

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

June 1, 2012

AIRWORTHINESS

Group Chairman's Factual Report

WPR11MA454

Attachment 4 – Maintenance Records
(20 pages)

AIRCRAFT DESCRIPTION


Manufacturer North American Place _____ Date _____
License No. N 79111 Type F-51 D Serial No. 44-15657
Description _____

Reconstructed By _____ Place _____ Date _____

Seating Capacity (Crew Included) _____ Weight Empty _____ Weight Loaded _____

Wing Area _____ Sq.Ft. Control Area _____ Sq.Ft. Span _____ Length _____

Tires Main _____ Tire Tail _____ Brakes _____

Owner Clifford D. Cummins Address 
City Riverside State Calif. 92507

REMARKS

DATE

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

8-17-83 BASED ON EXAMINATION OF THE AIRCRAFT RECORDS, I FIND THAT THE AIRCRAFT MEETS THE REQUIREMENTS FOR THE CERTIFICATION REQUESTED AND HAVE ISSUED AN EXPERIMENTAL CERTIFICATE DATED AUGUST 17, 1983. THE NEXT ANNUAL INSPECTION IS DUE AUGUST 17, 1984.

AVIATION SAFETY INSPECTOR

NM-MIDO-47

8-16-84. This aircraft was inspected and found airworthy I/AW the scope and detail of Appendix D of FAR, Part 43. It is in condition for safe operation. A.D.S checked thru 84-12 A/c T.T, 1327.2 Trch Reads 113.9.

IA

REMARKS

DATE

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

7/20/85 This O/R was inspected in accordance with the scope & intent of appendix D of F.H.S. Part 43 and found to be airworthy at this time. It is in condition for safe operation. Q.D.s checked thru 84-12 Tail Leads 166.00.
Q/e Total Time 1379.3

APPROVED BY [REDACTED] QSP [REDACTED]

REMARKS

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

DATE

9/17/88 A condition inspection was performed on this aircraft and it was found airworthy according to the scope and detail of F.A.R. Part 43 appendix "D". ADs checked thru 88-16 A C T T 1422.5

[Redacted]

IA [Redacted]

I have inspected this AIRCRAFT I/A/W

The CONDITION requirements of F.A.R.

part 43 and Appendix G. As of this date,

I return it to service. Applicable AD's

checked thru B/W 89-15 Total time in

service 1428.9 Time _____

Date 8-30-89

Anthony C. Goetz Jr.

To [Redacted]

FLIGHT LOG

DATE	NATURE OF FLIGHT	No. of Pass.	TIME OF FLIGHT		TIME IN AIR		Miles Flown	REPAIRS — ADJUSTMENTS — REMARKS	SIGNATURE	LICENSE NUMBER
			Up	Down	Hours	Min.				

Work Accomplished on Air Racer

4/27/07-10/21/08

Steam clean wings & fuselage; prep wings & fuselage for paint; paint wing & fuselage interiors with Randolph epoxy primer; clean, prep & paint fuel bay doors; steam clean tailcone, prep & paint with green epoxy; prep & paint cowlings and fuselage fairings; install wing components overhauled by Dan Martin-landing gear actuators, downlock actuators, door actuators, L/G selector valve; MLG seals replaced & L/G painted by Dan Martin; install MLG in each wing and greased; join wing halves using new hardware; repair ailerons and wingtips; install wing hydraulic, fuel, and pitot plumbing; Custom Connections rewired wings and fuselage; engine mount stripped, inspected, painted and assembled; repair tail section forward bulkhead; remove fiberglass fuselage turtleback section and fabricate & install metal turtleback; fabricate & install removable floor section aft of seat for boilers; installed rebuilt tail gear components & fuselage components, trim console, rudder pedal assembly, forward instrument panel, flap control, throttle quadrant; wing halves mated and all hardware replaced; fuel tanks installed,

TOTALS FORWARD										
TOTALS TO DATE										

REMARKS

DATE

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

fittings & hoses installed and fuel tanks leak checked; firewall installed, rebuilt hydraulic tank installed, and fuselage plumbing installed; tail unit installed to fuselage; all hardware new; wing unit and fuselage joined; all fuselage to wing bolts replaced; main landing gear installed; fuel bay doors installed using new hardware; landing gear doors installed and rigged; wings sealed with filler and painted by Joe Hayes; installed rebuilt engine mount; installed modified oil tank; installed control stick & rebuilt pilots seat; fabricated & installed aft bulkhead cover behind pilot's seat; fabricated access panel forward of windscreen; rebuilt canopy operating mechanism; installed flap actuator, flap selector valve and fabricated flap actuator hoses so that boiler floor could be removed with components installed; prepped and painted wheels; hydraulic system tested, including operation of landing gear and flaps; horizontal stabilizer stripped, painted and all hardware replaced; vertical stabilizer stripped painted and all hardware replaced; repaired rudder and install new Stits fabric.

DAVID L. GOSS [REDACTED] A&P
[REDACTED]

FLIGHT LOG

DATE	NATURE OF FLIGHT	No. of Pass.	TIME OF FLIGHT		TIME IN AIR		Miles Flown	REPAIRS - ADJUSTMENTS - REMARKS	SIGNATURE	LICENSE NUMBER
			Up	Down	Hours	Min.				

