



Engine Discrepancy Record

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Aircraft: N: 6149B Date: 01/31/11 Tach: 7103.1 TSMO: 1258.5

ITEM	DISCREPANCY	CORRECTIVE ACTION	NAME	CERT.	INSP.	TIME
1	Comply With 50 HR Engine Oil And Filter Change.	CHG 50HR OIL CHANGE	[REDACTED]	[REDACTED]	[REDACTED]	1/31
2	Drain Engine Oil	DRAINED ENG OIL	[REDACTED]	[REDACTED]	[REDACTED]	1/31
3	Remove & Inspect Filter Element	REMOVED & INSPECTED FILTER. NO DEFECTS NOTED	[REDACTED]	[REDACTED]	[REDACTED]	1/31
4	Safety Oil Drain Plug	INSTALLED & SAFETIED DRAIN PLUG	[REDACTED]	[REDACTED]	[REDACTED]	1/31
5	Service Engine Oil	SERVICED 10 QTS 6SW ARDSHELL	[REDACTED]	[REDACTED]	[REDACTED]	1/31
6	Install & Safety New Oil Filter	INSTALLED, TOOKED, & SAFETIED NEW FILTER P/N AA48108-2	[REDACTED]	[REDACTED]	[REDACTED]	1/31
7	Leak Check Due After Oil Change	LEAK CHECK GOOD.	[REDACTED]	[REDACTED]	[REDACTED]	1/31
						TOTAL TIME

1

FLIGHT EXPRESS, INC.  
CESSNA 210/T210  
ENGINE 100-HOUR INSPECTION CHECKLIST  
(FAR 135.421a)

AIRCRAFT N 61496 DATE 01/03/11 TACH 7059.8 ACTT 12,014.7 TSMOH 1215.2

- 1 - Check Cockpit Maintenance Report, For Recurring Engine AD's and Enter on Engine Discrepancy Sheets AS
- 2 - Calculate engine TSMOH, Enter on Engine Discrepancy Sheet AS
- 3 - Check TIS of governor and prop (if less than 90hr to TBO, notify Maintenance Coordinator) AS

**TAXI CHECK FLIGHT INSTRUMENTS:**

- 1 - Check for operation: Directional gyro AS Attitude Indicator AS Turn Coordinator AS

**PRE-INSPECTION RUN-UP:**

- 1 - AT 1700 RPM: Mag drop Lt 75 Mag drop Rt 75 Suction 5.2 " Cycle Prop 400
- 2 - At Full Power: (Keep to Minimum) MP 27 RPM 2650 F/F 200 Oil Press 50  
Oil Temp AS CHT AS Alt Output AS EGT AS
- 3 - At Idle: (650-700) AS MP 13 Oil Press 45 Oil Temp AS CHT AS  
Alternate Vacuum if installed 5.5 Magneto System Grounding Check AS
- 4 - OPS CHECK BC425 STANDBY ALTERNATOR IF INSTALLED AS (See Form FX1020BC for op's info)
- 5 - CUTOFF RISE AT 1,000 RPM: 50 RPM.

ACCOMPLISHED BY: [Redacted] A&P# [Redacted] Date 01/03/11

**POST INSPECTION RUN-UP:**

- 1 - AT 1700 RPM: Mag drop Lt 95 Mag drop Rt 95 Suction 5.2 " Cycle Prop 375
- 2 - At Full Power: (Keep to Minimum) MP 27 RPM 2675 F/F 21 Oil Press ✓  
Oil Temp ✓ CHT ✓ Alt Output ✓ EGT ✓
- 3 - At Idle: (650-700) 700 MP 13 Oil Press ✓ Oil Temp ✓ CHT ✓  
Alternate Vacuum if installed ✓ Magneto System Grounding Check ✓
- 4 - OPS CHECK BC425 STANDBY ALTERNATOR IF INSTALLED ✓ (See Form FX1020BC for op's info)
- 5 - CUTOFF RISE AT 1,000 RPM: 50 RPM.

