

# Teledyne Continental Motors

## Aircraft Engine Standard Acceptance

### Test Log (TH-125)

TCM Engine Model	IO-550B128B
TCM Serial#	1007324
Test Document	TH-3215 Rev H
Software Release#	2.00, 01/05/10
Start Time	10/5/2012, 09:56:06
Accepted Time	10/5/2012, 11:57:21
Cell# & Operator	5, 30683
Sea Level Power	300 HP @ 2700 Prop RPM
Vapor Pressure	0.52 in HG
Temp, Wet Baro	75.64 F, 30.12 in HG

Test Club#	D2258A
Rqrd Pitch	20+-5
Actual Pitch	20
Mixture Check	Pass
Alternator Check	PASS

Mag Data		Required	Actual
Eng Speed Both		2100	2108
Eng Speed Right		N/A	2025
Right Mag Drop		150	83
Eng Speed Left		N/A	2064
Left Mag Drop		150	44
Mag Drop Spread		50	39
Fuel Flow (Ref.)		70	69

**Note: Magneto check between Run 2 & 3**

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8
Time Of Day	09:59:41	10:02:05	10:05:24	10:18:35	10:28:02	10:40:12	10:46:03	11:33:59
Run Time Rqd (MM:SS)	01:00	01:00	01:00	10:00	10:00	01:00	10:00	05:00
Run Time	01:00	01:00	01:00	10:00	10:00	01:00	10:00	05:00
Prop Speed Rqd (RPM)	1175-1225	1575-1625	2425-2475	2732-2782	2505-2530	575-625	2490-2515	2494-2519
Prop Speed	1209	1599	2446	2755	2518	618	2498	2498
Manifold Press Rqd (inHg)	N/A	N/A	N/A	26.6-29.6	N/A	18.5 MAX	N/A	N/A
Manifold Press	11.9	15.1	23.4	29.0	24.3	13.1	23.8	24.3
Turbo Dis Press Rqd (inHg)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbo Dis Press	30.1	30.1	30.1	30.1	30.0	30.1	30.0	30.0
Fuel Flow Rqd (lb/hr)	N/A	N/A	N/A	150.7-160.7	103.4-127.4	N/A	N/A	N/A
Fuel Flow	20.8	35.7	101.3	158.6	118.3	9.4	109.6	114.3
Nozzle Press Rqd (PSID)	N/A	N/A	N/A	18.7-19.3	12.1-13.3	N/A	N/A	N/A
Nozzle Press	4.1	4.3	10.8	19.3	12.6	3.1	11.9	12.3
Fuel Pump Press Rqd (PSIG)	N/A	N/A	N/A	32.7 REF	N/A	8.0-10.0	N/A	N/A
Fuel Pump Press	12.5	16.5	29.2	33.6	30.9	9.1	30.3	29.9
Fuel Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fuel Temp	67	63	57	54	60	65	63	62
Ambient Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temp	78	79	84	86	93	90	83	88
Eng Inlet Oil Temp Rqd (°F)	90-240	120-240	165-240	180-240	165-240	140-240	165-240	165-240
Eng Inlet Oil Temp	116	146	167	219	200	201	172	165
Eng Oil Press Rqd (PSIG)	30.0 MIN	30.0 MIN	30.0 MIN	36.5-47.5	30.0 MIN	12.5 MIN	30.0 MIN	30.0 MIN
Eng Oil Press	53.5	50.7	52.6	45.8	46.1	17.1	50.7	55.9
Min Cylinder Temp Rqd (°F)	150 MIN	175 MIN	250 MIN	250 MIN	250 MIN	N/A	250 MIN	250 MIN
Max Cylinder Temp Rqd (°F)	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX
Cylinder 1 Temp	263	308	377	445	412	326	318	339
Cylinder 2 Temp	248	282	360	447	417	321	306	326
Cylinder 3 Temp	248	271	350	433	406	300	311	328
Cylinder 4 Temp	243	270	356	395	402	297	296	323
Cylinder 5 Temp	238	254	334	407	388	277	289	317
Cylinder 6 Temp	215	238	295	321	324	234	250	276
Collar Press Differential Rqd (PSID)	N/A	N/A	N/A	10.9 MAX	N/A	N/A	N/A	N/A
Collar Press Differential	6.0	2.3	2.1	1.3	1.2	-0.1	1.4	1.8



