

# AIRCRAFT MAINTENANCE RECORDS

**N99BR**

Continental IO-520-BB51

S/N: 830125-R

Logbook Start: 1/1/2022

# ENGINE LOG BOOK





# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

Date	Total Time	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK
<b>CARRIED FORWARD →</b>		

MAKE Beech  
MODEL A36  
S/N E-1688  
REG NO N99BR



**North Star Aviation, Inc.**  
FAA Cert: NUTR521L  
3030 N Airport Road  
Mankato MN 56001

W/O # MKT1246-07-2022  
DATE 07-22-2022  
A/C TT 3252.00  
A/C Tach  
ENG TT  
TSMOH

## Engine Entries

1 Drained oil. Removed oil filter cut open and inspected no defects noted. Installed new oil filter P/N CH48109-1 and safety wired. Serviced engine with 11 Qts Aeroshell 15W-50. Run up and leak check good.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

DATE 07-22-2022

SIGNED

Ryan Williams  
FAA Cert: NUTR521L

WORK ORDER MKT1246-07-2022

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**West Metro Aviation 1313 County Rd. 134 Buffalo, MN. 55313**

N99BR Continental IO-520-BB51: S/N 830125-R

8/22/2022 Hobbs 708.5

Performed Annual inspection I/A/W Beech Service Manual removed plugs cleaned, gaped and rotated. #5 lower plug replaced for bad resistance. Performed compression check #1 14/80 #2 70/80 #3 75/80 #4 60/80 #5 73/80 #6 66/80. Checked mag timing at 22 degrees B.T.D.C. Removed #1 cylinder for repair by Horizon Aircraft Service. Reinstalled repaired cylinder using all new gaskets and seals. Checked engine control stops and lubed cables. Run-up ops checked good. I certify that this engine has been inspected I/A/W an Annual inspection and was found to be in airworthy condition. Tom Beachem AP26615521A

MAKE: Beech  
MODEL: A36  
S/N: E-1688  
REG. NO.: N99BR



**North Star Aviation, Inc.**  
FAA Cert: NUTR521L  
3030 N Airport Road  
Mankato, MN 56001

W/O # MKT1692-01-2023  
DATE: 01-11-2023  
A/C TT: 3300.55  
A/C Tach: 3300.55  
ENG TT:  
TSMOH:

## Engine Entries

1 Drained oil. Removed oil filter cut open and inspected no defects noted. Installed new oil filter P/N AA48109-1 and safety wired. Serviced engine with 11 Qts Aeroshell 15W-50. Run up and leak check good. All work done in accordance with airplane maintenance manual

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

DATE: 01-11-2023

SIGNED:

Alex Thompson  
FAA Cert: NUTR521L

WORK ORDER: MKT1692-01-2023  
Printed by EBIS (EBISCloud.com)

MAKE: Beech  
MODEL: A36  
S/N: E-1688  
REG. NO.: N99BR



**North Star Aviation, Inc.**  
FAA Cert: NUTR521L  
3030 N Airport Road  
Mankato, MN 56001

W/O # MKT1832-03-2023  
DATE: 03-13-2023  
A/C TT: 3303.7  
A/C Tach: 3303.7

## Airframe Entries

1 Replaced cylinder #3 engine preheater band with new unit PN CH-3820L. Installed in accordance with Reiff Preheat Systems installation instructions. Operations check good.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

