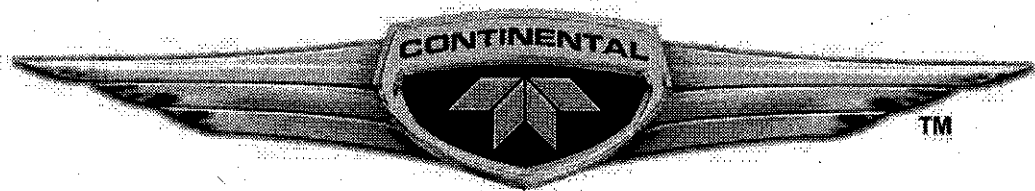
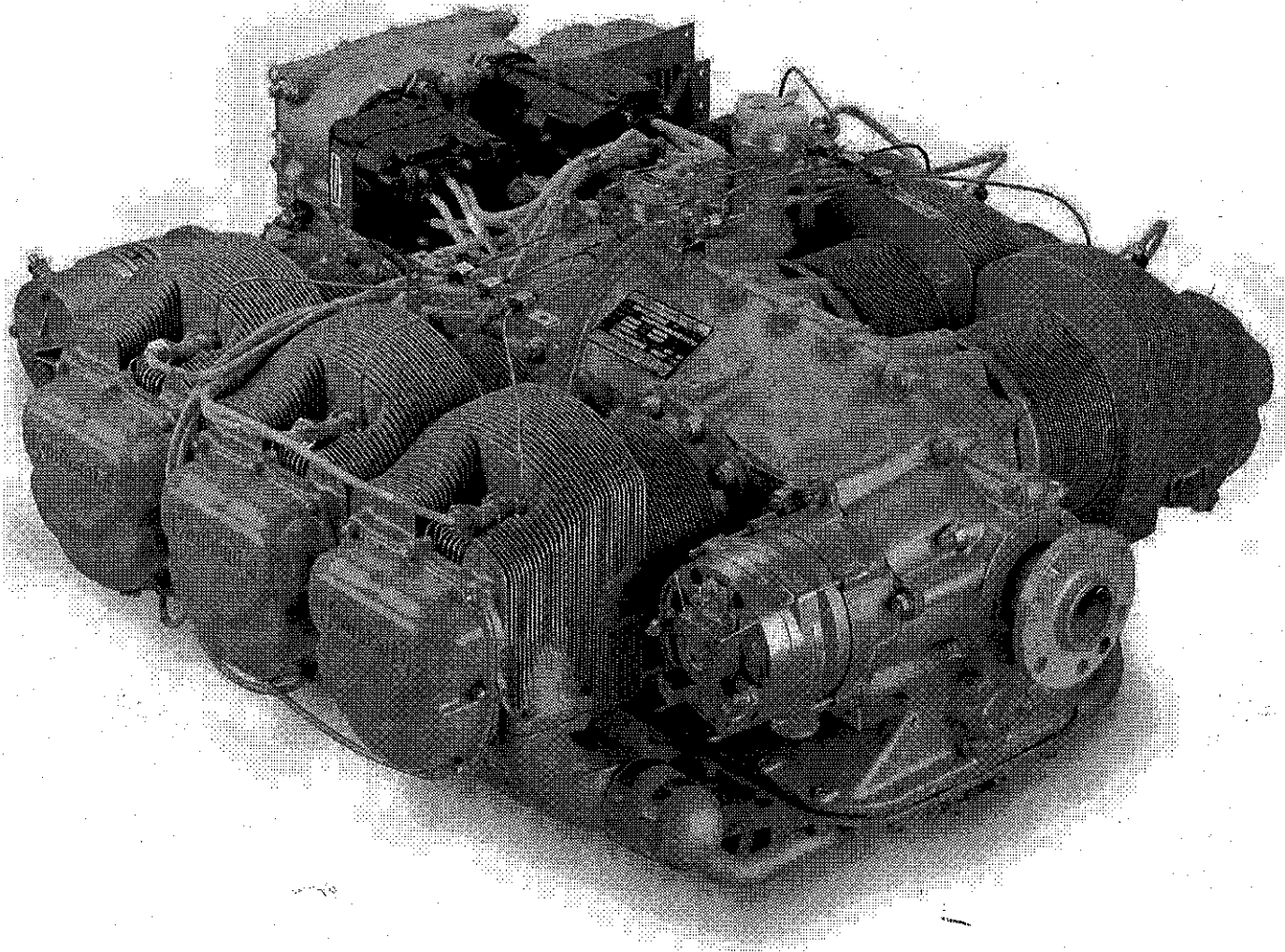