## Continental Motors, Inc.

Engine Component Information Sheet

Printed : 10/8/2012

Serial: 1007324 Assembled: 10/4/2012  
 Spec: I0550B128B Shipped:  
 New/Rebuilt: NEW Packed: 10/8/2012

Customer Name:

Shipping Address:

Component	Serial Number	Component	Serial Number
CAMSHAFT	140060	L. TURBO	N/A
CRANKSHAFT	N12HA016	R. TURBO	N/A
CRANKCASE	R12HA197	OVERBOOST	N/A
CONNROD	AE12HA187	CONTROLLER	N/A
CONNROD	AE12HA759	WASTEGATE	N/A
CONNROD	AE12HA208	CYLINDER - 1	AC12HA804
CONNROD	AE12HA205	CYLINDER - 2	AC12HB336
CONNROD	AE12HA757	CYLINDER - 3	AC12HA846
CONNROD	AE12HA191	CYLINDER - 4	AC12HA836
L MAGNETO	12061585	CYLINDER - 5	AC12HA943
R MAGNETO	12061586	CYLINDER - 6	AC12HA855
CARBURETOR	N/A	CYL FLOW CODE	N/A
FUEL PUMP	B12IA196	NOZZLE - 1	1253
MANIFOLD VALVE	C12IA084	NOZZLE - 2	2253
METERING UNIT	A12IA030	NOZZLE - 3	3248
STARTER	H-V-211233	NOZZLE - 4	4243
ALTERNATOR	012HA043	NOZZLE - 5	5239
ALTERNATOR 2	N/A	NOZZLE - 6	6239
DRIVE GEAR	N/A	OIL COOLER	F11-9375-56
IVEN GEAR	N/A	PISTON WEIGHT	N/A

Form QA-85A (MAR 2012)



Pack Inspection Stamp

All of the information provided herein is subject to verification by the user. Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.

# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min
1-26-13	0	0	0	0

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

This engine has been installed on aircraft serial number E-3989 and has been fully charged with Phillips 66 Type M SAE 20W-50.

*Dale W. Dodd*  
 Dale W. Dodd  
 For Hawker Beechcraft Corporation PC#8

## Jewell Aviation Inc.

418 Airport Rd.  
 P.O. Box 623  
 Kennett, MO 63857  
 573-888-5846  
 www.jewellaviation.com

Make:	TCM
Model:	IO550B128B
Serial#	1007324
Date:	3/14/2013
Hobbs Time:	31.6
Total Time:	31.6

This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and installed new oil filter. Test run engine and checked for leaks, all systems checked normal.

*David Jewell AOP3036572*

Continental	IO-550-B	N336S
August 1, 2013	Tach Time 84	
Drained oil and inspected oil filter for metal, none found. Installed new filter and filled engine with 12 qts Phillips XC20W50, washed down engine, and test ran. No leaks were found.		

*David Jewell AOP3036572*

## Jewell Aviation Inc.

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 P.O. Box 623  
 Kennett, MO 63857  
 573-888-5846  
 www.jewellaviation.com

Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	10/7/2013
Hobbs Time:	125.4
Total Time:	125.4

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

Aircraft returned to service.

*David Jewell AOP3036572*

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carrier

**Jewell Aviation Inc.**

418 Airport Rd.  
P.O. Box 623  
Kennett, MO 63857  
573-888-5846  
www.jewellaviation.com

Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	1/21/2014
Hobbs Time:	158.7

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

Aircraft returned to service.

*David Jewell*  
AOP 3036572

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www.jewellaviation.com

Make:	TCM
Model:	IO-550-B Spec39
Serial#	1007324
Date:	3/4/2014
Total Time:	182.2
N336S	

This date performed an annual inspection on this engine. Performed compression test on all Cylinders: 1. 78/80 2. 76/80 3. 76/80 4. 78/80 5. 77/80 6. 76/80, all cylinder were found to be in acceptable limits. Changed oil and inspected filter, no metal found. Filled with 12 qt. Phillips XC20W50 oil. I certify that this engine has been inspected in accordance with and Annual Inspection and was determined to be in an airworthy condition.