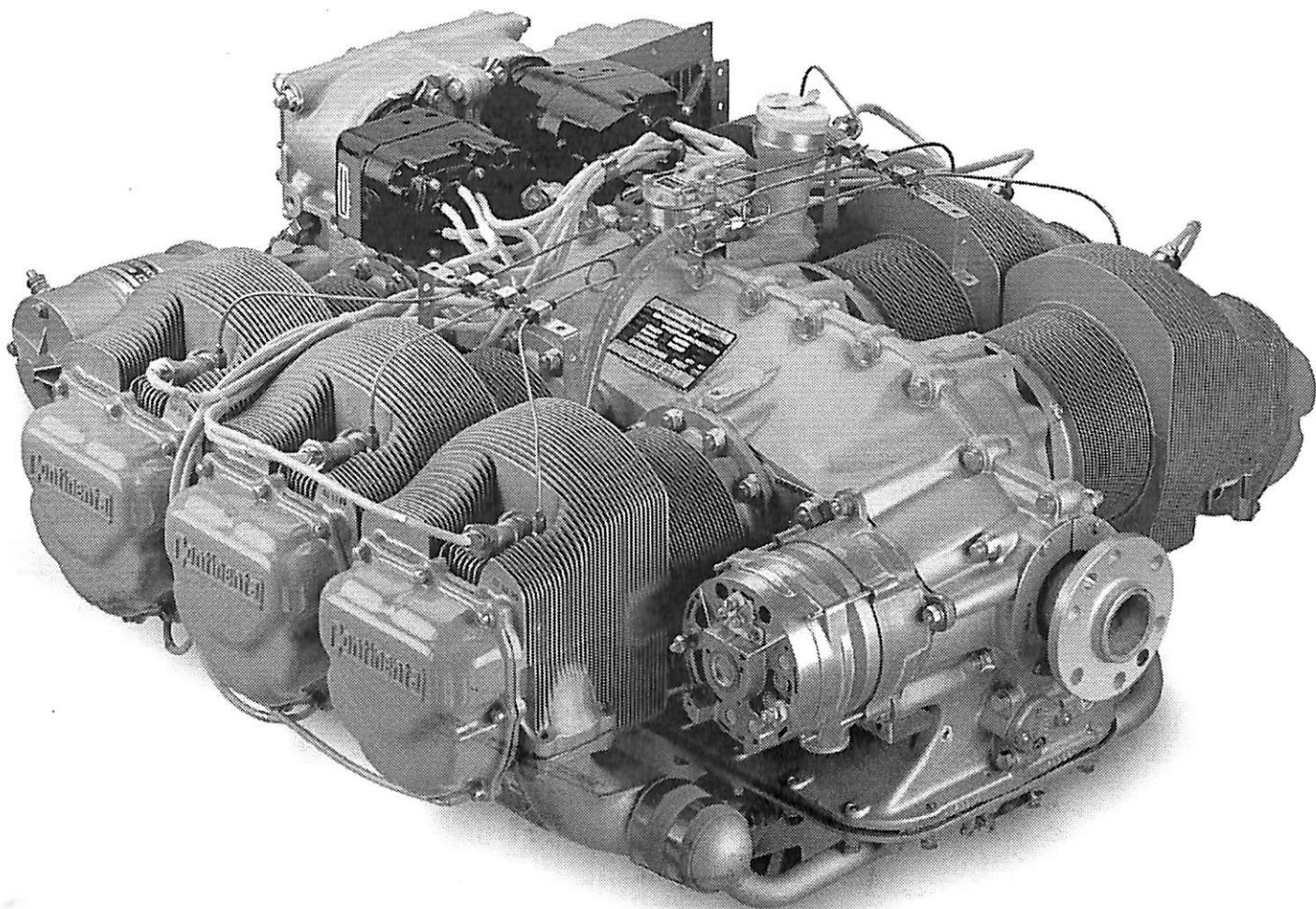
DATE: 03-13-2023

SIGNED:

Gabe Soehren  
FAA Cert: NUTR521L

WORK ORDER: MKT1832-03-2023  
Printed by EBIS (EBISCloud.com)

# • ENGINE LOG BOOK



**Teledyne Continental Motors, Inc.**

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

1 of 1

ENGINE MODEL  
ENGINE SN:  
REG NO: N996R  
WORK ORDER: MKT0777-12-2021



North Star Aviation, Inc.  
Repair Station No. NUTRS21L  
3030 N Airport Road  
Mankato, MN 56001  
Phone 507-625-8006