LANCAIR LEGACY N121J

ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
22 Apr '04	0	0	-NA-		Drained preservation oil per operator's manual. Re-filled with Aeroshell ^{OIL 100} 500 Straight Mineral Oil, 9qts. Drain plug replaced and safety-wired. W/Name
30 Apr '04	0	0	-		First start-up. Pre-oiled as per operator's manual. Run about 5 min, to CHT 200°±.
07 MAY '04	0	0			INITIAL FUEL INJECTION SYSTEM SETUP ACCOMPLISHED IN ACCORDANCE WITH TELEDYNE SERVICER INFORMATION DIRECTIVE SID 97-3A ADJUSTED Idle MIXTURE. SECURED LOCKOUT ON LOW PRESSURE Relief VALVE. [REDACTED] AF [REDACTED]
10 JUNE 04	50				REMOVED #6 Cyl DUE TO High OIL CONSUMPTION CYLINDER INSPECTED BY KURT NELSON, TCM TECH REP. No obvious DEFECTS NOTED BUT EXCESSIVE OILING CONFIRMED. CYLINDER REPLACED WITH NEW TCM CYLINDER ASSEMBLY WITH NEW PISTON RINGS, ROCKER SHAFTS AND GASKETS. CYLINDER BUILDUP AND INSTALLATION IN ACCORDANCE WITH TCM O/H MANUAL FOR IO 550 N. [REDACTED] AF [REDACTED]
8 July '04	11	2	-		Oil and filter changed Exxon Elite 20W-50 [REDACTED]
20 JUNE '05			-		OIL AND FILTER changed Exxon Elite 20W-50 [REDACTED] ATP [REDACTED]
22 Sept '05	75	6			OIL AND FILTER changed Exxon Elite 20W-50

ENGINE MODEL: IO-550-N
ENGINE S/N: 687922
REG. NO: 121J
WORK ORDER:
2394-10-2005



Top Gun Aviation, Inc.
6100 S. Lindbergh St.
Stockton, CA 95206
Phone: [REDACTED]

DATE: 10/31/2005
A/C TSN: 130
ENG TT: 130
TACH:

Engine Entries

(3) Installed Ignition Hall Sensor Plate after repair at Light Speed Engineering. Performed operational test of Ignition System. Tested OK.... (4) Installed Ignition Control Boxes after upgrade from Light Speed Engineering.... (5) Checked Ignition Timings and adjusted to 22° BTC.
Set Electronic Ignition IAW Light Speed Engineering Instructions.

I certify that this ENGINE is airworthy with respect to the work performed.

DATE: 10/31/2005

SIGNED: [REDACTED]

Thomas W. Richard, A&P [REDACTED]

Work Order: 2394-10-2005

Printed by EBIS 3 (datamedia.com)

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

SERVICES

e-13.9

For overhaul, overhaul performed by Eagle engines see Reinstalled starter adapter with new gasket and hardware. plugs. Changed oil and filter, serviced engine with EXXON 108-1 oil filter. Washed and ran engine.

..... Bob R. Bodden A&P [Redacted]

EAGLE ENGINES
 A Division of American Industries, Inc.
 FAA Repair Station Number NO3R747L
 20208 Chatsworth Dr., Redding, California 96002, U.S.A.
 Phone 1-916-221-4470

SERVICEABLE PART

MANUFACTURER: Teledyne Continental Textron Lycoming

PART NAME: Engine Cylinder Other [Redacted]

Part Model No. 654Z 083 A10


Part Serial No. 62NS

Remarks:

