

G&N Aircraft, Inc. Engine Log Book

- Manufacturer
- Model
- Serial Number
- Engine Total Time
- Recommended TBO
- Minimum Octane Fuel

Important Notice to Installer

Even though this engine has been test run and set using our dynamometer it must be set in the correct manner and within the limitations as specified in the engine and airframe manufacturers service manuals when installed in the aircraft.

G & N AIRCRAFT, INC. / Limited Piston Engine Warranty

Effective 1/1/2006, G & N Aircraft, Inc., (hereinafter "G & N") makes the following warranty to its customer, subject to the limitations, conditions and exclusions set forth below.

WARRANTY COVERAGE - For a period of twelve (12) months after date of delivery to customer, G & N Aircraft, Inc. shall repair or replace, at its option, any aircraft engine, accessory, or part which is found to be defective, to G & N Aircraft, Inc.'s satisfaction, within said warranty period.

For engine warranty after twelve (12) months from the date of delivery to customer and prior to the expiration of the manufacturer's recommended time between overhaul ("TBO"), the cost of repair or replacement (including the cost of parts and labor), at G & N Aircraft's option, shall be prorated in the following manner: The customer shall pay a prorated amount based upon the engine's TBO and the engine hours (which shall be deemed the greater of logbook hours, recorded tachometer hours, or a minimum of forty (40) hour per month from date of delivery). For instance, an engine with a TBO of 2000 hours and with 200 hours of usage in a 12-month period would have a prorated warranty coverage of 60% applied to cost of a replacement engine or to the cost of parts and labor for repair of this subject engine, either of which shall be at the option of G & N Aircraft, Inc. Reasonable labor costs associated with the repair of a warranted engine shall be prorated in the same manner on the basis of a flat rate schedule established by G & N Aircraft, Inc.

After the initial twelve (12) months from date of delivery, G & N Aircraft, Inc. will not assume any responsibility for the repair or replacement of engine accessories, including but not limited to the following: magnetos, starter, alternator, ignition harness, turbocharger, carburetor, fuel injection, etc.

Replacement parts supplied for warranted engines still covered by manufacturer's warranty, or supplied on an exchange basis prepaid by customer, G & N Aircraft, Inc. will pursue warranty claims with the manufacturer on the owner's behalf. Any allowance in the manufacturer will be credited to the operator's account.

REQUIRED CONDITIONS AND PROCEDURES NECESSARY FOR OBTAINING WARRANTY WORK - The following conditions and procedures must be met before G & N Aircraft, Inc. is liable under the provisions of this written warranty. The foregoing warranty shall be effective only if the engine or component to be serviced is returned to G & N Aircraft, Inc.'s facility at customer's expense, together with a detailed description in writing of the nature of the defect. The customer or his representative should contact G & N Aircraft, Inc. for verification and authorization of warranty prior to return and/or repair. Written authorization

must be obtained from G & N Aircraft, Inc. before repairs covered by warranty can be performed other than by G & N Aircraft, Inc. In no event shall allowable repair costs exceed local published shop rates. This warranty shall apply if and only if the engine has been properly installed and maintained in accordance with current approved standards of the Federal Aviation Administration ("FAA") and current recommendations of the manufacturer as specified in applicable factory manuals and service bulletins. The performance of recommended inspections and maintenance must be documented by appropriate logbook entries which must accompany any engine returned for warranty work. Only defects which are reported to G & N Aircraft, Inc. within the warranty period are covered by this warranty and G & N Aircraft, Inc. must be given written notice, within ten (10) days after discovery.