DATE: 10/29/21  
A/C TSN: 3192  
ENG T# 5916  
TSM#  
TAC#

### Engine Entries

(1) Drained oil. Removed oil filter cut open and inspected no defects noted. Installed new oil filter P/N CH48109-1 and safety wired. Serviced engine with 11 Qts Aeroshell 15W-50. Run in and leak check good.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTRS21L

DATE: 10/29/2021

SIGNED: *Jon Nieland*

Jon Nieland  
Certified Repair Station No. NUTRS21L

Work Order: MKT0777-12-20

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This Logbook closed as of:  
**12/31/2021**

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

**Engine Logbook**

Date: 4-27-18 A-36 N99BR S/N E-1688 HM 365.8 Tac 2966.3  
 Complied with a annual inspection FAA and current cont. manuals. Compressions, 1.80/62,2.80/68,3.80/60,4.80/68,5.80/64, 6.80/66. checked cylinders, faults noted. Checked fuel system, drained oil, removed oil filter,cut open, no debrie noted, replaced with new CH48109 filter and serviced with 12qts 15/50 aeroshell oil. Checked mags and timing. Cleaned, gapped and rotated all sparkplugs. Checked all wiring,hoses,ducts,baffles and engine controls. Engine degreased and ran and found ok. No AD's due at this time. I certify that this engine has been inspected in accordance with a annual inspection and found to be in a airworthy condition.

*O'Neal Soehren 37846253A*

**New Ulm Flight Service**

5/14/19 Tach: 3013 SNew: 533  
 Comp test: 62 68 58 68 72 60. Cleaned and gapped plugs. Removed mags for 500 hour inspection. Set internal timing and reinstalled. Replaced drive seal for standby generator. Changed oil and filter. Cut filter- no metal noted. Added Shell 15w50 oil. Replaced one stud on #2 cylinder exhaust. Leak and ops checked good.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

*Dan Soehren*  
 Dan Soehren 476668220AI



2301 University Dr, Bldg 53  
 Bismarck, ND 58504

Details of this work order are on file at BAC

Date: 5/02/2019; Aircraft: N99BR; Type: A36; S/N: E-1688; Hobbs: 420.30; Tach: 3011.10; Total Time:; LG Cycles:

Shop Order #: BAC-19-13190, Closed: 5/02/2019

1. Removed starter (P/N 655566F, S/N 041680031) and installed overhauled starter (P/N MHJ-4003, S/N 9022245). Starter overhauled by Aerotech of Louisville on their work order 125735. Operational check satisfactory.
2. Updated aircraft's weight and balance to reflect the starter change and provided a copy to the customer to place in his POH.

Matthew Kidd AP 3041982

MODEL	A36	NORTH STAR AVIATION	DATE	3/12/2020
SERIAL #	E-1688	3030 AIRPORT ROAD		
REG #	N99BR	MANKATO, MN 56001		
Hobbs	473.1	FAA REPAIR STATION NUTR521L		
Tach.		LOGBOOK INSERT	W/O	2739
Drained oil removed oil filter, cut open and inspected no defects noted. Installed new oil filter P/N CH48109-1 and safety wired. Served engine with 12 qts Aeroshell 15W-50. Run up and leak check good.				
The Aircraft, and/or component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file at this repair station.				
DATE <u>3/12/20</u> SIGNED: <i>Jon Wieland</i> Jon Wieland for North Star Aviation FAA CRS NUTR521L				

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

West Metro Aviation 1313 County Rd. 134 Buffalo, MN. 55313

N99BR Continental IO-520-BB51: S/N 830125-R  
 6/9/2020 Tach/Actt 3063.11; Ett 583.11; Esoh 583.11;

Performed Annual inspection I/A/W Beech Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 56/80 #2 51/80 #3 55/80 #4 65/80 #5 60/80 #6 66/80. Checked mag timing at 22 degrees B.T.D.C. Checked engine control stops and lubed cables. Run-up leak check ops checked good. I certify that this engine has been inspected I/A/W an Annual inspection and was found to be in airworthy condition.

