

Inspected Engine using guidance from FAR Part 43 appendix D and the Beechcraft Bonanza Maintenance Manual Checklist. Differential compression check results: #1 75/80, #2 77/80, #3 74/80, #4 74/80, #5 74/80, #6 76/80. Replaced oil filter with CH48110-1. Oil filter element inspection was normal. No leaks found on Muffler Heat pressure test. Cleaned gapped, inspected and rotated spark plugs. Cleaned gascolator screen and servo inlet screen. Log entry dated 6/23/10 misidentifies the magnetos installed on this engine. The magnetos installed on this engine are part # S6RN-1225, serial #s 8049081 right and 8049157 left. These had been previously overhauled by Savage magneto Service and were rotated with another set of owner supplied magnetos. Run up and Leak checked good. See AD record for compliance.

**Maintenance Release**

The aircraft and/or component(s) on N3068W was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 18756-08-2015, Dated 9/1/2015. I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

DATE: 9/1/2015  
 SIGNED:   
 Jeff Rosen  
 Certified Repair Station No. GG6R560N

Work Order: 18756-08-2015  
 Printed by EBis 3 (datcomedia.com)

1 of 1

4-22-16	TACH TIME 691.62	A/c TSN 4051.62	OIL and OIL FILTER CHANGED. 11 quarts of AEROSHELL 100W drained then replaced with new 100W oil. New CH 48109 FILTER replaced the old filter dated 9-1-15 and safety wired. No crankcase or oil filter leaks after run-up. No metal fragments in old oil filter. William C Throckmorton #1625708.
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ENGINE MODEL: IC-520  
 bB (12)  
 ENGINE S/N: 820416-R  
 REG NO: 3068W  
 WORK ORDER: 28174



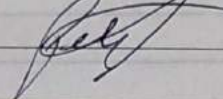
**Aircraft Solutions, LLC.**  
 6095 E Rutter Ave. Suite 2  
 Spokane, WA 99212  
 Phone: (509) 938-8883

DATE: 10/10/2016  
 A/C TSN: 4066.59  
 ENG TT: 706.59  
 TSMOH: 706.59  
 TACH: 706.59

**Engine Entries**

Annual inspection completed this time and date in accordance with FAR 43, Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Compression test, over 80 psi: 1=70, 2=76, 3=73, 4=73, 5=70, 6=74, MG=44. Drained oil and changed filter. Inspected old filter for contamination. Serviced with 11QT's Aeroshell 100W Plus sent oil sample to Black stone for testing. R&R all valve cover gaskets installed new gaskets p/n 855528. Ground run and leak check good, approved for return to service.

I certify that Aircraft 3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft 3068W and/or component(s) identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this Agency under Work Order 28174 dated 10/10/2016.


DATE: 10/10/2016  
 SIGNED:   
 Pete Reed, IA: 3018502




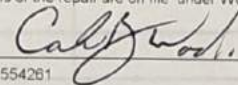
Work Order: 28174  
 Printed by EBis 3 (datcomedia.com)

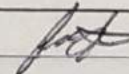


Date	Total Time		Time Since Last Overhaul		<h2>Engine Service and Maintenance Record</h2> <p>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins</p>
	Hrs.	Min.	Hrs.	Min.	

<b>Brc</b>	ENGINE MODEL: IO-520 bB (12) ENGINE S/N: 820416-R REG. NO: 3068W WORK ORDER: 28512	  	<b>Aircraft Solutions, LLC.</b> 8095 E Rutter Ave Suite 2 Spokane, WA 99212 Phone (509) 838-8883	DATE: 10/20/2017 A/C TSN: 4085 86 ENG TT: 725 66 TSMOH: 725 66 TACH: 725 66
<b>Engine Entries</b>				
Annual inspection completed this time and date in accordance with FAR 43, Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Compression test, over 80 psi: 1=74, 2=72, 3=72, 4=74, 5=72, 6=72. MO=44. Drained oil and changed filter. Inspected old filter for contamination. Serviced with 11Qts Aeroshell 100W plus oil, sent oil sample to black stone labs. Cut out bad portion of oil pan heater cord and repaired with three D-436-37 environmental splices and heat shrink. Ground run and leak check good, approved for return to service.				
I certify that Aircraft 3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft 3068W and/or component(s) identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this Agency under Work Order 28512 dated 10/20/2017.				
DATE: 10/20/2017		SIGNED: 		Work Order: 28512
		Pete Reed, IA: 3018502		Printed by EBis 3 (datcomedia.com)

