

# ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N72124

Engine Manufacturer T. C. M.

Model IO-520-BB

Serial No. 578059

Date installed on aircraft 10-30-91

Time Between Overhauls (TBO) 1700 Hours

If used on multi-engine aircraft:

Right       Left  
 Front       Rear

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

This is to certify that the engine described hereafter has been overhauled to manufacturer's new part limits by Mattituck Airbase Inc.

Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. All applicable Airworthiness Directives and mandatory Manufacturer's Service Bulletins are in compliance. A description of these repairs is on file at this agency under:

JOB NO. 16761 DATED 10-30-91  
 MFG. T. C. M. MODEL IO 520 BB.  
 Serial No. 578059 Time in svc. 1817.19



**MATTITUCK AIRBASE INC.**  
 F.A.A. REPAIR STATION # QX2R125L  
 AIRWAY DRIVE, MATTITUCK, L.I., N.Y. 11952  
*Markon P. Russell*  
 Authorized Signature

The Accessories Listed Below Were Overhauled and Supplied With This Engine

ENGINE: <u>IO-520-BB</u>	SN. <u>578059</u>	DATE <u>10-30-91</u>
P/N	S/N	
L. MAG <u>6310</u>	<u>91080086</u>	PROPELLER <u>3432040661</u> P/N <u>640/67</u>
R. MAG <u>6310</u>	<u>91080110</u>	PROP. GOV. <u>C290D361T23</u> S/N <u>8404456</u>
ALT./GEN. <u>646843R</u>	<u>G-19110-OR</u>	TACH. GEN. <u>DNA</u>
INJ./CARB. <u>6341545</u>	<u>J07810RA</u>	TURBO CHARGER
FUEL PUMP <u>635154-16A1</u>	<u>117419RA</u>	WASTE GATE
STARTER <u>646375</u>	<u>R-4429</u>	CONTROLLER
VAC. PUMP <u>212CW</u>	<u>02AG00047</u>	CONTROLLER
HYD. PUMP	<u>DNA</u>	REL. VALVE <u>DNA</u>

**MATTITUCK AIRBASE INC.**

F.A.A. Repair Sta. No. QX2R125L  
 W.O. No. 16761



Authorized Signature

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	1817.19	OSMOT	1817.19	TOTALS brought forward from previous page
10-30-91				This Engine Reinstalled in Beech F-33A SINCE-1047. Ground Run, Leak checked and adjusted as necessary. Aircraft test flown. Ref wo # 16761
				MATTITUCK AIRBASE INC CRS QXR1252 Mahlon P. Russell
10-30-91	OSMOT	1817.19		I certify this Engine has been Inspected in accordance with a ANNUAL INSPECTION & FOUND AIRWORTHY.
				MATTITUCK AIRBASE INC CRS QXR1252 Mahlon P. Russell

MAKE T.G.M.	MODEL 20-520-8B	SERIAL NO./N. NO. 578059
TACH READING 1859.0	DATE 2-19-92	REPLACED EGT PROBE PN 86245. REPLACED CH-T PROBE PN AN5546-1 REPLACED ALTERNATOR WITH OVH UNIT PN 646843 S/N L319109.0R PERFORMED 25HR INSPECTION DRAINING IN-USE OIL CHECK FILTER FOR CONTAMINATION NEVER NOTED. SERVICED ENGINE WITH 12 QTS 20-50 PHILLIPS MINERAL OIL WITH NEW OIL FILTER, CYC LEAK DOWN U P/H CYLS 76%. OPERATIONAL CHECK SATISFACTORILY.
<p>MATTITUCK AIRBASE INC. F.A.A. Repair Station QX2R125L W.O. No. 16853</p> <p></p> <p>Matthew P. Russell</p>		

Mattituck

Authorized Signature

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				<b>TOTALS</b> brought forward from previous page

MAKE TCM MODEL 70-520-BB SERIAL NO./N. NO. 578059

TACH READING 1899.57 DATE 6-16-92 DRAIN ENGINE OIL AND  
check Filter for contamination NONE NOTED.  
SERVICED ENGINE with 12 QTS 20-50 PHILLIPS  
mineral oil with new oil Filter. LEAK CHECK  
AND GROUND RUN SATISFACTORY.