Tom Beachem AP26615521A

MODEL	A36	NORTH STAR AVIATION	DATE	10/5/20
SERIAL #	E-1688	3030 AIRPORT ROAD		
REG #	N99BR	MANKATO, MN 56001		
		FAA REPAIR STATION NUTR521L		
Tach.	3105.45	LOGBOOK INSERT	W/O	3023
Drained oil removed oil filter, cut open and inspected no defects noted. Installed new oil filter P/N CH48109-1 and safety wired. Served engine with 12 qts Aeroshell 15W-50. Run up and leak check good.				
The Aircraft, and/or component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file at this repair station.				
DATE <u>10/5/20</u> SIGNED: <i>Jon Wieland</i> Jon Wieland for North Star Aviation FAA CRS NUTR521L				

1 of 1  
**North Star Aviation, Inc.**  
  
 Repair Station No. NUTR521L  
 3030 N Airport Rd.  
 Mankato, MN 56001  
 Phone: 507-625-6006

DATE 5/14/2021  
 A/C TSN  
 ENG TT  
 TSMOH  
 HOBBS 575 5

**Engine Entries**

(1) Drained oil removed oil filter cut open and inspected. No anomalies noted. Installed new oil filter P/N CH48109-1 and safety wired. Serviced engine with 12 qts Aeroshell 15W-50. Run up and leak check good.  
 (3) Removed and replaced fuel screen gasket with new P/N 649983 and safety wired IAW Continental Aerospace Technologies SB 20-01. Leak check good.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station #NUTR521L

DATE: 5/14/2021 SIGNED: *Derek Traxler* Work Order: 0145-05-2021  
 Derek Traxler Certified Repair Station No. NUTR521L  
 Printed by EBis 3 (datcomedia.com)

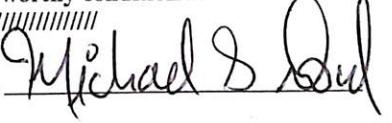
West Metro Aviation 1313 County Rd. 134 Buffalo, MN. 55313

N99BR Continental IO-520-BB51 S/N 830125-R

7/22/2021 Hobbs 584.0

Performed Annual inspection I/A/W Beech Service Manual removed plugs cleaned, gaped and rotated. Performed compression check #1 58/80 #2 51/80 #3 55/80 #4 63/80 #5 29/80 #6 60/80. Checked mag timing at 22 degrees B.T.D.C. Removed #2, #3 and #5 cylinders for repair by Horizon Aircraft Service. Reinstalled repaired cylinders using all new gaskets and seals. Checked engine control stops and lubed cables. Run-up ops checked good. I certify that this engine has been inspected I/A/W an Annual inspection and was found to be in airworthy condition. Tom Beachem AP26615521A

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
9/27/13	248	93	348	93	Tach 2829.13 Changed oil and filter. Installed CH48109-1 filter and serviced with 12 Qts Aeroshell 15W50 oil. Leak check complete. Mike Bennett A&P/IA 3114101
2/17/14	366	87	366	87	Tach 2847.07 Compression check #1 7/80 #2 60/80 #3 7/80 #4 62/80 #5 64/80 #6 60/80 Oil change not due until 2879.13 I certify that this engine has been inspected I.A.U. on Annual Inspection and has been determined to be in an airworthy condition Mike Bennett A&P/IA 3114101
3/31/14	369	30	369	30	Tach 2849.50 Changed oil and filter. Installed CH48104-1 filter and serviced with 12 Qts Aeroshell 15W-50. Leak check complete. Mike Bennett CFII 3114101
		KRUQ- Rowan County Airport 3680 Airport Loop Rd Salisbury, NC 28147 (704) 310-1421			
Make: Continental Date: 3-13-2015	N99BR Model: IO520BB51	SN: 830125-R Tach:2861.4			
No AD's due at this time. Compression, 1. 60/80 2. 65/80 3. 62/80 4. 60/80 5. 61/80 6. 58/60. Changed oil and filter, serviced oil and filter with new filter CH48109-1 and 12 qts of Aeroshell 15W50. Cut filter no metal noted. Cleaned, gapped and tested spark plugs, installed with new plug gaskets. Installed three new spark plugs. RHB 32E. Installed new induction air filter. Checked timing, magnetos to engine. Degreased engine and compartment. Removed and inspected and cleaned fuel injectors. Adjusted idle speed. Ground ran and leak checked no defects noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition //END// Michael S Doud A&P304660342 IA					

