



ENGINE MAINTENANCE RECORDS

Log No. A

Aircraft Registration No. N550GR

Engine Manufacturer Teledyne Continental

Model T0-550-N2B

Serial No. 683390

Date installed on aircraft 4-3-01

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

- Right
- Left
- Front
- Rear



AEROTECH PUBLICATIONS INC.
 PO BOX 1359 / SOUTHOLD, NY 11971-0965
 (631) 765-9375
 1-800-235-6444
 FAX: (631) 765-9359

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL <u>NEW</u>	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
7/6/01	6.0	6.0	6.0	FLIGHT TEST COMPLETED THIS DATE <u>7/6/01</u> FLIGHT LINE MANAGER <u>George R. Smith 224320085</u>
8-28-01	27.5	27.5	27.5	Changed oil & filter to Exxon Elite <u>George R. Smith 224320085</u>
5-4-02	51.0	51.0	51.0	Changed oil & filter to Exxon Elite Recharged nose strut w/ oil & air (NITROGEN) 3 1/2" <u>George R. Smith 224320085</u>
09/7/02	64.7	New	64.7	OIL FILTER ON 48109 AND OIL CHANGED. REPLACED (1) SPARK PLUG. OWNER ASSISTED ANNUAL ACCOMPLISHED IN ACCORDANCE WITH PERTINENT SECTIONS OF FAR 43.49 <u>AP2001050</u> <u>George R. Smith 224320085</u>
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. <u>AP2001050</u> Ron De Candia
09/07/02	65.1	65.1	65.1	MAINTENANCE CHECK FLIGHT ACCEPTABLE. CHECKED ALL SYSTEM OPERATIONS. <u>2132062</u>
11/29/03	97.3	97.3	97.3	SPARK PLUG GASKETS (12) PN M-674 REPLACED IDLE CUT OFF RISE ADJUSTED TO SPECIFICATION IAW SL-02-002 R/H MAG ADJUSTED SYNCHRONOUS WITH LH TO SPECIFICATIONS ENGINE OIL FILTER CH 48109 AND OIL CHANGED. OWNER ASSISTED ANNUAL ACCOMPLISHED IAW PERTINENT SECTIONS FAR 43.49 <u>AP2001050</u> <u>George R. Smith 224320085</u>
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION <u>AP2001050</u> Ron De Candia
1/14/04	97.8	57.8		MAINTENANCE CHECK FLIGHT ACCEPTABLE. CHECKED ALL SYSTEMS OPERATIONS. <u>2132062</u>

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3/20/04	98.7	98.7		COMPLIED w/ LANCAIR SB 01-003 FUEL PRESS XDCR & BOOST PUMP PUMP HOSE INSTALLATION. (INITIALS AND 929-27CAP) 635 896 & 635 900 TCM FITTINGS (REF 62106010-0004 REF 2662182010) PUMP HOSES / MS SISOBY FITTING (AW EB) (AD 2004-6-9) COMPLIED w/ LANCAIR SB 04-012 FUEL PRESS XDCR INSPECTION. REPLACED XDCR P155-300-54A & INSTALLED WAS 1922-01203 NUT CLAMP (SEE KIT PN CH 002) IAW KITCHROUZ INSTRUCTIONS. OPS CHECK C/W IAW CH 002. <i>[Signature]</i> 2081050 AP R. DE Candia
3/27/04	98.9	98.9		MAINTENANCE CHECK FLIGHT SATISFACTORY. <i>[Signature]</i> 2132002
7/2/04	99.5	99.5		REPLACED PN 646425 FUEL INJECTOR TUBE FOR NO.5 CYLINDER DUE TO CRACK (REF LANCAIR SB 01-003) WITH NEW PART (REF B130-3 W/ P62570). OPS CHECKS SATISFACTORY. INSPECTED 2055N S/N 68330 ENGINE FOR APPLICABILITY OF AD 2004-8-10 (CORRECT MSB S1 04-1 R1 3/04) NOT APPLICABLE BY PN 654929AN CYLINDER (TCR OER PN) <i>[Signature]</i> 2081050 AP

PIEDMONT HAWTHORNE
 1005 A Sycolin Road
 Leesburg Municipal Airport Leesburg, VA 20175
 Tel (703) 771-0188 FAX (703) 779-0435

DATE: 8/25/04
 MODEL: LL40-550FG
 R/N: N550GR
 S/N: 40015
 HOBBS: 110.5
 TTSN: 110.5
 ENGINE MODEL: 10-550N
 ENGINE SERIAL: 683390
 W/O: S004966 ENGINE

Complied with TCM SID 97-3B Procedures and specifications for adjustment of TCM continuous fuel Flow injection systems. Installed gauges into system. Found low unmetered and high unmetered pressures Low. Adjusted low and high unmetered pressure in accordance with SID. Adjusted idle and mixture In accordance with SID. Removed gauges. Ground run up and leak check satisfactory.