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward				




VICTOR AVIATION SERVICES, INC.
 P.O. BOX 50608
 PALO ALTO, CA 94303-0608
 F.A.A. CERTIFIED REPAIR STATION #BJ3R399L

A/C Reg. # N121J A/C Ser. # L2K-232 W.O. # 15926
 Engine Make TCM Model IO550EXPERIMENTAL
 Serial # EXP687922 Eng. T.T. S.M.O.H.
 A/F T.T. Hobbs Time Tach Time

1. Engine disassembled, cleaned, inspected, and repaired in accordance with the current overhaul manual for this model. Parts included, main bearings, connecting rod bearings, connecting rod nuts and bolts, seals, gaskets, piston rings and miscellaneous hardware.
2. Honed Cylinder bores. Machined Valves and Seats. Rebuilt 6 Rocker Arms.
3. Crankshaft certified MSB96-10 by Level III NDT. Crankcase overhaul by CSI.
4. TCM New Camshaft, Lifters, 2 Connecting Rods, 2 Piston Pins. Oil Cooler by Positech Inc.
5. Starter by Kelly Aerospace Power Systems. Starter Adapter by Canadian Aero Mfg.
6. The engine referenced above has been inspected and repaired in accordance with current Federal Air Regulations and has been determined to be in airworthy condition for the work performed. Pertinent details of the repair are on file at this agency under work order number 15960 dated 09/12/06. Engine test ran satisfactorily upon completion of work. This was not an engine overhaul.
7. Aircraft information and data to be entered by installing agency. Nothing follows.

Inspector [Redacted] Date 11/27/06
 For repair station of Victor Aviation Services, Inc.



VICTOR AVIATION SERVICES, INC.
 P.O. BOX 50608
 PALO ALTO, CA 94303-0608
 F.A.A. CERTIFIED REPAIR STATION #BJ3R399L

A/C Reg. # N121J A/C Ser. # L2K-232 W.O. # 15926
 Engine Make TCM Model IO550EXPERIMENTAL
 Serial # EXP687922 Eng. T.T. S.M.O.H.
 A/F T.T. Hobbs Time Tach Time

This engine is designated experimental due to the change of Oil Cooler part number 654580 installed on this engine. Original engine model IO550-N Spec 13, serial # 687922.

Magneto Timing: 22 Degrees
 H.P.T.O. 310 @ 2700 RPM
 H.P.M.C. 310 @ 2700 RPM
 Fuel: 100-100LL

Inspector [Redacted] Date 11/27/06
 For repair station of Victor Aviation Services, Inc.

TO PREVENT AN ENGINE FAILURE DUE TO A MISSING CYLINDER VALVE RETAINER KEY...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY ENGINE MODEL#: BJ3R399L
: : : : :
: : : : :
: : : : :
: : : : :
: : : : :

AD No: 94-01-03 R2 Eff.Date: 06-28-95
TO PREVENT MAGNETO FAILURE AND SUBSEQUENT ENGINE FAILURE...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY MAG SERIAL # : BJ3R399L
: : : : :
: : : : :
: : : : :

AD No: 94-06-09 Eff.Date: 05-20-94
TO PREVENT INJURY OR DEATH TO GROUND PERSONNEL DUE TO A NON-GROUNDED MAGNETO...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY MAG SERIAL # : BJ3R399L
: : : : :
: : : : :
: : : : :

AD No: 95-21-16 Eff.Date: 11-28-95
TO PREVENT DETONATION DUE TO LOW OCTANE, WHICH CAN RESULT IN SEVERE ENGINE DAMAGE...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY ENG MODEL # : BJ3R399L
: : : : :
: : : : :
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: : : : :

AD No: 99-19-01 Eff.Date: 09-30-99
TO PREVENT CRANKSHAFT FAILURE DUE TO CRANKSHAFT CHEEK CRACKS...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY CRANK SERIAL#: BJ3R399L
: : : : :
: : : : :
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AD No: 2000-23-21 Eff.Date: 12-12-00
TO PREVENT CRANKSHAFT FAILURE DUE TO CRANKSHAFT CONNECTING ROD JOURNAL...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY CRANK SERIAL#: BJ3R399L
: : : : :
: : : : :
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AD No: 2004-08-10 Eff.Date: 05-05-04
TO PREVENT LOSS OF ENGINE POWER DUE TO CRACKS IN THE CYLINDER HEAD AND POSSIBLE ENGINE FAILURE...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY CYL MFR-TCM : BJ3R399L
: : : : :
: : : : :
: : : : :