MATTITUCK AIRBASE INC.  
F.A.A. Repair Station QX2R125L  
W.O. No. 16994



Raymond E. Russell

Authorized Signature

DECEMBER 16, 1992. TOTAL ENGINE TIME & TACH.  
READING. 1968.60. ENGINE TIME S.M.O.H. 0151.41.  
CHECKED COMPRESSION IN ALL CYLS. CHANGED  
POSITION OF ALL PLUGS. CHECKED MAG. TIMING,  
CHANGED OIL & FILTER. WASHED DOWN ENGINE  
AND CHECKED ENGINE PERFORMANCE.

Raymond E. Russell ADP 1952996

ACCESSORY  
CLASS I AND II  
CRS NO. TB3R861L



WE SERVICE THE UNIVERSE  
SOUTHWEST COOLER SERVICE, INC.  
3939 PLATINUM WAY  
DALLAS, TEXAS 75237

**SERVICEABLE PART**

Part Nomenclature Oil Cooler Manufacturer Harrison

Model # N/A Part # 635996 SN 1774-4983

Overhaul  Repair  Test/Calibrate  Modify  Exchange

Customer Linden Air Service Corp. Work Order # 10725

The component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the work accomplished are on file at this agency.

Authorized Signature Raymond E. Russell

Date 5-3-94

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECOMMENDED METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
JUNE 15, 1995				JUNE 15, 1995 TOTAL ENG. TIME 2 TACH. 2089.44.
				ENG. TIME 5. M.O.H. 0272.25. CHECKED COMPRESSION IN ALL CYL'S. CHANGED OIL & FILTER.
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
				Raymond E. Kress F.A. 1952996
7-18-95				2090.6 Installed new starter motor. Replaced oil cool sockets, washed engine down up checked for leaks ops ok
				Mark Z. Brown AP#11580920

10/1/96

KRESS AVIATION INC.  
40 SKY MANOR, RD.  
PITTSSTOWN, NJ. 08867DATE 10/01/96 A/C REG: N72124 MODEL: F33A A/C S/N: CE-1047  
TACH: 2136.47 TOTAL TIME: 2136.47ENG MODEL: IO-520-BB S/N: 578059 TSN: 2136.47 TSOH: 319.28  
PROP MODEL: 3A32C406 S/N: 840167 TSOH: 319.28

1. CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
2. COMPRESSION TEST RESULTS *Shawn W. Kress*  
1. 72/80, 2. 75/80, 3. 75/80, 4. 75/80, 5. 75/80, 6. 65/80.
3. DRAINED OIL & REFILLED WITH X QTS. OF 40W MINERAL. INSPECTED & CLEANED OIL SCREEN. NEXT OIL CHANGE \*\*\*DUE AT 216 HRS. (TACH).
4. AD 95-21-15 ENGINES OPERATED ON WRONG FUEL, AD IS N/A BY "N" NUMBER.
5. AD 96-12-22 CESSNA OIL FILTER ADAPTER, AD IS N/A ENGINE NOT EQUIPPED WITH SUBJECT ADAPTER.

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DATE	TOTAL TIME IN SERVICE
10/1/96	<i>gmb</i>
6. CY CY TO SIC	
10/23/97	
DATE	
ENG	
1. IC W A	
2. C I.	
3. D R	
4. R S	