MAINTENANCE RELEASE
 MAKE LANCAIR MODEL LD 550N SERIAL 683300
 THE AIRCRAFT-AIRFRAME-ENGINE-PROPELLER OR APPLI-
 ANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN
 ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULA-
 TIONS AND WAS APPROVED FOR RETURN TO SERVICE PER-
 TINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
 AGENCY UNDER
 WORK ORDER # S004966 DATE 8-25-04
 AUTH. SIGN [Signature] TTJLD
 AIP 235 06 8455

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REPAIR ORDER 1993

SERVISABLE PARTS

MANUFACTURER

PART NAME

MODEL

PART NO.

SERIAL NO.

REMARKS: *Checked in flight*

ACCOMPLISHED

THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER 300 4993

DATE 09-17-04

TT 112.0

A.P.# 284065B

FORMED—

PERFORMING WORK

Under this work order,

MAINTENANCE RELEASE

MAKE TCM MODEL IO-550-N SERIAL 683390

THE AIRCRAFT-AIRFRAME-ENGINE-PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER 300 4993

DATE 09-17-04

TT 112.0

W/O: 3005104

A.P.# 284065B

10/1/04	112.0	110.5	112.0	MAINTENANCE CHECK FLIGHT UNSATISFACTORY	2132862
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1005 A Sycolin Road
 Leesburg Municipal Airport Leesburg, VA 20173
 Tel (703) 771-0188 FAX (703) 779-0495

DATE: 10/27/04
 MODEL: LC40-550FG
 R/N: 550GR
 S/N: 40-015
 HOBBS: 112.0
 TTSN: 112.0
 ENGINE MODEL: IO-550-N
 ENGINE SERIAL: 683390
 W/O: 3005104

Installed TCM Factory new cylinder p/n on: 655465a4 with new piston p/n on: 654857 and torqued in accordance with TCM SB96-7B. Fitted new set of STD ring per TCM Category 4 SID 97-4C. Used all New seals and gaskets. Washed down engine. Ground run up and leak check satisfactory.

MAINTENANCE RELEASE

MAKE TCM MODEL IO-550-N SERIAL 4005410

THE AIRCRAFT-AIRFRAME-ENGINE-PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER 300 5109

DATE 10-27-04

TT 112.0

A.P.# 235 06 8655

11/26/04	113.3		113.3	MAINTENANCE CHECK FLIGHT UNSATISFACTORY	2132862
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				TOTALS brought forward from previous page



1005 A Sycolin Road
Leesburg Municipal Airport Leesburg, VA 20175
Tel (703) 771-0198 FAX (703) 778-0435

DATE: 12/17/04
MODEL: COLUMBIA 300
R/N: 550GR
ACFT S/N: 40015
HOBBS: 113.3
ENG. MODEL: IO-550-N (2)
ENG. S/N: 683390
W/O: 5005270

Removed and replaced push rod tube seals for cylinder #3, p/n: 534610x2, p/n: 630286x2. Replaced 2 rocker cover gasket, p/n: 655705x2 for #3 cylinder and rocker arm bolt tab safety clips, p/n: 501867x4. All bolts torqued in accordance with SB 96-7B torque limits. Drained oil and serviced engine with 8 quarts of Aeroshell 80 mineral oil. Performed engine run. No problems noted at this time.

MAINTENANCE RELEASE

MAKE Columbia MODEL Columbia SERIAL 40015
THE AIRCRAFT-AIRFRAME-ENGINE-PROPELLER OR APPLI-
ANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN
ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS APPROVED FOR RETURN TO SERVICE PER-
TINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
AGENCY UNDER
WORK ORDER # 5005270 DATE 12-17-04
T.M. SIGN [Signature] TT 113.3