	ENGINE MODEL: IO-520 bB (12) ENGINE S/N: 820418-R REG. NO: 3068W WORK ORDER: 28823	  	<b>Aircraft Solutions dba Northwest Flight</b> 6095 E Rutter Ave Suite 2 Spokane, WA 99212 Phone (509) 838-8883	DATE: 10/19/2018 A/C TSN: 4100 86 ENG TT: 740 86 TSMOH: 740 86 TACH: 740 86
<b>Engine Entries</b>				
Annual inspection completed this time and date in accordance with FAR 43, Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Compression test, over 80 psi: 1=86, 2=74, 3=72, 4=72, 5=74, 6=72. MO=46. Inspected lines and adjusted fuel flow up as needed. Ground run and leak check good, approved for return to service.				
I certify that Aircraft 3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft 3068W and/or component(s) identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this Agency under Work Order 28823 dated 10/19/2018.				
DATE: 10/19/2018		SIGNED: 		Work Order: 28823
		Pete Reed, IA: 3018502		Printed by EBis 3 (datcomedia.com)

	ENGINE MODEL: IO-520 bB (12) ENGINE S/N: 820416-R REG. NO: 3068W WORK ORDER: 28974	  	<b>Aircraft Solutions dba Northwest Flight</b> 6095 E Rutter Ave Suite 2 Spokane, WA 99212 Phone (509) 838-8883	DATE: 4/9/2019 A/C TSN: 4107 ENG TT: 747 TSMOH: 747 TACH: 747
<b>Engine Entries</b>				
Removed 2 ECI Cylinders, and one overhauled cylinder from 2, 4 & 6, positions. Installed three new TCM Gold Standard cylinders P/N: 658552A4. S/N: AC17LA743 on #2, S/N: AC17LA750 on #4, and S/N: AC17LB378 on #6. Visually inspected cam lobes, and found okay. Drained oil. Changed oil filter. Serviced engine with 11 Qts Phillips 66 X/C 20W50 Type M oil. Ground run, Leak- checked good. Installed new RHB32E plug in #6 cylinder. Re-bonded Reiff preheat elements using high temp RTV.				
The aircraft and/or component(s) on 3068W was repaired and inspected in accordance with current FAR rules of the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 28974. Dated 4/9/2019.				
DATE: 4/9/2019		SIGNED: 		Work Order: 28974
		Cale Ward, A&P: 3554261		Printed by EBis 3 (datcomedia.com)

owner changed cdi @ 773.20  
 See Airframe log dated 8-21-19  
 Serviced with Phillips 20W50 XC  10/20/2017

	ENGINE MODEL: IO-520 bB (12) ENGINE S/N: 820416-R REG. NO: 3068W WORK ORDER: 29131	  	<b>Aircraft Solutions dba Northwest Flight</b> 6095 E Rutter Ave Suite 2 Spokane, WA 99212 Phone (509) 838-8883	DATE: 10/11/2019 A/C TSN: 4146 4 ENG TT: 786 4 TSMOH: 786 4 TACH: 786 4
<b>Engine Entries</b>				
Annual inspection completed this time and date in accordance with FAR 43, Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Removed and replaced exhaust tail pipe v band clamp with new clamp p/n S1921-1 next due 1186 40 on aircraft tack. Compression test, over 80 psi: 1=62, 2=74, 3=62, 4=72, 5=64, 6=74. MO=44. Drained oil for oil sample serviced engine with two QTS oil Phillips 20W50 X/C. Ground run and leak check good, approved for return to service.				
I certify that Aircraft 3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft 3068W and/or component(s) identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this Agency under Work Order 29131 dated 10/11/2019.				
DATE: 10/11/2019		SIGNED: 		Work Order: 29131
		Pete Reed, IA: 3018502		Printed by EBis 3 (datcomedia.com)



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought

ENGINE MODEL: IO-520  
bB (12)  
ENGINE S/N: 820416-R  
REG NO: 3068W  
WORK ORDER: 29390

**Aircraft Solutions dba Northwest Flight Service**  
6095 E Rutter Ave. Suite 2  
Spokane, WA 99212  
Phone (509) 838-8883