10/22/98

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
10/1/96	DATE 9/XX/96	A/C REG: N72124	MODEL: F33A	A/C S/N: CE-1047
	<i>gmb 10/1/96</i>	TACH: 2136.47	TOTAL TIME: 2136.47	
	6. CYLINDERS 3 AND 4 REMOVED, MADE SERVICEABLE AND REINSTALLED. CYLINDERS MADE SERVICEABLE BY "HELLER AERO SERVICE" THIS DATE DUE TO LOW COMPRESSION. (SEE SERVICEABLE TAGS ATTACHED THIS PAGE)			
	SIGNATURE <i>Frederick W Berry</i> CERT. # 167428916 IA			
10/23/97	KRESS AVIATION INC. 40 SKY MANOR, RD. PITTSTOWN, NJ. 08867			
	DATE 10/23/97	A/C REG: N72124	MODEL: F33A	A/C S/N: CE-1047
		TACH: 2193.40	TOTAL TIME: 2193.40	
	ENG MODEL: IO-520-BB	S/N: 578059	TSN: 2193.40	TSO: 376.21
	1. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.			
	2. COMPRESSION TEST RESULTS. 1. 75/80, 2. 75/80, 3.63/80, 4.72/80, 5. 74/80, 6. 73/80.			
	3. DRAINED OIL & REFILLED WITH 12 QTS. OF 15W50. INSPECTED & REPLACED OIL FILTER. NEXT OIL CHANGE ***DUE AT 2243 HRS. (TACH).			
	4. REPLACED SPRING ON THROTTLE BODY, INSTALLED P/N 628371. SIGNATURE <i>Frederick W Berry</i> CERT. # 167428916 IA			
	----- END			
10/22/98	KRESS AVIATION INC. 40 SKY MANOR, RD. PITTSTOWN, NJ. 08867			
	DATE 10/22/98	A/C REG: N72124	MODEL: F33A	A/C S/N: CE-1047
		TACH: 2231.40	TOTAL TIME: 2231.40	
	ENG MODEL: IO-520-BB	S/N: 578059	TSN: 2231.40	TSO: 414.21
	1. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.			
	2. COMPRESSION TEST RESULTS. 1. 73/80, 2. 70/80, 3.70/80, 4.71/80, 5. 74/80, 6. 72/80.			
	3. DRAINED OIL & REFILLED WITH 12 QTS. OF 15W50. INSPECTED & REPLACED OIL FILTER. ***NEXT OIL CHANGE DUE AT 2281 HRS. (TACH).***			
	4. C/W AD 88-17-03 STARTER ADAPTER SHAFTGEAR FAILURE. AD IS N/A. AIRCRAFT NOT EQUIPPED WITH AIR CONDITION AS PER APPLICABILITY SECTION.			

OVER

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	2231.4	414.21	2231.4	<b>TOTALS</b> brought forward from previous page
10/22/98				DATE 10/22/98 A/C REG: N72124 MODEL: F33A A/C S/N: CE-1047 TACH: 2231.40 TOTAL TIME: 2231.40
				5. C/W AD 93-10-02 MISSING CYLINDER VALVE RETAINER KEY. AD IS N/A BY ENGINE SERIAL NUMBER IAW MSB 93-12.
				6. C/W AD 93-16-15 FUEL PUMP DRIVE COUPLING. INSTALLED NEW COUPLING P/N: 653359. RUN-UP LEAKED CHECKED GOOD.
				7. AD 97-26-17 C NON-VAR CRANKSHAFT. ***AD IS DUE AT NEXT CRANKSHAFT REMOVAL / OVERHAUL *** SIGNATURE <i>Frederick W. Berry</i> CERT. # 167428916 IA END

11/2/99

KRESS AVIATION INC.  
40 SKY MANOR, RD.  
PITTSTOWN, NJ. 08867DATE 11/02/99 *JMB* A/C REG: N72124 MODEL: F33A A/C S/N: CE-1047  
TACH: 2241.89 TOTAL TIME: 2241.89

ENG. MODEL: IO-520-BB S/N: 578059 TSN: 2241.89 TSO: 424.70

- I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A  
ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
2. COMPRESSION TEST RESULTS.  
1. 73/80, 2. 74/80, 3.72/80, 4.70/80, 5. 75/80, 6. 72/80.
3. DRAINED OIL & REFILLED WITH 12 QTS. OF 15W50. INSPECTED & REPLACED OIL FILTER.  
\*\*\*NEXT OIL CHANGE DUE AT 2291 HRS. (TACH) \*\*\*
4. AD 97-26-17 C NON-VAR CRANKSHAFT. \*\*\*AD IS DUE AT NEXT CRANKSHAFT  
REMOVAL / OVERHAUL \*\*\*
5. AD 98-17-11 CRANKSHAFTS REPAIRED BY "NELSON BALANCING SVC. AD IS N/A BY  
RECORDS CHECK, NO CRANKSHAFT WORK DONE SINCE ENGINE O/H 10/31/91.