==== AIRWORTHINESS DIRECTIVES SECTION ===== RECURRING =====

AD No: 87-23-08 RECURRING Eff.Date: 11-30-87
TO PREVENT THE INSTALLATION OF CRANKSHAFTS WITH EXISTING SUBSURFACE FATIGUE CRACKS WHICH COULD RESULT...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : @ REMOVAL :LEVEL III NDT CERTFD: BJ3R399L
: : : : :
: : : : :
: : : : :

AD No: 2005-12-06 RECURRING Eff.Date: 07-19-05
TO PREVENT FAILURE OF THE MAGNETO COUPLING ASSEMBLY...

:Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
:11/27/06 :@RPR : N/A :N/A BY MAG PART # : BJ3R399L
: : : : :
: : : : :
: : : : :

END.

VICTOR AVIATION SERVICES
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616
F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L



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3. current Feder
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1. Starter by kel
0. TCM New Cal
9. Crankshaft cel
8. Honed Cylindr

VICTOR AVIATION SERVICES
P.O. BOX 50608
PALO ALTO, CA 94303-0608
(650) 856-7616
F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L



← Flight Forward	
Date	Total Time
Hrs.	Min.

Record inspections

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought For

ENGINE MODEL: IO-550-N
ENGINE S/N: 687922
REG. NO: 121J
WORK ORDER: 2798-08-2006

Top Gun Aviation, Inc.
6100 S. Lindbergh St.
Stockton, CA 95206
Phone: [REDACTED]

DATE: 12/21/2006
A/C TSN: 152.1
ENG TT: 151.1
HOBS: 17.1

Engine Entries
(5) Reinstalled IO-550-N S/N 687922 after repair by Victor Engines see wo# 15926.... (24) Completed 100hr/Annual inspection.

I certify that this ENGINE is airworthy with respect to the work performed.

DATE: 12/21/2006 SIGNED: [REDACTED] Work Order: 2798-08-2006
Mark T. Rouch, IA: [REDACTED] Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N
ENGINE S/N: 687922
REG. NO: 121J
WORK ORDER: 2986-01-2007

Top Gun Aviation, Inc.
6100 S. Lindbergh St.
Stockton, CA 95206
Phone: [REDACTED]

DATE: 1/23/2007
A/C TSN: 169.3
ENG TT: 168.3
HOBS: 34.3

Engine Entries
(1) Changed oil and filter, serviced 8 qts with Exxon Elite Gold 20W50GOLD. Removed oil cooler door, and actuating cable assy. Set up fuel flow.

I certify that this ENGINE is airworthy with respect to the work performed.

DATE: 1/23/2007 SIGNED: [REDACTED] Work Order: 2986-01-2007
Mark T. Rouch, IA: [REDACTED] Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N
ENGINE S/N: EXP687922
REG. NO: 121J
WORK ORDER: 3457-01-2008

Top Gun Aviation, Inc.
6100 S. Lindbergh St.
Stockton, CA 95206
Phone: [REDACTED]

DATE: 3/4/2008
A/C TSN: 225.2
ENG TT: 225.2
HOBS: 90.2

Engine Entries
(3) Installed Aero Supercharger Solutions Supercharger kit for Continental Engines IAW Aero Supercharger Solutions Instructions revised 10/12/06. Performed ground runup and fuel flow adjustment. Ops checked OK. Weight and Balance revised.... (7) Modified baffle in front of oil cooler to allow more air flow to oil cooler IAW Aero Supercharger Solutions drawings.... (11) Performed differential pressure test of cylinders. 1) 70/80, 2) 70/80, 3) 70/80, 4) 72/80, 5) 70/80, 6) 70/80.... (12) Changed oil and filter. Serviced engine with 8 qts Exxon Elite Gold 20W50. Installed and saftied a new oil filter. Inspected old filter element. Leak checked OK.... (13) Cleaned, inspected, gapped, test fired and rotated spark plugs.... (19) Fitted and installed front baffle kit from Aero Supercharger Solutions and fitted baffle seals.... (23) Installed proper fittings and gaskets to allow pressurization of magnetos.... (27) Completed 100hr/Annual inspection.