DATE: 11/12/2020  
A/C TSN: 4164 09  
ENG TT: 804 09  
TSMOH: 804 09  
TACH: 804 09

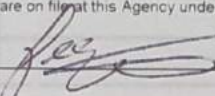
**Engine Entries**

Annual inspection completed this time and date in accordance with FAR 43, Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Complied with ICA for Turbo Normalized system. Complied with ICA for engine pre heater/ ops check. Compression test, over 80 psi: 1=86, 2=76, 3=72, 4=78, 5=70, 6=74 MO=44. Drained oil and changed filter. Inspected old filter for contamination. Serviced with 10 qts Phillips 20W50 X/C sample sent to Black stone Labs. Re torqued tail pipe clamp and safety wired. Installed all new spark plugs p/n URHB32E. Installed new Reiff Hot Band cylinder heater on base of #6 Cylinder. Ground run and leak check good, approved for return to service.

I certify that Aircraft 3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft 3068W and/or component(s) identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this Agency under Work Order 29390 dated 11/12/2020.

DATE: 11/12/2020

SIGNED:



Work Order: 29390

Pete Reed, IA: 3018502

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This engine model 10520BB12, Serial No. 820416-R, was rebuilt/zero timed on 12/15/2000 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS	SB	AD	REMARKS
CSB98-1	N/A	INTAKE AND EXHAUST VALVE INSPECTION			
N/A	80-01-04	CYLINDER REWORK-AIRMOTIVE ENGINEERING			
MSB00-5C	2000-23-21	CRANKSHAFT MATERIAL INSPECTION			
CSB99-3A	99-09-17	CRANKSHAFT ULTRASONIC INSPECTION			

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

Sheet 2 of 2  
Continued from front cover

TELEDYNE CONTINENTAL MOTORS  
PRODUCTION CERTIFICATE NO. 508



### SERVICEABLE

Mfg. Name airesearch Part No. 470908-9011  
 Part Name wastegate Serial WJ-I0134  
 The aircraft component identified above was completely overhauled in accordance with the manufacturer's specifications and with the current Regulations of the Federal Aviation Administration and is approved for return to service.  
 Pertinent details of the repair are on file at this repair station under Work Order No. 23824  
 Date 1-30-01 Signed Dan Mann  
 (Signature of Authorized Individual)

MAIN TURBO SYSTEMS, INC.  
234 Cotta Ct. • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960



**SERVICEABLE**

Mfr. airesearch  
 Name \_\_\_\_\_  
 Part \_\_\_\_\_  
 Name press. relief valve

The aircraft component identified above was completely  
 the manufacturer's specifications and with the current  
 Aviation Administration and is approved for return to

Pertinent details of the repair are on file at this repair station under

Work Order No. 23822

Date 1-30-01 Signed Dan

(Signature)  
**MAIN TURBO SYSTEMS, INC.**

234 Cotta Ct. • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K

SB	AD	REMARKS
CSB98-1	N/A	INTAKE AND EXHAUST VALVE
N/A	80-01-04	CYLINDER REWORK-AIRMOTI
MSB00-5C	2000-23-21	CRANKSHAFT MATERIAL INS
CSB99-3A	99-09-17	CRANKSHAFT ULTRASONIC I

Records reflecting this rebuilding are on file at this repair station under

Sheet 2 of 2  
 Continued from front cover

**Western Skyways, Inc.**

1865 Launa Dr.  
 Montrose, CO 81401  
 CRS NO. WS9R575J

2856 Aviators Way  
 Grand Junction, CO 81506  
 CRS NO. WS9D575J

W/O NO. 14015 MODEL T/C/M

PART NO. 646210-10 S/N NO. I179318BR

PART NAME Fuel Pump TANK TSO Ø

REMARKS OVERHAULED + FA/W MANUA

X30593A - CALIBRATED AND BENCH

TESTED GOOD

Date 2-21-01 Signature Harold Lee Jensen

FORM 101

SERVICEABLE

**SERVICEABLE**

Mfr. airesearch Part No. 406610-9029

Name turbocharger Serial WJ-I0101

The aircraft component identified above was completely overhauled in accordance with  
 the manufacturer's specifications and with the current Regulations of the Federal  
 Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 23821

Date 1-30-01 Signed Dan

(Signature of Authorized Individual)