SIGNATURE *Frederick W. Berry* CERT. # 167428916 IA  
END

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AP-750-2512IA DATE 9/26/96

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page KRESS AVIATION INC. 40 SKY MANOR, RD. PITTSSTOWN, NJ. 08867
12/22/00	DATE 12/22/00	A/C REG: N72124	MODEL: F33A	A/C S/N: CE-1047
		TACH: 2269.54		TOTAL TIME: 2269.54
	ENG. MODEL: IO-520-BB	S/N: 578059	TSN: 2269.54	TSO: 452.35
	<p>1. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p>2. COMPRESSION TEST RESULTS.</p> <p>1. 71/80, 2. 72/80, 3. 72/80, 4. 75/80, 5. 74/80, 6. 73/80.</p> <p>3. DRAINED OIL &amp; REFILLED WITH 12 QTS. OF 15W50. INSPECTED &amp; REPLACED OIL FILTER. ***NEXT OIL CHANGE DUE AT 2319 HRS. (TACH).***</p> <p>4. AD 97-26-17 C NON-VAR CRANKSHAFT. ***AD IS DUE AT NEXT CRANKSHAFT REMOVAL / OVERHAUL.***</p> <p>5. AD 99-09-17 L SUPERSEDED BY AD 99-19-01.</p> <p>6. AD 99-19-01 TO PREVENT CRANKSHAFT FAILURE DUE TO CRACKS IN CRANKSHAFT CHEEK CRACKS. AD IS N/A, NO CRANKSHAFT WORK DONE IN TIME FRAME SPECIFIED (1/98-12/98). LAST CRANKSHAFT WORK COMPLETED AT OVERHAUL BY MATTITUCK (10/30/91)</p> <p>7. AD 2000-08-51 E TO PREVENT CRANKSHAFT FAILURE DUE TO CRANKSHAFT CONNECTING ROD JOURNAL FAILURE. AD IS N/A, NO CRANKSHAFT WORK DONE IN TIME FRAME GIVEN (5/98-3/2000). LAST CRANKSHAFT WORK COMPLETED AT OVERHAUL BY MATTITUCK (10/31/91).</p>			
	SIGNATURE <i>Frederick M. Berry</i>	CERT. # 167428916 IA END		
12-19-01	2328.3	511.1	2328.3	IO-520-BB S/N 578059
				TSO 511.1
				Total time 2328.3 Date 12-19-01 I certify that this <u>Engmc</u> has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition. <i>Mark Z. Drury AP141582920 IA</i>
				1. Compression Test Results cyl. #1-72 #2-70 #3-70 #4-65 #5-75 #6-72
				2. Drained Engine oil changed Filter Inspected oil filter. Serviced with → over
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE 2001	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
12-19	2328.3	511.1	2328.3	2. 15-50 Aeroshell oil washed Engine Run up leaked checked ops on 3. Replaced EAT Probe with serviceable probe ops on. 4. Replaced Rubber Hoses on Injector line at Holding clamp. 5. Replaced Oasket on oil Dip stick 6. Replaced connectors at oil Temp Probe — End —
				<b>CKED A.D.S TO DATE REVIEW</b> AD. 2000-23-21 CRANKSHAFT FAIL. AD. DATE ENG O/H. CHANGE OIL & FILTER, INST. 11 QTS. 15/50 AEROSHELL OIL & NEW GH 48109 FILTER, CKED. OLD FILTER FOR CONT. "FOUND CLEAN" & W/ ALL ANNUAL INS. & SERV. ITEMS IAW. FAR. 43 AD " COMP # 1 7/80 # 2 7/80 # 3 7/80 # 4 7/80 # 5 7/80 # 6 7/80 TEST RAN TO STATIC Total time 234969 Date 12-13-02 PWR. SAT. I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>ANNUAL</u> inspection and was determined to be in airworthy condition. IA13942312/Alan E. Schier For <u>KRESS AVIATION</u>