JAN 8 2005	113.3	113.3		<p>AEROSHELL 80 OIL CHANGE DUE AT 138.3 (DRAIN MINERAL OIL) HOT MAG CHECK C/W/D IAW TCM SB 653 CYLINDER HEADS + BARRELS INSPECTED IAW TCM 96-12 COMPRESSION IAW SB 0-3 # 72/80 # 27/80 # 373/80 # 472/80 # 57/80 # 672/80 OWNER ASSISTED ANNUAL ACCOMPLISHED IAW PERTINENT SECTIONS OF FAR 43.431 APR 20010501R OWNER: <u>[Signature]</u> 224520085 THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. APR 20010501R</p>
01/15/05	113.8	113.8		<p>MAINTENANCE CHECK FLIGHT UNSATISFACTORY - #3 CYLINDER OIL LEAK # LH VAC PUMP FAIL 2132862</p>
01/20/05	113.8	113.8		<p>REPLACED LH VACUUM PUMP COUPLER PN 82-00067 IAW AERW ACCESSORIES INC. 82-06768 COUPLING INSTRUCTIONS 82 SL-001 AND B130-3 #AAP4568/LANCAIR MM 37-10-00 2081050AP</p>
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1005 A Sycolin Road
 Leesburg Municipal Airport Leesburg, VA 20175
 Tel (703) 771-0188 FAX (703) 779-0435

DATE: 02/08/05
 MODEL: COLUMBIA 300
 R/N: 550GR
 S/N: 40015
 ENG. MOD: IO-550-N
 ENG. SERIAL: 683390
 HOBBS: 114.6
 W/O: S005270

Removed and reinstalled #3 cylinder with new gaskets. All hardware torqued in accordance with SB96-7B "torque limits". Cleaned, regaped and reinstalled spark plugs for #3 cylinder with new gaskets. Cleaned #3 cylinder, fuel injection nozzle. Flow tested. Test results are satisfactory. Reinstalled #3 fuel injection nozzle with new gasket. Leak checked, no leaks noted. Ground run Up and leak check no problems at this time.

MAINTENANCE RELEASE

MAKE Continental MODEL IO-550-N SERIAL 683390
 THE AIRCRAFT-AIRFRAME-ENGINE-PROPELLER OR APPLI-
 ANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN
 ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULA-
 TIONS AND WAS APPROVED FOR RETURN TO SERVICE PER-
 TINENT DETAILS OF THE REPAIR ARE ON FILE AT THE
 AGENCY UNDER
 WORK ORDER S005270 DATE 02-08-05
 WITH SIGN [Signature] TT 114.6
 A&P # 0.840668

FEB 9 2005	115.8	115.8		MAINTENANCE CHECK FLIGHT SATISFACTORY. NO OIL LEAK FROM NO. 3 CYLINDER NOTED AT THIS TIME. [Signature] 2132862
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Aero Sport Inc.

St Augustine, FL.
 Phone (904) 824-6230 / Fax (904) 824-4509

Continental IO-550-N2 s/n: 683390 N550GR
 3-2-05 Hobbs-118.5hrs. Eng TT-118.5 hrs. Rerouted and secured #1 cylinder fuel injector line.
 Completed TCM SID97-3B Fuel system adjustment.

[Signature] Bryan M Wood A&P254396757

Rowan County Airport

DATE: 3/8/05 REGISTRATION: N550GR
 TACH: 123.5

Removed and replaced left vacuum pump. Run-up and operational check was normal.
 "Pertinent details of the repair are on file under work order No. 0075"

[Signature] Charles W. Bostick

Charles W. Bostick
 A&P 245025691

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
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N550GR Model IO550-N2B S/N 683390 WO# M001572
 Sept 30, 2005 HM 169.2

Drained oil, cut open and inspected oil filter, no defects noted. Serviced engine with 8 quarts of Aeroshell 40W oil. Installed new CH48109-1 oil filter. Performed ground run up and satisfactory leak check. The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance Identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. END

Paul M. N... A&P 2830193

 PIEDMONT HAWTHORNE AVIATION, L.L.C., GREENSBORO, NC

RICHMOND JET CENTER
 5745 HUNTSMAN RD
 RICHMOND, VA 23250

Reg #: N550GR Make: Lancair Model: LC40-660
 Date: 12-28-2005 W/O #: 4-9166 Meter: 169.2 S/N: 40015

- Complied with an annual inspection I.A.W Columbia 300 M.M. Chap. 5 checklist.
 - Checked cylinder compression #1 60/80 #2 58/80 #3 60/80 #4 62/80 #5 59/80 #6 59/80. (Checks were done on cool engine)
 - Drained oil, removed filter and inspected. No contamination noted. Installed new Ch48109-1 filter and safetied. Serviced engine with 8 qts. Aeroshell 15W50. Ran engine, no leaks noted.
- This aircraft was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Details of this repair are on file at this agency under the work order listed above.