WRISTON AVIATION F.A.A. C.R.S. R2FR683J

AIRCRAFT - North American PSD
 TAIL NO. - N79111
 TACH. TIME - 0.0
 Dynon : EFIS D-10A
 SW003870

The altimeter reporting system was checked for data correspondence to 20,000ft as per FAR 43 appendix E para C, no problems were found. Pitot / static systems both checked good.

I CERTIFY THAT THE ALTIMETER AND STATIC SYSTEMS TEST AS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED IN ACCORDANCE WITH FAR 43 APPENDIX E. THE ALTIMETER WAS TESTED TO _____ FEET ON _____ PERTINENT DETAILS OF THE TEST ARE ON FILE AT THIS AGENCY UNDER WORKORDER NO. _____
 DATE _____ SIGNED _____ FOR
WRISTON AVIATION C.R.S. No. [REDACTED]

I CERTIFY THAT THIS TRANSPONDER MAKE King MODEL 6726A S/N 30060 AS INSTALLED IN THIS AIRCRAFT HAS BEEN TESTED AS REQUIRED BY FAR 91.413 IN ACCORDANCE WITH FAR 43 APPENDIX F ON THIS DATE 8/28/09 TACH 0.0 PERTINENT DETAILS OF THE TEST ARE ON FILE AT THIS AGENCY UNDER WORKORDER NO. 090836
 DATE 8/28/09 SIGNED _____ FOR
WRISTON AVIATION C.R.S. No. [REDACTED]

(214)212-0499

TOT

TOTALS TO DATE

4/6/09 Ted

9/23/09
 Alan
 Th

REMARKS

DATE

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

9-16-09 Tach 0.0 TJ 1422.5

- Assembled aircraft in accordance with ANO1-605E-2.
- Installed Boiloff Cooling System for oil & Coolant Cooling - operational check good.
- I certify that this aircraft has been inspected on ~~9-16-09~~ 9-16-09 in accordance with the scope and detail of Appendix D of part 43 and found to be in a condition for safe operation.

AP [REDACTED]

9/22/09 I certify that the prescribed Flight Test hours have been completed and the aircraft is controllable throughout its normal range of speeds and throughout all

REMARKS

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

DATE

maneuvers to be executed, has no hazardous operating characteristics or design features and is safe for operation.

9-10-10 TT 1436.7

Repaired. Installed generator P/2 slw A31341 - see S+T tag - Installation IAW P-510 Erection & Maintenance Manual. Operational check good.

AWD

29 July 2011

44-15651

"I have inspected this airframe per the scope and detail of 43.13 appendix D and found it to be in a condition for safe flight."

David Woods

N79111

TT 1449.2

ENGINE RECORD - GENERAL INFORMATION

MANUFACTURER Rolls Royce MODEL V-1650-9A

SERIAL V 381910 TYPE CERTIFICATE —

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT P-51D (MODIFIED) N 79111

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

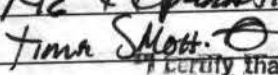





SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

The Standard



ENGINE LOG

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				<p>8-27-82 Annual Inspection Completed this Date. Check the Certificate for Reg # Operation. TACH Reads 73.03 Time Short. </p> <p>I certify that this  has been inspected in accordance with a Annual Inspection and was determined to be in airworthy condition.</p> <p> AT </p>
				<p>8-16-84 - Tach Reads 113.9. TSMOH 15.7 Engines inspected in accordance with the Condition Requirements of Appendix "D" of FAR PART 43 AND FOUND in condition for safe flight ADs checked thru 84-12</p> <p></p> <p>IA </p>

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1985				
9-7-88				<p>A condition inspection of this engine was performed and found satisfactory according to the scope and details of F.A.R. Part 43 appendix "D" A.D. checked thru 88-16. Engine TT 209.2 TSMOH 4.5</p> <p>[Redacted Signature]</p> <p>FA [Redacted]</p>
				<p>I have inspected this engine I/A/W The condition requirements of F.A.R. part 43 and Appendix D. As of this date, I return it to service. Applicable AD's checked thru B/W 89.15 Total time in TSMOH 10.9 service 215.6 Tack Time _____ Date 8-30-89 Anthony C Goetz Jr [Redacted Signature]</p>

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS

Date	Total Time	Time Since Overhaul	Description
29 July 2011		44-15651 24.7	N79111
"I have inspected this propeller per the scope and detail of 43.13 appendix D and found it to be in a condition for safe flight."			
David Woods			

Next Inspection Due: _____ Mech. Cert. # or Repair Station # _____

Date	Total Time	Time Since Overhaul	Description
7/4/11			DYNAMICALLY BALANCED PROPPELLER WITH ACES 2000 PRO BALANCER. INITIAL VIBRATION OF .04 I.P.S. WAS REDUCED TO .04 I.P.S. BY ADDING 150g. WT TO BOLT #1, 35.7g WT. TO BOLT #2, 36.6g WT. TO BOLT #8. BALANCING WAS DONE AT 2000 ENGINE RPM

Next Inspection Due: _____ Mech. Cert. # or Repair Station # _____

Date	Total Time	Time Since Overhaul	Description

Next Inspection Due: _____ Mech. Cert. # or Repair Station # _____