Signature: [Redacted] A&P# [Redacted] Date: 01/04/2011

**ENGINE:**

- 1 - **RECORD ON DISC. SHEET:** Compression Test /80 pub Engine Oil Drained pub  
 Replace & Safety Oil Filter pub Inspect Old Oil Filter Element pub  
 Install plug & safety drain plug pub Service engine oil pub
- 2a - **MAGNETOS:** Check for oil leaks, condition & security of Mags & "P" leads pub  
 Timing check 22 degrees BTC pub Ignition harness for condition & security pub
- 2b - **MAGNETOS: 500 Inspection:(TCM & Slick)** Inspect I/A/W Overhaul Manual
- 3 - **COWLING** - Check for cracks, dents & other damage pub Security & condition of cowl fasteners pub  
 Baffle Seals for condition & attachment pub Engine cowl flaps and controls. pub
- 4 - **ENGINE MOUNT** - Engine shock mounts, Mount structure & ground strap pub
- 5 - **CRANKCASE, OIL SUMP AND ACCESSORY SECTION** - Inspect for cracks and evidence of oil  
 Leakage pub Check bolts and nuts for looseness pub Check breather tube lines for general condition  
 Obstructions & security pub Front crank shaft seal for leaking pub
- 6 - **ENGINE CYLINDERS** - Check for cracks on cylinder head & cooling fins pub  
 Valve cover gaskets & push rod housings for leaks pub
- 7 - **ENGINE BAFFLES, INTER-CYL BAFFLES & SEALS** - Check for condition & security of attachment pub
- 8 - **ENGINE CONTROLS & LINKAGE** - Check general condition & freedom of movement pub  
 Check for travel, security & attachment for evidence of wear pub Check friction locks or vernier  
 for operation pub
- 9 - **GOVERNOR** - Condition, security, control operation, cable bracket wear, operation & oil leaks pub
- 10 - **FUEL INJECTION SYSTEM** - Condition & security of mixture control unit, flow divider & fuel injector lines pub  
**Fuel injector nozzles:** Inspect & clean on condition (or) 300 hours of operation       
**Check fuel control screen assy: (IO-520L)**     . (Gasket P/N 649983) Pressurize system and leak check
- 11 - **ENGINE DRIVEN FUEL PUMP** - Check for evidence of leakage, security, attachment & condition pub
- 12 - **INDUCTION SYSTEM** - Inspect for evidence of leakage, security of clamps, tubes & ducting pub  
 Throttle body for condition & security of levers pub Inspect air box (See AF-AD 85-10-02) & alternate air door  
 for operation, condition & security pub Replace filter every 200 hours      (BA2205L / IO-520L)  
 (BA124E / IO-550-P)
- 13 - **B & C L60-2 ALTERNATOR BELT** - Replace alternator belt P/N Gates 7300, every 200 hrs       
 Check belt tension and condition      Check alignment of pulleys       
 (Belt-tension, 3/8" deflections with 12 lbs. pressure applied at center of belt).
- 14 - **ALTERNATORS AND REGULATORS :**
- A - Aft mounted alternators (B & C L60-2)**      (Ford 95 amp)       
 Check belt for condition & tension      Electrical connections, wires & support brackets       
 Bottom attach bolt torque 41 ft. lbs. plus      Check bolt for non-rotation at torque
- B - (550P) Fwd Mounted Alternator:**  
 Check condition & attachments      Oil leaks      Wiring harness
- C - (B & C B425) Standby Alternator:** Check for security & condition pub Wiring pub