*David Jewell* JA 3036572

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Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	5/13/2014
Hobbs Time:	220.4

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

Aircraft returned to service.

*David Jewell* AOP 3036572

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carrier

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Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	9/19/2014
Hobbs Time:	256.3

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

Aircraft returned to service.

*David Jewell A/P 3036572*

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Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	12/2/2014
Hobbs Time:	291.4

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

2. Secured bolts on left exhaust attach clamps.

Aircraft returned to service.

*David Jewell A/P 3036572*

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www.jewellaviation.com

Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	1/28/2015
Hobbs Time:	326.6

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.

Aircraft returned to service.

*David Jewell A/P 3036572*


Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

*Tulsa* **Beechcraft** / Memphis *Inc*

8092 Memphis Avenue, Millington TN 38053

PH. 901-873-4780

CRS#T8BD652N

March 16, 2015

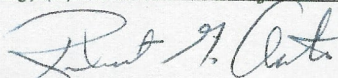
Hourmeter: 336.5

N336S

S/N E-3989

Complied with a 100-hour **Inspection** in accordance with the Beechcraft Bonanza inspection Guide dated April 1, 2014. Ad listing checked thru **biweekly 2015-05**. Compression checks were as follows: #1/56, #2/55, #3/65, #4/68, #5/64, #6/69. Master orifice reading for the day was 42.p.s.i. Removed #1 and # 2 cylinder for (ring/exhaust valve) repair by TCM CRS# 9CER853B. Reinstalled cylinders after repair using all new gaskets and hardware. Cleaned and inspected induction air filter. Drained oil and removed oil filter. Inspected filter for contamination and none found. Installed a new CH48109-1 filter and secured. Serviced oil system with 11 qts. Phillips X/C 20W50. Removed, cleaned and inspected fuel injection nozzles. Installed a new spark plug PN URHB32S in the upper #6 cylinder position. Post inspection operational and leak checks were good.

I certify that this engine has been inspected in accordance with a 100-hour Inspection under FAR 91.409(f)(3) and has been found airworthy and is approved for return to service.



Robert G Antis

Details on file under W.O.# 952275 / 952276 / 952279

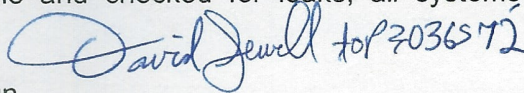
### Jewell Aviation Inc.

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573-888-5846  
www.jewellaviation.com

Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	6/10/2015
Hobbs Time:	365.1

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.
  2. Retimed Magnetos to 22° BTC
- Aircraft returned to service after test run.



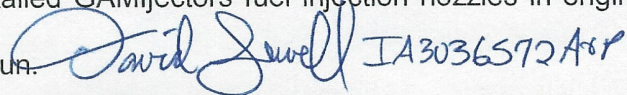
### Jewell Aviation Inc.

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Kennett, MO 63857  
573-888-5846  
www.jewellaviation.com

Make:	TCM
Model:	IO-550-B
Serial#	1007324
Date:	8/17/2015
Hobbs Time:	382.1

This date performed the following:

1. Modified engine with installation of STC SE09217SC PMA No. PQ821SW per GAMInjectors Installation Procedure No. IP-96-001 (Rev005) dated 11 Oct 2002. Removed TCM injectors and installed GAMInjectors fuel injection nozzles in engine. See form 337.
- Aircraft returned to service after test run.



Da **Jewell Aviation Inc.**

418 Airport Rd.  
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Kennett, MO 63857  
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www.jewellaviation.com

Make: TCM  
Model: IO-550-B  
Serial#: 1007324  
Date: 10/10/2015  
Hobbs Time: 401.8

Carried f

This date performed the following:

1. This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal.
  2. Replaced Freon Compressor Bracket and Belt
- Aircraft returned to service after test run.

*David Jewell A/P 3036572*

**Jewell Aviation Inc.**

418 Airport Rd.  
P.O. Box 623  
Kennett, MO 63857  
573-888-5846  
www.jewellaviation.com

Make: TCM  
Model: IO-550-B  
Serial#: 1007324  
Date: 1/19/2016  
Hobbs Time: 439.3

This date drained oil and removed filter from engine. Cut open and inspected oil filter, no metal was found. Filled engine with 11 quarts of Phillips XC20W50 Oil and ASL CamGuard. Test run engine and checked for leaks, all systems checked normal. Aircraft returned to service after test run.