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2004	2356.9	539.7	2356.9	TOTALS brought forward from previous page
				Total time 2356.9 Date 4-1-04 I certify that this <u>Enginc</u> has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition. For <u>Matt J. Dwy</u> AP14158920IA
				Compression Test Results Cyl. #1-6C #2-70 #3-60 #4-64 #5-72 #6-71. Changed Engine oil and Filter. Inspected oil Filter serviceable Engine with 12 qts 15-50 AeroShell oil, cleaned and replaced sparkplugs. cleaned fuel Injector nozzles. Inspected exhaust, checked mag timing washed engine Run up ops checked cool — end —
2005	2363.6	546.4	2363.6	Total time 2363.6 Date 5-20-05 I certify that this <u>Enginc</u> has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition. For <u>Matt J. Dwy</u> AP2961896IA
5-20				Compression test Results. Cyl. #1-72 #2-69 #3-65 #4-65 #5-72 #6-72. Changed engine oil. Inspected oil Filter serviceable with 15-50 AeroShell oil. cleaned and replaced sparkplugs. Inspected exhaust. checked mag timing cleaned fuel Injector nozzles and fuel screens. Run up ops checked cool: —
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
4-10-07	569.8	2387.0		<p>Total time <u>2387.0</u> Date <u>4-10-07</u></p> <p>I certify that this <u>Engine</u> has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition.</p> <p>For <u>Mark Z. Pohl AP2096896 JA</u></p> <p>compression Test Results cyl. #1-70 #2-71 #3-70 #4-71 #5-72 #6-72, changed Engine oil and filter. Inspected oil filter serviced with 15-50 Aeroshell oil. cleaned and replaced sparkplugs. checked mag timing Inspected exhaust system, serviced fuel screen. Installed new engine oil filter. lubricated oil line controls.</p>
2010	604.3	2421.5		<p>Total time <u>2421.5</u> Date <u>7-27-2010</u></p> <p>I certify that this <u>Engine</u> has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition.</p> <p>For <u>Mark Z. Pohl AP2096896 JA</u></p> <p>compression Test. cyl #1-67 #2-74 #3-68 #4-67 #5-75 #6-71 changed Engine oil and filter. Inspected oil filter serviced with 15-50 Aeroshell oil. Installed new oil filter cap. Cleaned and replaced sparkplug with new. Cleaned and checked mag timing. Inspected Intake and exhaust systems. Cleaned fuel servo screen</p>

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
2010 7-27	604.3	2421.5		<p>Inspected and lubricated Engine controls  Run up ops checked Accel. AD 07-04-19 N1  Superior Air Parts Cyl. Assy NA. AD 09-16-03  (SAP) Cast Cyl. Assy N1. AD 09-19-07 cracked  EQ3 cylinders NA. AD 09-24-52 E Hydraulic  Value lifters RT. Installed new Engine  air Filter</p>
2011 8-25	2449.7			<p>Checked compression; #1 <del>65</del> /80, #2 <del>73</del> /80, #3 <del>70</del> /80, #4 <del>68</del> /80, #5 <del>72</del> /80, #6 <del>66</del>  Changed oil 12 qts, <del>15-60 Aeroshell</del> &amp; changed filter/inspected-cleaned oil screen  Cleaned-inspected-gapped-tested-rotated spark plugs; checked magnetos-breaker con  Timing; inspected Engine-Prop-Turbocharger-Exhaust System; checked and lubed  Engine controls; washed down engine; cleaned fuel primer nozzles-fuel injector  Nozzles-fuel regulator/carb inlet screen-drained/flushed carb bowl; dressed down  &amp; painted Prop; cleaned/replaced induction air filter; engine ground runup okay.</p> <p>Contract/Invoice Number: 64415</p> <p>Total time <u>2449.7</u> Date <u>8-25-2011</u> Installed on <u>8-25-2011</u></p> <p>I certify that this <u>Engine</u> has <u>Continental</u> <u>IO-520-BB</u> <u>64415</u>  been inspected in accordance with a <u>Annual</u> <u>Inspection and was</u> <u>air control</u>  determined to be in airworthy condition.</p> <p>For <u>Martin Kress AP290189GIA</u> <u>PIN 63141615</u> <u>64415</u>  OVERHAULED <u>end</u></p>
2012 8-23	649.	2466.		<p>SOMERSET AIR SERVICE, Inc.  P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359</p> <p>DATE: 8-23-2012  REG N72124      MAKE: TCM      Model: IO-520-BB      Tach: 2466  SMOH: 649</p> <p><u>ENGINE/ANNUAL</u> -Cleaned gapped and rotated spark plugs. Checked magneto timing  Compression test: 1) 64 2) 60 3) 60 4) 74 5) 70 6) 67 over 80psi. Inspect intake gaskets,  hoses and pipes. Change oil and filter service with 11 qts Aeroshell 15w50 and CH48109 filter.  Cut open oil filter and inspect for debris, found clean. Check for fuel and oil leaks. Replaced  rocker cover gasket on cylinder #3. Adjust mixture. Check condition of alternator and starter.  Replaced oil dip stick gasket. Inspect exhaust system and gaskets. Replaced right muffler with  new muffler p/n K701-5 and replaced hardware with stainless steel as needed.  De-greased engine and lubed engine controls. Run-up, ops and leak check OK.  I certify that this engine has been inspected in accordance with an Annual inspection and  was determined to be in airworthy condition.</p> <p><u>Martin Kress AP290189GIA</u>  Authorized Signature      Martin Kress</p>