I certify that this ENGINE is airworthy with respect to the work performed.

DATE: 3/4/2008 SIGNED: [REDACTED] Work Order: 3457-01-2008
Thomas W. Richardi, IA: [REDACTED] Printed by EBis 3 (datcomedia.com)

N121J Lancair Legacy S/N L2K 232 Hobbs: 179.1 04/01/09

Performed 100 Hour/Annual Inspection to this engine at this time. Changed engines oil and filter. Cleaned, gapped and rotated all spark plugs. Compression check as follows; 1= 70/80, 2= 71/80, 3= 69/80, 4= 70/80, 5= 70/80, 6= 70/80. Cleaned all fuel injectors and reinstalled with new o-rings as required. Inspection overall engine installation for damage and security. Engine ground run, ops and leak checks good. I certify that this engine has been inspected IAW a 100 Hour/Annual inspection and was determined in airworthy condition. Approved for return to service.

[REDACTED] P [REDACTED]

Richard C. Strand **Carson Valley Aircraft Services**
2177 Taxiway F, Hanger B-5
Minden, Nevada 89423

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				



VICTOR AVIATION SERVICES, INC.
P.O. BOX 50608
PALO ALTO, CA 94303-0608

F.A.A. CERTIFIED
REPAIR STATION #BJ3R399L

A/C Reg. # N121J A/C Ser. # L2K232 W.O. # 16418
 Engine Make T.C.M. Model IO550EXPERIMENTAL
 Serial # EXPERIMENTAL Eng. T.T. _____ S.M.O.H. "0"
 A/F T.T. _____ Hobbs Time _____ Tach Time _____

1. Engine power section major overhauled in accordance with the current manufacturer's overhaul manual for this model, with serviceable crankshaft and overhauled P.015 Cylinders.
2. Camshaft replaced with modified camshaft.
3. Internal engine parts cryogenically treated and tested.
4. Exhaust system ceramic coated.
5. No accessories overhauled at this time.
6. See rear of log for A.D. listing.
7. The engine identified above has been overhauled and is intended for experimental use only, it is not intended for use in a certified aircraft. See work order 16407 dated 5/8/09 for details.
8. Engine test ran satisfactorily.
9. Aircraft information to be entered by installing agency. Nothing follows.

Inspector [Redacted] Date 6/12/09
 For repair station of Victor Aviation Services, Inc.

CAUTION

DO NOT USE DETERGENT OIL
 IN THIS ENGINE
 UNTIL OIL CONSUMPTION STABILIZES AND
 APPROVAL HAS BEEN GIVEN BY
 VICTOR AVIATION SERVICES INC.

Victor Aviation Services Inc.
 FAA Certified Repair Station #BJ3R399L

Date

Total Time

Time Since

Maintenance Record

s Directives, Special Inspections,

AD FILES CURRENT AS OF 06/16/09 POWER SECTION ONLY REFERENCE WO: 16418
 MFG: TELEDYNE MODEL: IO550(N)EXPERIMENTAL SERIAL #: EXPERIMENTAL
 ENGINE: 310 HP ENGINE TT: "N/A" SMOH: "0"

=== AIRWORTHINESS DIRECTIVES SECTION ===== NON-RECURRING =====

AD No: 88-03-06 Eff.Date: 04-15-88
 TO PREVENT POSSIBLE LOSS OF ENGINE OIL AND SUBSEQUENT
 ENGINE FAILURE...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY MFR-CHAMPION : BJ3R399L :
 : : : : : :

AD No: 91-19-03 Eff.Date: 09-29-97
 TO PREVENT OPERATION WITH COLLAPSED OIL FILTER ELEMENTS,
 WHICH CAN RESULT IN LOSS OF OIL PRESSURE...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY FILTER PART #: BJ3R399L :
 : : : : : :

AD No. 93-08-17 Eff.Date: 08-23-93
 TO PREVENT AN ENGINE FAILURE DUE TO INCORRECT OIL PICKUP TUBE...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY ENG MODEL # : BJ3R399L :
 : : : : PER MSB91-10 R1 : :
 : : : : : :

