



Continental Motors

ENGINE EXAMINATION REPORT

ENGINE MODEL	IO550C
ENGINE SERIAL NUMBER	284595
AIRCRAFT MAKE & MODEL	Beech Craft 58 Baron
AIRCRAFT SERIAL NUMBER	TH-1939
AIRCRAFT REGISTRATION	N31EW
FILE NUMBER	14-241

NAME	SIGNATURE	DATE
Phillip Grice		03-31-2015

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EXAMINATION		ACCIDENT DATA	
DATE	03-31-2015	NTSB ACCIDENT #	CEN15FA009
FACILITY	CMI Mobile	NTSB INVESTIGATOR	John Brannen
ADDRESS	2039 Broad Street Mobile, Alabama 36615	FAA INVESTIGATOR	Mike Machnik
		ACCIDENT DATE	10/12/2014
		ACCIDENT LOCATION	Palos Hills, IL.

ENGINE INFORMATION

ENGINE POSITION	Right
TOTAL TIME	1869.1 from last air frame log entry Dated 10/08/2014
TIME SOH	90.9 from last air frame log entry Dated 10/08/2014
TYPE & TIME SLI	Oil Change @1826.5 42.6 hours
BUILD DATE	11/17/1999
IN SERVICE DATE	06/17/2000

Significant logbook information:

Engine was overhauled and tested by Custom Airmotive October 1, 2013 @ 1776.1 Total time. Installed in aircraft May 12, 2014. Two oil changes were completed one at 18.4 Hours SMOH and one @ 48.3 hours SMOH. Hobbs time during a tire change on the airframe was 1869.1 dated 10/08/2014.

Report Summary:

Search Code(s):

15-12-68

The engine was heavily damaged from impact forces which fractured the crankcase and separated the propeller flange. The oil sump was crushed upward and the lower portions of the cylinders, push rod tubes, push rods were impact damaged. The crankshaft, connecting rods, rod bearings and main bearing exhibited normal operating signatures. The remainder of the internal components exhibited normal operating signatures. The magnetos, fuel system components, vacuum pump, oil cooler, oil pump were inspected and exhibited impact damage and normal operating signatures. With the exception of the impact damage there were no anomalies that would have prevented the engine from producing rated power.

Disposition of engine following exam:

Engine was returned to Poplar Grove Airmotive .shipper request AD00786 on 04-01-2015

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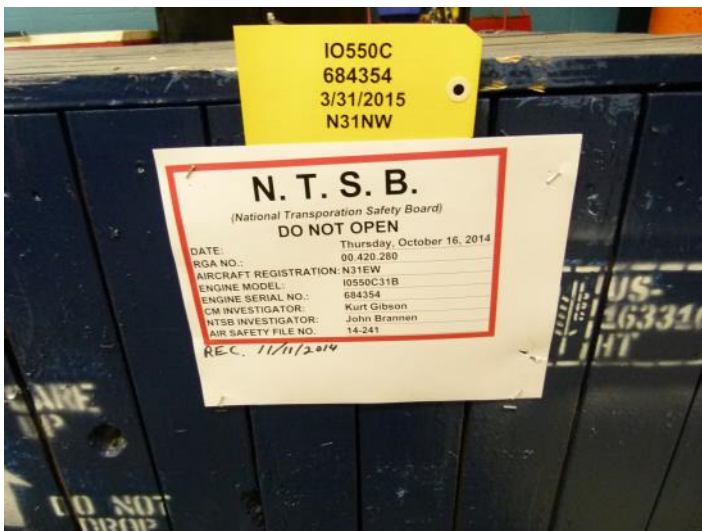
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INSPECTION WITNESSES

NAME	Phillip Grice	NAME	Johnny Little
ADDRESS	Mobile, Alabama	ADDRESS	Mobile, Alabama
ORGANIZATION	Continental Motors	ORGANIZATION	Continental Motors
PHONE	██████████	PHONE	██████████
NAME	Greg Eastburn	NAME	John Brannen
ADDRESS	Mobile, Alabama	ADDRESS	NTSB Central Region
ORGANIZATION	Continental Motors	ORGANIZATION	NTSB
PHONE	██████████	PHONE	██████████

EXTERNAL INSPECTION OF ENGINE



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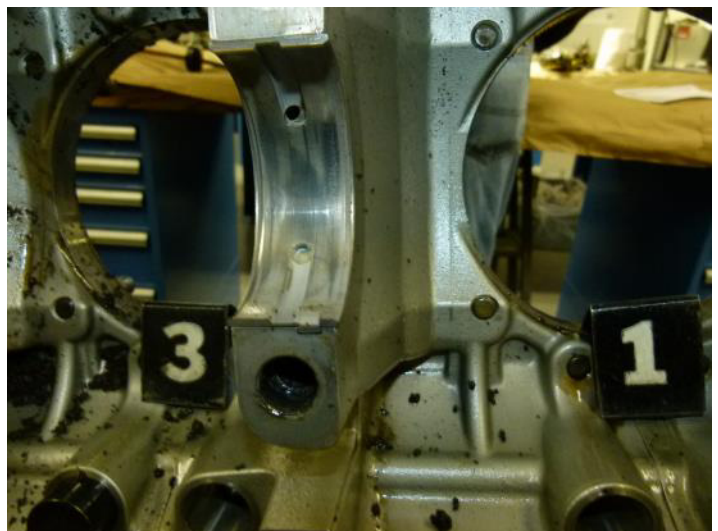
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INTERNAL INSPECTION OF ENGINE



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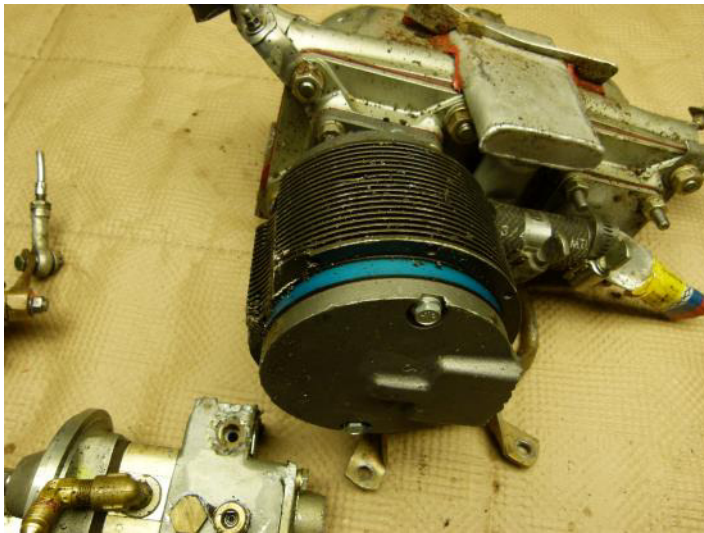
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