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
		KRUQ- Rowan County Airport 3680 Airport Loop Rd Salisbury, NC 28147 (704) 310-1421			
Make: Continental Date: 4-26-2016	N99BR Model: IO520BB51			SN: 830125-R Tach: 2912.3/ Hobbs: 302.1	
No AD's due at this time Compression, 1. 63/80 2. 60/80 3. 56/80 4. 70/80 5. 64/80 6.62/80. Bore scoped cylinders no faults noted. Changed oil and filter, serviced oil and filter with new filter CH48109-1 and 12 Qts of Aeroshell 15W50. Cut oil filter, no metal noted. Removed injectors and cleaned. Installed nine new spark plugs, RHB 32E. Removed plug bottom of case rear, sealed and reinstalled. Degreased engine compartment and engine. Ground ran and leak checked no defects noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition////////// //////////END////////// Michael S Doud A&P304660342 IA 					
					
Make: Continental Date: 4-21-2017	N99BR Model: IO520BB51			SN: 830125-R Tach: 2951/Hobbs: 346.9	
No AD's Due at this time Compression, 1. 63/80 2. 60/80 3. 60/80 4.70/80 5. 59/80 6.60/80. Bore scoped cylinders no faults noted. Oil changed by customer. Cut oil filter, no metal noted. Removed injectors and cleaned. Removed spark plugs, cleaned, gapped and tested. Degreased engine compartment and engine. Ground ran and leak checked no defects noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition////////// //////////END////////// Michael S Doud A&P304660342 IA 					
<b>Engine Logbook</b> Date: 4-12-18 A-36 N99BR HM 364.0 Removed inop vacuum pump and installed 0 SOH pump P/N 442CW S/N 178482. Aircraft and system checked ok. 					

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward					on annual Inspection and approved for return to service - Kirk Bennett A+p/IA 3114101
9/26/11	2720.55				Tach 2720.55 Changed oil and filter. Installed AA48109-1 filter and serviced with 12 Qts Aeroshell 15W-50 oil. Leak check complete. Kirk Bennett A+p/IA 3114101
1/18/12	300 95				Tach 2733.65 Compression CK #1 68/80 #2 68/80 #3 64/80 #4 73/80 #5 76/80 #6 70/80 Changed oil and filter. Installed CH48109-1 filter and serviced with 12 Qts Aeroshell 15W-50 oil. Leak check complete - I certify that this engine has been inspected I.A.W. an Annual Inspection and determined to be in an airworthy condition. Kirk Bennett A+p/IA 3114101
2/19/13	308 44	308 44			Aircraft: N6657M Tach: 2788.64 Date: 2/18/13 Compression Check #1 66/80, #2 61/80, #3 66/80, #4 65/80, #5 61/80, #6 71/80. Changed oil and filter. Installed CH48109-1 filter and serviced with 12 qts Aeroshell 15W-50. Leak check complete. I certify that this engine has been inspected I.A.W. an Annual Inspection and determined to be in an airworthy condition. Kirk Bennett A+p/IA 3114101

## Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

## Engine Returns

All returned engines are to be shipped with this log book  
Directly to:

Teledyne Continental Motors  
Abbeville Industrial Park  
Suite 159  
Abbeville, AL 36310

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Teledyne Continental Motors, Inc.  
A Teledyne Technologies Company

Printed: 11/26/2004

This engine model 10520BB51, Serial No. 830125 - R was manufactured on 11/22/2004 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.