AD No: 93-10-02 Eff.Date: 08-12-93
 TO PREVENT AN ENGINE FAILURE DUE TO A MISSING CYLINDER
 VALVE RETAINER KEY...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY ENGINE MODEL#: BJ3R399L :
 : : : : PER TCM MSB93-12 : :
 : : : : : :

AD No: 99-19-01 Eff.Date: 09-30-99
 TO PREVENT CRANKSHAFT FAILURE DUE TO CRANKSHAFT CHEEK CRACKS...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY CRANK SERIAL#: BJ3R399L :
 : : : : : :

AD No: 2000-23-21 Eff.Date: 12-12-00
 TO PREVENT CRANKSHAFT FAILURE DUE TO CRANKSHAFT CONNECTING ROD
 JOURNAL...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY CRANK SERIAL#: BJ3R399L :
 : : : : : :

AD No: 2004-08-10 Eff.Date: 05-05-04
 TO PREVENT LOSS OF ENGINE POWER DUE TO CRACKS IN THE CYLINDER
 HEAD AND POSSIBLE ENGINE FAILURE...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY CYL MFR-TCM : BJ3R399L :
 : : : : : :

AD No: 2007-16-10 Eff.Date: 08-23-07
 TO PREVENT THE TURBINE ROTOR FROM SEPARATING...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : N/A :N/A BY APPLICATION- : BJ3R399L :
 : : : : VORTECH SUPERCHARGER: :
 : : : : : :

=== AIRWORTHINESS DIRECTIVES SECTION ===== RECURRING =====

AD No: 87-23-08 RECURRING Eff.Date: 11-30-87
 TO PREVENT THE INSTALLATION OF CRANKSHAFTS WITH EXISTING
 SUBSURFACE FATIGUE CRACKS WHICH COULD RESULT...
 :Comp.Date: Hrs : Next Due :Method of Compliance: Auth. Signature & Number:
 :06/16/09 :@O/H : @ REMOVAL :NDT ULTRASONIC INSP : BJ3R399L :
 : : : : : :

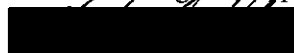

END.

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward

N121J Lancair Legacy Hobbs: 184.3 TTAF: 319.3 07/20/09

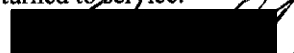

Installed this engine on N121J, Lancair Legacy S/N L2K-232 following overhaul by Victor Aviation Services. Serviced engine with 8 Quarts Aeroshell W/100 strait mineral oil. Performed fuel injection system set-up procedures IAW TCM service information directive SID97-3D. Initial ground run, break-in and test flight procedures performed in accordance with TCM service bulletin M89-7R. Engine ground run, ops and leak checks good. Approved for return to service.

 AP 
Richard C. Strand

Carson Valley Aircraft Services
2177 Taxiway F, Hanger B-5
Minden, Nevada 89423

N121J Lancair Legacy Hobbs: 211.0 11/30/09

Drained engines oil and serviced with 8 Quarts Aeroshell w/100 plus oil. Installed new CH48108-1 oil filter. Cut old filter and inspected for contaminates. None noted. Engine ground run, ops and leak checks good. Returned to service.

 AP 
Richard C. Strand

Carson Valley Aircraft Services
2177 Taxiway F, Hanger B-5
Minden, Nevada 89423

N121J Hobbs: 219.6 TTAF: 354.6 12/02/10

Performed 100 Hour / Annual Condition inspection to this engine at this time. Compression check as follows; 1= 74/80, 2= 75/80, 3= 74/80, 4= 74/80, 5= 75/80, 6= 76/80. Cleaned, gapped and rotated all spark plugs. Checked magneto timing. Removed propeller, installed overhauled propeller Model MTV-9-D/183-50A, S/N 05203 with new "o" ring and nuts. Torqued nuts to 80 ft/lb per MT installation instructions. I certify that this Engine has been inspected in accordance with a 100 Hour / Annual condition inspection and was determined in airworthy condition.

 AP 
Richard C. Strand

Carson Valley Aircraft Services
2177 Taxiway F, Hanger B-5
Minden, Nevada 89423