AIRCRAFT N 6149B

TACH 7059.8

- 15 - OIL COOLER - Check for condition, security & leaks pub Oil temp probe for leaks and security pub
- 16 - EXHAUST SYSTEM (COLLECTORS, MUFFLERS AND TAIL PIPES)  
Inspect for cracks and security pub Cabin heat shroud and ducting pub Cabin heat box & valve pub  
Inspect mufflers for cracks & burned out flame arresters pub Tail pipe supports pub
- 17 - ELECTRICAL WIRING - (Inspect for condition & security) at firewall pub CHT pub Oil Temp pub  
EGT Probe pub
- 18 - STANDBY VACUUM SYSTEM - Check for condition & security pub
- 19 - FIREWALL - Check for condition, deformation wrinkles, & cracks pub
- 20 - HOSES - Check for condition, chaffing, routing, leaking & security: Main fuel pub Oil pressure pub  
Manifold Pressure pub Fuel flow pub Fuel Pump pub Vapor return to firewall fitting pub
- 21 - STARTER - Check for security & condition pub Solenoid & electrical connections pub
- 22 - VACUUM/PRESSURE SYSTEM - Check for condition of hoses pub Condition, security & leakage at pump  
Vacuum pressure relief valve for security & condition pub Replace relief valve filter (Every 100 hrs) pub  
Air/oil separator and hoses for condition & security pub
- 23 - SPARK PLUGS: Cleaned & Gapped pub Tested pub Install and Torque all plugs pub  
When all engine discrepancies are cleared, install all leads pub

I certify this ENGINE has been inspected in accordance with a 100 HR Inspection and was determined  
To be in airworthy condition.

Signature: [Redacted]

A&P #: [Redacted]

Date: 01/03/11

FLIGHT EXPRESS, INC.  
B & C SPECIALTY PRODUCTS  
OPS CHECK B425 ALTERNATOR

AIRCRAFT NO: 61496 DATE: 01/03/11 TACH: 7059.8 ACTT: 12,014.7

- 1 - ASSURE THAT THE "STBY ALT" AND "STBY ALT SENSE" CIRCUIT BREAKERS AND "STBY ALT" MASTER SWITCH ARE IN THE "ON" POSITION. pub
- 2 - REDUCE SYSTEM ELECTRICAL LOADS TO APPROX 10 - 15 AMPS. pub
- 3 - SET ENGINE TO 2000 RPM MINIMUM. pub
- 4 - SWITCH PRIMARY ALTERNATOR FIELD SWITCH TO OFF. pub
- 5 - CHECK THAT THE "STBY ALT ON" ANNUNCIATOR LIGHTS pub
- 6 - INCREASE THE ELECTRICAL LOAD TO OVER 20 AMPS. THE "STBY ALT ON" ANNUNCIATOR LIGHT SHOULD BE BLINKING. REDUCE THE ELECTRICAL LOAD TO LESS THAN 20 AMPS. THE "STBY ALT ON" ANNUNCIATOR SHOULD BE ON STEADILY. pub
- 7 - SWITCH THE PRIMARY ALTERNATOR FIELD SWITCH TO ON. THE "STBY ALT ON" ANNUNCIATOR SHOULD GO OFF. pub
- 8 - RETURN THE ENGINE TO IDLE RPM. pub

AUTHORIZED  
SIGNATURE:

[REDACTED]

CERTIFICATE#:

[REDACTED]



Engine Discrepancy Record

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Aircraft N: 6149B Date: 01/03/11 Tach: 7059.8 TSMO: 1215.2

ITEM	DISCREPANCY	CORRECTIVE ACTION		NAME	CERT.	INSP.	TIME	
1	Compression Results	#1-72	#2-74					
		3-74	4-72					
		5-76	6-74 / 80					
							01/03	
2	Drain Engine Oil	DRAINED ENGINE OIL						
							01/03	
3	Remove & Inspect Filter Element	REMOVED & INSPECTED						
		NO DEFECTS NOTED						
							01/03	
4	Safety Oil Drain Plug	Installed oil drain plug with new gasket and socketed.						
							01/04/11	
5	Service Engine Oil	Serviced engine oil with 10qts of AeroShell W65.						
							01/04/11	
6	Install & Safety New Oil Filter	Installed new oil filter element, torqued to 17 Ft/Lbs and socketed.						
							01/04/11	
7	Service Spark Plugs	Cleaned, inspected, gapped, numbered and installed spark plugs. Torqued to 30 Ft/Lbs.						
							01/04/11	
8	Install Spark Plug Leads	Installed spark plug leads.						
							01/04/11	
							TOTAL TIME	