Paul M. N... A-P 2874122 JA

 Authorized Signature

PERFORMANCE AIRCRAFT MAINT. LLC.
 336-227-1668

N550GR LC40-550FG COLUMBIA 300 1-5-2006
 HOBBS 200.2 S/N 40015 ENGINE IO550N2B S/N 683390

PERFORMED COMPRESSION TEST 1. 74/80 2. 78/80 3. 75/80 4. 73/80 5. 78/80 6. 74/80

Edward Rucinski

 EDWARD RUCINSKI A&P 190461622IA

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1. Approving National Aviation Authority/Country: **FAA/UNITED STATES**

2. **AUTHORIZED RELEASE**
FAA Form 8130-3, AIRWORTHINESS

4. Organization Name and Address: **KELLY AEROSPACE POWER SYSTEMS, 2900 SELMA HWY.,**

6. Item:	7. Description:	8. Part Number:	9. Eligibility:
1	ALTERNATOR - OVERHAUL	ALX-9524 MOD/NO END	N/A

13. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM KELLY AEROSPACE CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER UT2 THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES ID COMPLIES WITH PPS-9001 LATEST REVISION
NOTE: THE FAA-PMA SHOWN ON THE DATA PLATE ONLY REPRESENTS FAA APPROVAL OVERHAUL PER KELLY AEROSPACE OE-A2 MANUAL DATED 5/1/03

WORK PERFORMED—
OF PERSON PERFORMING WORK

page

M001614

with 8 quarts of
n up and
ified above was repaired
to service. Pertinent

2830193

09/24/08	254.3	254.3	254.3	Removed alternator found to be causing false cells on storm scope. Installed and tested overhauled alternator on ALX-9524, sn G024024. <i>[Signature]</i> AP2777832
09/24/08	254.9	254.9	254.9	SERVICED WITH TETS. AEROSHELL 15W-50. CHANGED OIL FILTER CH 48109-1. RUN UP, NO LEAKS 97, Level 1631257

Performance Aircraft Maintenance LLC
336-227-1668

HORIZED RELEASE CERTIFICATE
FORM 8130-3, AIRWORTHINESS APPROVAL TAG

Continental Motors
PC #508
ama 36601

8. Part Number: 653141
12. Status/Work: NEW

Model: D-550N2B
9181- Retimed

[Signature]

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
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Performance Aircraft Maintenance LLC
336-227-1668

Date	Tail Number	Serial Number	Hobbs	Make	Model
02/07/2007	N550GR	40015	274.1	Columbia	LC40-550FG

Complied with Annual Inspection I/A/W Columbia 300 I.C.A. & Maint. Man. Ch. 5-20-00.
 - Engine differential compression results: 1) 70/80 2) 70/80 3) 72/80 4) 72/80 5) 62/80 6)70/80. Min. psi for conditions was 44 psi.
 - Drained engine oil, removed and inspected oil filter with no defects found. Installed new CH48109-1 oil filter and serviced engine with 8qt. of Aeroshell 15W50.
 - Cleaned fuel injector nozzles.
 - Rt mag repaired by Quality Aircraft Accessories, re-installed and timed to engine.
 This engine was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Details of the repair are on file at this agency under the work order # 70102. ---end---

Abner Tisdale
IA 430909064

Abner Tisdale



Western Shore Aviation

N6187 Resource Dr.
Sheboygan Falls, WI 53085
920.467.6151

N550GR (Lancair s/n 40015)

March 20, 2007

Hobbs: 290.4

Continental IO-550-N2B, s/n 683390

C/W SID 97-3B Adjusted Continuous fuel flow injection system. - Adjusted system Unmetered to 9 psi at 600 rpm with a 75 rpm rise. And Metered 20 psi at 2700 rpm and fuel flow was at 26 gal/hr. - Adjusted Idle RPM back to 700 RPM's after all adjustments.

Mech *Troy Van Sluys* Cert. # *A&P 399704858 IA*



Western Shore Aviation

N6187 Resource Dr.
Sheboygan Falls, WI 53085
920.467.6151

N550GR (Lancair s/n 40015)

October 30, 2007

Aircraft Hobbs time: 316.9

C/W Oil and Filter change, (insp. old filter) Serviced with Aeroshell 15w50 oil.

Mech *Troy Van Sluys* Cert. # *A&P 3241049 IA*

West Bend Air Inc. 330 Earl Stier Drive West Bend, WI. 53095
 Date: 8-14-2007 Aircraft: N550GR A/C Hobbs: 310.0

262-334-5603

Aircraft Logbook Entry

Installed new aircraft battery Gill P/N G-35S S/N G02344627.

Signed: *Troy Van Sluys*

----- END -----
 Certificate #: *A40357901572*

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