SOMERSET AIR SERVICE, Inc.  
P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359

DATE: 10/4/2013      MAKE: TCM      Model: IO-520-BB      SMOH: 658  
REG N72124

ENGINE/ANNUAL -Cleaned gapped and rotated spark plugs. Checked magneto timing. Compression test: 1) 65 2) 75 3) 58 4) 57 5) 74 6) 66 over 80psi. Inspect intake gaskets, hoses and pipes. Change oil and filter, service with 11 qts Aeroshell 15w50 and CH48109 filter. Cut open oil filter and inspect for debris, found clean. Check for fuel and oil leaks. Check condition of alternator and starter. Inspect exhaust system and gaskets. Replace left muffler with new p/n K701-04 and also replace hardware with stainless steel as needed. De-greased engine and lubed engine controls. Run-up, ops and leak check OK. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Authorized Signature      Martin Kress

Martin Kress

SOMERSET AIR SERVICE, Inc.  
P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359

DATE: 10/21/2014 Tach: 2484.2  
REG N72124 MAKE: TCM Model: IO-520-BB SMOH: 664.7

Clean, gap and rotated spark plugs  
Checked magneto timing - both ok  
Compression test: 1) 62 2) 74 3) 57 4) 607 5) 66 6) 68 over 80psi  
Inspect intake gaskets, hoses and pipes  
Change oil and filter, service with 11 qts Aeroshell 15w50 and CH48109 filter.  
Check filter for metal. Check for fuel and oil leaks.  
Check mounting hardware for alternator and starter.  
Inspect exhaust system and gaskets.  
De greased engine and lubed engine controls. Run- up, ops and leak check OK.

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

Authorized Signature      Martin Kress

SOMERSET AIR SERVICE, Inc.  
nster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359

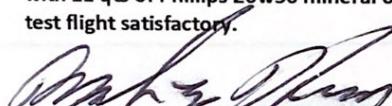
DATE: 12-10-2015 Tach: 2492.6  
REG N72124 MAKE: TCM Model: 10-520-BB  
SMOHI: 6751

Clean, gap and rotated spark plugs reinstall with new gaskets  
Send both mags out for 500 hour magneto inspection at Aircraft Magneto Service  
Reinstall with new drive bushes and gaskets  
Compression test 1) 60 2) 75 3) 50 4) 60 5) 70 6) 60 over 80psi  
Inspect intake gaskets, hoses and pipes  
Change oil and filter, service with 1P qts Aeroshell 15w50 and C H48109 filter.  
Check filter for metal. Check for fuel and oil leaks  
Check mounting hardware for alternator and starter  
Inspect exhaust system and gaskets  
Re greased engine and lubed engine controls. Run up, ops and leak check OK.

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

Authorized Signature Martin Kress

**TOTALS**—Carry forward to next page

TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK		
TOTALS brought forward from previous page				
SOMERSET AIR SERVICE, Inc. P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359				
Date 9/9/2016	Tach: 2500.2	Make: Beech	N72124	
Model: F33A				
Replaced cylinders #3 and #4 due to low compression. Install 2 new TCM steel cylinder kits p/n 658552A4BP. Install new piston pins p/n SA630046. Replaced intake and exhaust gaskets as needed. Change oil and filter, service engine with 11 qts of Phillips 20w50 mineral oil and a CH48109-1 filter. Run up and test flight satisfactory.				
 Martin Kress				

1. Approving Civil Aviation Authority/Country: FAA/United States	2.
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**AUTHORIZED RELEASE**