**MAIN TURBO SYSTEMS, INC.**

234 Cotta Ct. • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960

**SERVICEABLE**

Mfr. airesearch Part No. 470688-9005

Name controller Serial WJ-I0106

The aircraft component identified above was completely overhauled in accordance with  
 the manufacturer's specifications and with the current Regulations of the Federal  
 Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 23823

Date 1-30-01 Signed Dan Mann

(Signature of Authorized Individual)

**MAIN TURBO SYSTEMS, INC.**

234 Cotta Ct. • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960

**SERVICEABLE**

Mfr. airesearch Part No. 470908-9011

Name wastegate Serial WJ-I0134

The aircraft component identified above was completely overhauled in accordance with  
 the manufacturer's specifications and with the current Regulations of the Federal  
 Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 23824

Date 1-30-01 Signed Dan Mann

(Signature of Authorized Individual)

**MAIN TURBO SYSTEMS, INC.**

234 Cotta Ct. • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought

ENGINE MODEL IO-520  
S/N: 820416-R  
REG NO: N3068W  
WORK ORDER 29390

**Aircraft Solutions dba Northwest Flight Service**  
6095 E Rutter Ave Suite 2  
Pookane WA 99712  
Phone: 509-338-8683

DATE: 11/12/2020  
A/C TSN: 4164 09  
ENG TT: 604 09  
TSMOH: 804 09  
TACH: 804 09

**Engine Entries**

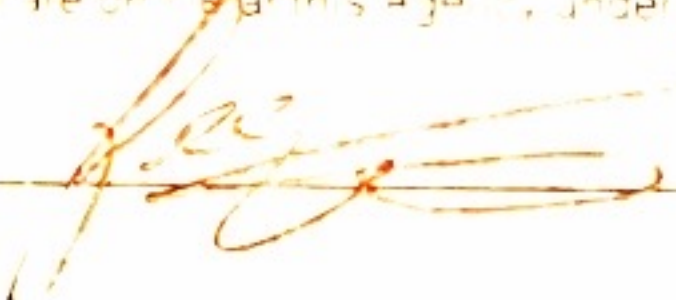
Annual inspection completed this time and date in accordance with FAR 43 Appendix D. Checked aircraft records for any applicable AD notes that are due at this time. Complied with ICA for Turbocharged system. Complied with ICA for engine pre-heater ops check. Compression test: over 80 psi. Cyls: 1=78, 2=72, 3=73, 4=73, 5=70, 6=74. MO=44. Drained oil and changed filter. Inspected old filter for contamination. Serviced with 10 qts Phillips 20W50 XC sample sent to Blackstone Labs. Retorqued tail pipe clamp and safety wired. Installed all new spark plugs pin URHB32E. Installed new Reiff Hot Band cylinder heater on base of #6 Cylinder. Ground run and leak check good. approved for return to service.

I certify that Aircraft N3068W has been inspected in accordance with an Annual inspection and determined to be in airworthy condition. Aircraft N3068W and all components identified above were repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file for this Aircraft under Work Order 29390 dated 11/12/2020.

DATE: 11/12/2020

SIGNED

Pete Reed A 7016502



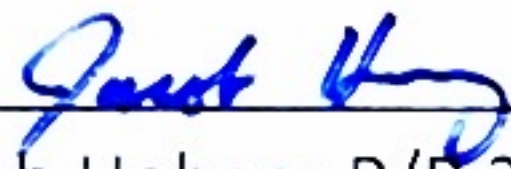
Work Order 29390

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Reg: N3068W Make: Cont. IO-520BB12 S/N: 820416-R

Date: 4-21-2021 Tach: 845.2

Take oil sample & send off for analysis. Change oil & filter. Fill with 10.5 qts. Aeroshell W100 & 16 oz. of Camguard.

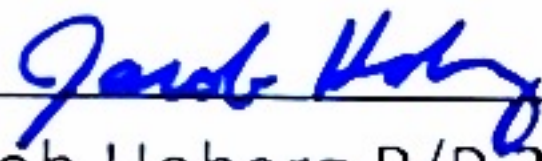


Jacob Hoberg P/P 3424188

Reg: N3068W Make: Cont. IO-520BB12 S/N: 820416-R

Date: 9-29-2021 Tach: 871.3

Take oil sample & send off for analysis. Change oil & filter. Fill with 10.5 qts. Aeroshell W100 & 16 oz. of Camguard.