*Thomas H. Howard*

TELEDYNE CONTINENTAL MOTORS  
A TELEDYNE TECHNOLOGIES COMPANY  
PRODUCTION CERTIFICATE NO. 508

LJ Aviation LCC Wallingford Rd. Danbury Airport Danbury CT. 06810 (203) 791-0610										
DATE	REG #	TACH	TTAF	ELT Due	TTE	SMOH	TP	PSMOH	XPOND Due	
18May05	N6657M	2480.2	2480.2	Jun207	0	0	2480.2	47.5	Overdue	

Annual Inspection performed in accordance with FAR 43 Appendix "D". All routine lube and servicing performed. Installed factory rebuilt engine TCM IO-520DD51, S/N 830125-R. Reinstalled prop after repair, reinstalled governor after repair, see appropriate logs for details. Engine serviced with 12 qts Phillips 20w50 Mineral oil. C/W Continental S.B. SID 97-3 fuel system adjustments. Engine ground run, leak and ops check satisfactory. AD 2004-08-10 N/A. See master AD list at appropriate section. I certify this engine has been inspected in accordance with an Annual Inspection and is in airworthy condition.

Louis J. Pugliese, Jr.  
A&P98541522IA

OCT. 3 2005 OIL CHANGED - TACH 2487.7  
11 QTS. 20-50W MINERAL -

LJ Aviation LCC Wallingford Rd. Danbury Airport Danbury CT. 06810 (203) 791-0610										
DATE	REG #	TACH	TTAF	ELT Due	TTE	SMOH	TP	PSMOH	XPOND Due	
31Mar06	N6657M	2530.3								

Oil and filter changed. Engine serviced with 11 qts 20W50 Exxon Elite and CH48109-1 filter. Old filter opened, no defects noted. Engine washed and ground run. Engine ground run, leak and systems check satisfactory.

Louis J. Pugliese, Jr.  
A&P98541522

LJ Aviation LCC Wallingford Rd. Danbury Airport Danbury CT. 06810 (203) 791-0610										
DATE	REG #	TACH	TTAF	ELT Due	TTE	SMOH	TP	PSMOH	XPOND Due	
18May06	N6657M	2532	2532	Jun207	0	0	2532	99.7	Overdue	

Annual Inspection performed in accordance with FAR 43 Appendix "D". All routine lube and servicing performed. Compressions 1) 78 2) 77 3) 75 4) 76 5) 78 6) 77 / 80. Oil and filter not changed this date. All spark plugs cleaned, gapped and tested. Engine ground run, leak and ops check satisfactory. See master AD list at appropriate section. I certify this engine has been inspected in accordance with an Annual Inspection and is in airworthy condition.

Louis J. Pugliese, Jr.  
A&P98541522IA

ACK EMMA LLC 1 Wallingford Rd. Danbury Ct. 06810 203-798-6622										
Date	Reg#	Tach	TTAF	ELT Due	TTE	SMOH	TP	PSMOH	Trans Due	
01June07	N6657M	2588.4	2588.4	June07	108.4		2588.4	156.1	DUE	

Annual Inspection performed in accordance with FAR 43 Appendix "D". All routine lube and servicing performed. Compressions 1) 78 2) 77 3) 75 4) 76 5) 78 6) 77 / 80. Oil and filter not changed this date. All spark plugs cleaned, gapped and tested. Engine ground run, leak and ops check satisfactory. See master AD list at appropriate section. I certify this engine has been inspected in accordance with an Annual Inspection and is in airworthy condition.

Ripley Quinby III  
A&P2294816IA

*Ripley Quinby III*

10-10-07	2606.9	Changed oil & filters, new CH48109 filter, serviced with 12 qts 15/50 gear oil. Oil and filter 247848121 A+