FAA FORM 8130-3, AIRWORTHINESS

4. Organization Name and Address

Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615

6. Item:	7. Description	8. Part Number:
1	CYL & VALVE ASSY LOADED, BAL	658552A4BP

12. Remarks:

AIRWORTHINESS APPROVAL

Serial/Batch Number(s):

Serial	Description	Serial	Description	Serial
AC16CA252	CYL & VALVE ASS	AC16CA245	CYL & VALVE ASS	AC
AC16CA288	CYL & VALVE ASS	AC16CA243	CYL & VALVE ASS	AC
AC16CA289	CYL & VALVE ASS	AC16CA337	CYL & VALVE ASS	AC
AC16CA313	CYL & VALVE ASS	AC13CA264	CYL & VALVE ASS	AC
AC16CA269	CYL & VALVE ASS	AC16CA662	CYL & VALVE ASS	AC
AC16CA291	CYL & VALVE ASS	AC16CA292	CYL & VALVE ASS	AC
AC16CA262	CYL & VALVE ASS	AC16CA294	CYL & VALVE ASS	AC
		AC16CA285	CYL & VALVE ASS	

SECTION OF WORK PERFORMED—  
NAME & CERTIFICATE NO. OF PERSON PERFORMING WORK

SOMERSET AIR SERVICE, Inc.  
P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359

DATE: 3-22-2018 Tach: 2529.7  
REG N72124 MAKE: TCM Model: IO-520-BB SMOH: 712.2

Clean, gap and rotated spark plugs reinstall with new gaskets  
Compression test: 1) 30/80 2) 66/80 3) 72/80 4) 74/80 5) 74/80 6) 70/80. CYLINDER #1  
LOW COMPRESSION - BOROSCOPE CYLINDER AND INSPECT EXHAUST VALVE, APPEARS OK.  
RECOMMEND FLYING PLANE FOR 10 HOURS AND HAVING THE CYLINDER COMPRESSION  
RETESTED. REPLACED ENGINE DRIVEN FUEL PUMP WITH AN OVERHAULED PUMP P/N 638154-  
16 S/N 3723. RUN UP SATISFACTORY. Inspect intake gaskets, hoses and pipes. Change oil and  
filter, service with 11 qts of Aeroshell 15w50 and CH48109 filter. Check filter for metal. Check for  
fuel and oil leaks. Check mounting hardware for alternator and starter. Inspect exhaust system  
and gaskets. De-greased engine and lubed engine controls. Run-up, ops and leak check OK.

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

*John* AP 3117495 TA John Bartley

SOMERSET AIR SERVICE, Inc.  
P.O. BOX 1007 Bedminster, NJ 07921 Tel: (908) 722-8251 Fax: (908) 722-1359

DATE: 4/12/2019 Tach 2547  
REG N72124 MAKE: TCM Model: IO-520-BB SMOH: 729.5

Compression test: 1) \*\*/80 2) 66/80 3) 76/80 4) 74/80 5) 76/80 6) 78/80.  
Clean, gap and rotated spark plugs reinstall with new gaskets. Replaced cylinder  
No. 1 due to low compression and a greenish colored exhaust valve. Install a new  
TCM cylinder kit p/n 658552A4 and a new Superior piston pin p/n SA630046. Run  
up several times. Inspect intake gaskets, hoses and pipes. Engine oil drained. Filter  
removed and inspected for contaminates, nothing found. Install a new oil filter p/n  
CH48109-1 and serviced engine with 11 qts of Phillips 20w50 Mineral Oil. Check  
mounting hardware for alternator and starter. Inspect exhaust system and gaskets.  
De-greased engine and lubed engine controls. Run-up, ops and leak check OK.