Jacob Hoberg P/P 3424188

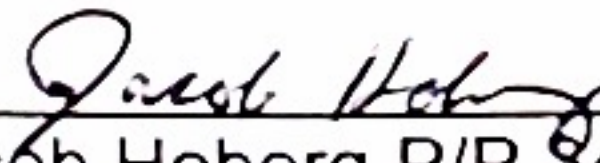
**TOM'S AIRCRAFT ENTERPRISES**

4475 Highland Springs Road  
Lakeport, CA. 95453  
(707) 263-9330

Reg: N3068W Make: Cont. IO-520-BB12 S/N: 820416-R

Date: 02-15-2022 TT: 891.3 Tach: 0.0

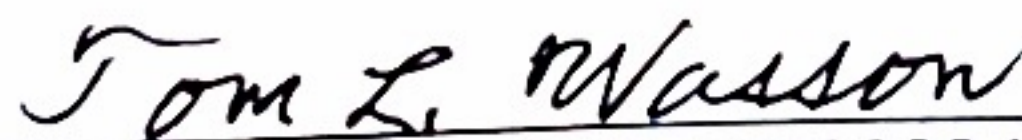
Remove Horizon Instruments digital Tach, (current reading 891.3), & install new J.P. Instruments EDM-930, (current times re-calculated & listed above).



Jacob Hoberg P/P 3424188

**\*\*\*Annual Inspection\*\*\***

Verified & inspected items listed above. Run comp check cyl #1-52/80, #2-67/80, #3-66/80, #4-70/80, #5-62/80, #6-68/80. Borescope cylinder #1 & determined cylinder to be acceptable in accordance with Teledyne Continental Service Bulletin SB03-3. Check magneto timing. Cleaned, gapped, & tested spark plugs. I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.



Tom L. Wasson A&P 1378002 IA

Reg: N3068W Make: Cont. IO-520BB12 S/N: 820416-R

Date: 3-02-2022 Tach: 7.6

Take oil sample & send off for analysis. Change oil & filter. Fill with 10.5 qts. Aeroshell W100 & 16 oz. of Camguard.



Jacob Hoberg P/P 3424188



# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward	→			

Reg: N3068W Make: Cont. IO-520BB12 S/N: 820416-R

Date: 05-09-2022 Tach: 34.9

Take oil sample & send off for analysis. Change oil & filter. Fill with 10.5 qts. Aeroshell W100 & 16 oz. of Camguard.

*Jacob Hoberg*  
 \_\_\_\_\_  
 Jacob Hoberg P/P 3424188

**TORNADO ALLEY TURBO INC.**

300 AIRPORT RD  
 ADA, OK 74820

N3068W BONANZA A36 SN: E-490  
 CONT IO-520-BB SN: 820416-R

**ENGINE LOG BOOK ENTRY**

8 SEPT 2022

ACFT TACH: 64.6

ACFT TT: 4315.9

TORNADO ALLEY TURBO, INC.