*David Jewell A/P 3036572*

Make: Continental Motors  
Model: IO550B128  
Serial No.: 1007324



Date: 2/12/2016  
Hobbs Time: 450.1

**CONTINENTAL MOTORS SERVICES**

Continental Motors Services, 8600 County Road 32, Fairhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed:** Removed all 6 cylinders and installed Factory New EQ7048 Top Overhaul Kit. New cylinder serial numbers are as follows: 1 - AC16AA338; 2 - AC16AA335; 3 - AC16AA310; 4 - AC16AA678; 5 - AC16AA677; 6 - AC16AA361. Drained oil and installed new AA48109 filter. Serviced engine with 12 quarts of Aeroshell 100 mineral oil. Completed ground operation and leak checks. Completed initial ground operation cylinder break-in. Completed cylinder break-in flights. ---END---

Authorized Signature for Repair Station 9CER853B:

*Kenneth May*

Details of the work performed are on file under Work Order No. AC-6843

Reg.: N336S  
Make/Model: Beech G36  
Serial No.: E-3989



Date: 2/12/2016  
Hobbs Time: 452.1

**CONTINENTAL MOTORS SERVICES**

Continental Motors Services, 8600 County Road 32, Fairhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed:** Installed new Alcor 86245 EGT probe for cylinder #2. ---END---

Authorized Signature for Repair Station 9CER853B:


*Kenneth May*

Details of the work performed are on file under Work Order No. AC-6843

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	Hours	Min	Hours	Min	

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Carried



**AMS**  
AIRCRAFT MECHANICAL SERVICES, Inc.  
9519 Airport Drive, Hanger 19  
Visalia, CA 93277


**Engine**

DATE: 01/04/17      MODEL: IO-550-B      TSN: 584.1      TACH: 584.1  
 REG: N336S      S/N: 1007324

- SERVICE ENGINE WITH 12 QUARTS OF PHILLIPS 20W 50XC.
- INSTALL NEW OIL FILTER P/N: CH48109-1.
- ENGINE OIL SAMPLE TAKEN.
- REPLACE OIL FILTER GASKET PN: 642892

*Raphael Lopez*  
RAPHAEL LOPEZ - A&P 2709706

PERTINENT DETAILS ON FILE: W.O. 336010417



**AMS**  
AIRCRAFT MECHANICAL SERVICES, Inc.  
9519 Airport Drive, Hanger 19  
Visalia, CA 93277


**Engine**

DATE: 04/26/17      MODEL: IO-550-B      TSN: 612.0      HOBBS: 612.0  
 REG: N336S      S/N: 1007324

- SERVICE ENGINE WITH 12 QUARTS OF PHILLIPS 20W 50XC.
- INSTALL NEW OIL FILTER P/N: CH48109-1.
- ENGINE OIL SAMPLE TAKEN.
- REPLACE L/H MAGNETO P/N:6310 S/N:15110262, R/H MAGNETO P/N:6310 S/N:15110264, GASKETS P/N:649954 AND TIMED TO ENGINE.
- \* COMPRESSION TEST: 1/70, 2/70, 3/70, 4/70, 5/70, 6/70.

*Steve Stewart*  
STEVE STEWART - A&P 2129169

PERTINENT DETAILS ON FILE: W.O. 336042617



**AMS**  
AIRCRAFT MECHANICAL SERVICES, Inc.  
9519 Airport Drive, Hanger 19  
Visalia, CA 93277

**Engine**

DATE: 04/26/17      MODEL: IO-550-B      TSN: 612.0      HOBBS: 612.0  
 REG: N336S      S/N: 1007324

ANNUAL INSPECTION COMPLETED THIS DATE. ALL APPLICABLE AD'S CHECKED AND C/W OR N/A AS LISTED IN AD LOG. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH **ANNUAL** INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. APPROVED FOR RETURN TO SERVICE.

*Stephen Stewart*  
STEPHEN STEWART - IA 2129169

PERTINENT DETAILS ON FILE: W.O. 336042617