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

*John* AP 3117495 TA John Bartley

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
<p><b>N72124, Beechcraft Bonanza, F33A, S/N CE-1047, Continental IO-520-BB, S/N 578059</b>  <b>2558.35 Tach, 2558.35 Total Time A/F, 2558.35 TT Eng., 741.16 SMOH</b>  <b>May 1, 2020</b></p> <p><b>ENGINE:</b> Annual Inspection completed.      Change oil and filter, service with Phillips X/C 20w-50 to 10 quarts. Replace spark plugs with new URHB32E plugs.      Installed GAMI injectors, in accordance with General Aircraft Modifications STC SE09217SC, Kit No. GAD13A, S/N 28902. See FAA Form 337 this date.      Run up – OK Checked for leaks, none found.      Checked and cleaned spark plugs. Checked fuel system, drained sumps, cleaned fuel bowl screen. Checked starter and alternator, wiring and mounting. Checked magnetos and magneto timing. Checked exhaust system for condition and security. Engine run up and checked for leaks.</p> <p style="text-align: center;"><b>Compressions:</b>  <b>#1 – 71, #2 – 75, #3 – 72, #4 – 70, #5 – 72, #6 – 77</b>      Tester calibrated per SB03-3, 42/80 is the lowest acceptable compression reading.</p> <p>This <b>ENGINE</b> has been inspected in accordance with an <b>ANNUAL INSPECTION</b>.      All work was accomplished using Manufacturers Service Manuals and/or checklists, and was found to be in an <b>AIRWORTHY CONDITION</b>.</p> <p style="text-align: center;"><b>May 1, 2020, 2558.35 Tach, 2558.35 Total Time</b></p> <p>Peter Vajsabel A&amp;P 3477997IA <i>Peter Vajsabel A&amp;P 3477997IA</i></p> <p><b>N72124, Beechcraft Bonanza, F33A, S/N CE-1047, Continental IO-520-BB, S/N 578059</b>  <b>2648.8 Tach, 2648.8 Total Time A/F, 2648.8 TT Eng., 831.6 SMOH</b>  <b>June 10, 2021</b></p> <p><b>ENGINE:</b> Annual Inspection completed.      Change oil and filter, service with Phillips X/C 20w-50 to 10 quarts.      Run up – OK Checked for leaks, none found.      Checked and cleaned spark plugs. Checked fuel system, drained sumps, cleaned fuel bowl screen. Checked starter and alternator, wiring and mounting. Checked magnetos and magneto timing. Checked exhaust system for condition and security. Engine run up and checked for leaks.</p> <p style="text-align: center;"><b>Compressions:</b>  <b>#1 – 66, #2 – 60, #3 – 62, #4 – 62, #5 – 67, #6 – 60</b>      Tester calibrated per SB03-3, 42/80 is the lowest acceptable compression reading.</p> <p>This <b>ENGINE</b> has been inspected in accordance with an <b>ANNUAL INSPECTION</b>.      All work was accomplished using Manufacturers Service Manuals and/or checklists, and was found to be in an <b>AIRWORTHY CONDITION</b>.</p> <p style="text-align: center;"><b>June 10, 2021, 2648.8 Tach, 2648.8 Total Time</b></p> <p>Peter Vajsabel A&amp;P 3477997IA <i>Peter Vajsabel A&amp;P 3477997IA</i></p>				
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N72124, Beechcraft Bonanza, F33A, S/N CE-1047, Continental IO-520-BB, S/N 578059  
2669.5 Tach, 2669.5 Total Time A/F, 2669.5 TT Eng., 852.3 SMOH  
May 4, 2022

**ENGINE:** Annual Inspection completed.

Remove & replace #2 cylinder after repair for worn valve guide.

AD2022-04-04, STC Oil Filter Adapter, N/A – Affected parts not installed.

Change oil and filter, service with Phillips X/C 20w-50 to 10 quarts.

Run up – OK Checked for leaks, none found.

Checked and cleaned spark plugs. Checked fuel system, drained sumps, cleaned fuel bowl screen. Checked starter and alternator, wiring, and mounting. Checked magnetos and magneto timing. Checked exhaust system for condition and security. Engine run up and checked for leaks.

**Compressions:**

#1 – 66, #2 – Repaired, #3 – 62, #4 – 62, #5 – 67, #6 – 60

Tester calibrated per SB03-3, 42/80 is the lowest acceptable compression reading.

This **ENGINE** has been inspected in accordance with an **ANNUAL INSPECTION**.

All work was accomplished using Manufacturers Service Manuals and/or checklists, and was found to be in an

**AIRWORTHY CONDITION.**

May 4, 2022, 2669.5 Tach, 2669.5 Total Time

Peter Vajsabel A&P 3477997IA Peter Vajsabel A&P 3477997IA

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NY25V DATE 9/22 G151