REMOVED TURBO NORMALIZING SYSTEM IAW STC SA8676SW AND SE8677SW  
 INSTALLED USED SERVICABLE WHIRLWIND III" TURBO NORMALIZER SYSTEM. INSTALLATION IS COVERED AND APPROVED UNDER ENGINE TECHNOLOGY INC. STC SA5223NM AND STC SE5222NM. THE INSTALLATION WAS COMPLETED USING TORNADO ALLEY TURBO INSTALLATION INSTRUCTIONS. INSTRUCTIONS ETI-B-01 REV. Q 8/17/2022 MASTER DRAWING LIST TAT-B-MDL REV. V 02-01-2022 AND HAWKER BEECHCRAFT MAINTENANCE MANUALS REFER TO TORNADO ALLEY TURBO AIRPLANE FLIGHT MANUAL SUPPLEMENT-520 FOR OPERATION AND CONTINUED AIRWORTHINESS.  
 INSTALLED 1 SERVICABLE CYLINDER ASSEMBLY CYLINDER # 1 FROM CONTINENTAL P/N 658810A4  
 SENT ROCKER ARMS TO AIRCRAFT SPECIALTY SERVICES INC. FOR MAGNETIC PARTICAL AND NEW BUSHINGS QTY2 P/N 274177  
 REWORK OF ROCKER ARMS COMPLETED BY AIRCRAFT SPECIALTIES SERVICES  
 INSTALLED NEW MAP CONTROLLER P/N 470688-0010 S/N H-ZGN00153  
 INSTALLED USED SERVICABLE PRV VALVE 470930-9004 S/N OJ000331  
 INSTALLED USED SERVICABLE WASTEGATE 470908-9011 S/N 0165006-0105  
 INSTALLED USED SERVICABLE FUEL PUMP 35-655007 M/O 2732  
 INSTALLED USED SERVICABLE FUEL CONTROLLER FT-B8.5/1-442 S/N B129603AR  
 INSTALLED USED SERVICABLE EXHAUST MANIFOLDS, WASTEGATE MANIFOLD, AND TAIL PIPE.  
 INSTALLED ALL NEW EXHAUST PORT BASE GASKETS, FLANGE NUTS, TURBOCHARGER GASKET, EXHAUST 4 BOLT FLANGE GASKETS, WASTEGATE GASKETS, WASTEGATE MOUNTING BOLTS, WASHERS, AND NUTS.  
 INSTALLED USED SERVICABLE TAIL PIPE  
 NEW V-BAND CLAMP, NEXT REPLACEMENT DUE IN 4YRS/400 HOURS.  
 INSTALLED GAMIJECTORS IAW STC SE09289SC AND STC SA5222NM KIT NO. GT15B S/N 30865  
 SERVICED W/ 12 QTS PHILLIPS 20W/50 TYPE M MINERAL OIL.  
 TURBO SYSTEM ADJUSTED AND CHECKED TO 17K FT. FUEL SYSTEM ADJUSTED PER TCM SID 97-3G AND TATI ICA  
 RUN-UP, OP'S, TEST FLIGHT AND LEAK CHECK OK. APPROVED FOR RETURN TO SERVICE.  
 ENGINE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS, ADVISORY CIRCULARS, AND APPROPRIATE MANUFACTURER'S MANUALS

*Karl Sobolik*  
 \_\_\_\_\_  
 KARL SOBOLIK A&P 003675139 IA

Reg. No: N3068W  
 Aircraft S/N: E-490  
 Engine Model: IO520BB-12  
 Engine S/N: 820416-R

Date: 10/29/2022  
 ACTT: 4347.0  
 Tach: 95.7  
 Engine TT: 987.0  
 TSMOH: 987.0

Drained oil and removed filter. Obtained oil sample for Blackstone Labs analysis. Inspected filter for contamination, none found. Installed new Tempest AA48109 oil filter. Serviced with 10-quarts Aeroshell W100 and 1-pint CamGuard oil additive. Ground run and leak check okay.

*Jacob Hoberg*  
 \_\_\_\_\_  
 Jacob Hoberg, #3424188



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					

Reg. No: N3068W  
Aircraft S/N: E-490  
Engine Model: IO520BB-12  
Engine S/N: 820416-R

Date: 01/02/2023  
ACTT: 4383.2  
Tach: 131.9  
Engine TT: 1023.2  
TSMOH: 1023.2

Drained oil and removed filter. Obtained oil sample for Blackstone Labs analysis. Inspected filter for contamination, none found. Installed new Tempest AA48109 oil filter. Serviced with 10-quarts Aeroshell W100 and 1-pint CamGuard oil additive. Ground run and leak check okay.

*Jacob Hoberg*  
Jacob Hoberg, #3424188

Make: TCM  
Model: IO-520-BB  
S/N: 820416-R  
REG. NO. 3068W

DATE: 3-27-23  
TACH: 147.3  
TTE:1038.6  
TSMOH:1038.6

ENGINE ENTRIES:  
PERFORMED ANNUAL INSPECTION AND SERVICE OF THIS ENGINE IN ACCORDANCE WITH TCM SERVICE MANUALS. CHECK/REVIEW/COMPLY WITH ALL APPLICABLE AIRWORTHINESS DIRECTIVES. SERVICED SPARK PLUGS. CHECKED MAGNETO TO ENGINE TIMING. INSTALL NEW ROCKER COVER GASKET ON CYLINDER #5 COMPRESSIONS: 1# 2# 3# 4# 5# 6#

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

JOHN BETHEA IA/AP 3726138  
SIGNED: *[Signature]*






# CONTINENTAL MOTORS

A Teledyne Technologies Company

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