# FLIGHT EXPRESS INCORPORATED

# CPS



## Engine Discrepancy Record

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Aircraft: N: 6149B Date: 01/03/11 Tach: 7059.8 TSMO: 1215.2

ITEM                      DISCREPANCY                      CORRECTIVE ACTION

9	VACUUM RELIEF	Replaced vacuum reliefs filter.	NAME	[REDACTED]	
	FILTER DUE CHANGE		CERT.		
			INSP. <u>AS</u> TIME <u>01/03/11</u>		

10	INDUCTION AIR FILTER	Replaced Induction Air filter Adel clamp.	NAME	[REDACTED]	
	ADEL CLAMP BROKEN		CERT.		
			INSP. <u>AS</u> TIME <u>01/03/11</u>		

11	RETORQUE FWD ENL	Re torqued fwd engine case through bolts on TKS Bracket.	NAME	[REDACTED]	
	CASE THRU BOLTS ON		CERT.		
	TKS BRACKET		INSP. <u>AS</u> TIME <u>01/03/11</u>		

12			NAME		
			CERT.		
			INSP.	TIME	

13			NAME		
			CERT.		
			INSP.	TIME	

14			NAME		
			CERT.		
			INSP.	TIME	

15			NAME		
			CERT.		
			INSP.	TIME	

16			NAME		
			CERT.		
			INSP.	TIME	

TOTAL TIME	
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**FLIGHT EXPRESS, INC.**

**ENGINE LOG**

**CESSNA T210 SERIES**

**N6149B**

**CONTINENTAL IO-550-P(8)B**

**S/N: 821115 - R**

**INSTALLED: 03/18/09**

**TACH: 5844.6**

**AIRCRAFT TOTAL TIME: 10799.5**

**TIME IN SERVICE:**

**NOTES:**

DATE LAST O/H:01/24/09  
TIME SINCE NEW:0000.0

*Removed 3-8-11 Hobbs 7148.1*

*Act 12,103.0 TSO 1303.5*

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FLIGHT EXPRESS, INC.  
ACCESSORY REMOVAL & INSTALLATION LOG

AIRCRAFT NO: 6149B L/H \_\_\_\_\_ R/H \_\_\_\_\_

Serialized Numbered Parts, Maintenance Log and Parts Used Sheet

This form will be used on any and all parts that have serial numbers, cores and/or is subject to warranty.

REMOVAL

Date Removed 03 / 17 / 09 Tach Time Removed 5844.6  
Part Number F0550P2 S/N 821036R  
Description of Part Engine  
Reason for Removal Timed out  
Mechanic Removing Part (Please Print) Ron Brown  
(Signature) \_\_\_\_\_ Certificate # \_\_\_\_\_

(Please make sure that the core is returned to the Parts Department with completed green tag.  
Please call the Parts Department in Orlando if not sure on some cores)  
(If the part was returned to stock as serviceable, then attach a copy of the yellow tag)

INSTALLATION

Date Installed 03 / 17 / 09 Tach Time 5844.6  
Part Number F055P8B S/N 821115  
Description Engine OVH Date 01 / 24 / 09  
Log Book Entry: Removed & Replaced Engine as per manufacturer's specs & Flight Express Inc C210P2 Engine Buildup and Installation Log Book Entry. Run, Adjusted, and headed checked good. - End  
Mechanic Installing Part (Please Print) Ron Brown  
(Signature) \_\_\_\_\_ Certificate # \_\_\_\_\_

INSPECTED BY:  R

(Please attach completed warranty card & 8130 or yellow tag, etc. if applicable)

Location: (✓) ORL \_\_\_\_\_ BNA \_\_\_\_\_ CPS ✓ LUK \_\_\_\_\_ TPA \_\_\_\_\_