LIMITATIONS, EXCLUSIONS, AND DISCLAIMERS - G & N Aircraft, Inc. shall not be liable for freight charges, transportation or delivery expenses, costs, or airframe repairs, all of which are excluded under this warranty. G & N Aircraft, Inc. does not warrant parts, materials or services supplied which are covered by manufacturer's warranty. This written warranty shall not apply to any engine which has been subject to misuse, neglect, accident or damage from the elements, or which has been installed, repaired or maintained or altered in any manner which, in the judgment of G & N Aircraft, Inc. has had an adverse effect on the engine or its parts. This warranty shall not apply to any engine which has been operated under conditions which exceed the manufacturer's recommendations. Unless prior approval is given in writing by G & N Aircraft, Inc., this warranty shall not apply to any engine which has been repaired or altered in any manner other than by G & N Aircraft, Inc. or its authorized representative.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESS OR IMPLIED ARISING BY OPERATION OF LAW OR OTHERWISE INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE WHICH WARRANTIES ARE HEREBY EXCLUDED. G & N Aircraft, Inc.'s liability hereunder shall be limited to the repair or replacement of any engine or part found to be defective within the applicable warranty period as set forth above. IN NO EVENT SHALL G & N AIRCRAFT, INC. BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR ECONOMIC LOSS OF ANY NATURE WHETHER ARISING IN CONTRACT OR TORT, INCLUDING STRICT LIABILITY IN TORT OR NEGLIGENCE ON THE PART OF G & N AIRCRAFT, INC. The laws of the State of Indiana will control the interpretation and application of this warranty. All disputes regarding this warranty and any related purchase or repair must be adjudicated in Lake County, Indiana.

Warranty No. 65478
Engine Serial No. L-29921-36A
Aircraft Registration No. _____



1701 East Main Street
Griffith, Indiana 46319
Tel: (219) 924-7110

G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

This is to certify that the engine described hereafter has been overhauled to the manufacturer's new parts limits. Engine disassembled, cleaned, inspected, and reassembled in accordance with manufacturer's overhaul instructions. All steel parts magnafluxed. Engine test run in F.A.A. approved test cell. All applicable Airworthiness Directives and Manufacturer's Service Bulletins are in compliance as of the date of overhaul.

A description is on file at this agency under:

Job No. 65478

Date 10/28/2008

Mfg. Lycoming

Model O-360-F1A6

Serial No. L-29921-36A

Time in Svc. _____



1701 E. Main St.
Griffith, IN 46319
(219) 924-7110

[Signature]
Authorized Signature C.R.S. # MW 2R020L

65478 The Accessories Listed Below Were Overhauled and Supplied With This Engine				
Engine	O-360-F1A6		SN L-29921-36A	DATE 10/28/08
	Part Number	Serial Number	Part Number	Serial Number
MAG.	<u>4371</u>	<u>08091434</u>	PROPELLER	<u>NONE</u>
MAG.	<u>4371</u>	<u>08091436</u>	PROP. GOV	<u>NONE</u>
ALT./GEN	<u>NONE</u>		TACH. GEN.	<u>NONE</u>
INJ. CARB.	<u>10-5253</u>	<u>PAMAG6401</u>	TURBO CHARGER	<u>NONE</u>
FUEL PUMP	<u>LW-16775</u>	<u>167750304</u>	WASTE GATE	<u>NONE</u>
STARTER	<u>MHB4016</u>	<u>G65478</u>	CONTROLLER	<u>NONE</u>
VAC. PUMP	<u>NONE</u>		CONTROLLER	<u>NONE</u>
DIS. VALVE	<u>NONE</u>		REL. VALVE	<u>NONE</u>



1701 E. Main St.
Griffith, IN 46319
(219) 924-7110

[Signature]
Authorized Signature C.R.S. # MW 2R020L

AIRWORTHINESS DIRECTIVE

At date of engine overhaul: 10/28/2008

Engine Model: 0-360-F1A6

Authorized Signature: 

AD & REV#	REV DATE	APPLIC. SB #	ONE TIME	RECURRING
92-12-05		501B	X	
95-07-01		95-002	X	
96-09-10		524	X	
97-15-11		527c	X	
98-17-11		-----	X	
2004-10-14		475C		X
2005-19-11		566	X	
2006-10-21		-----	X	
2006-20-09		569A	X	

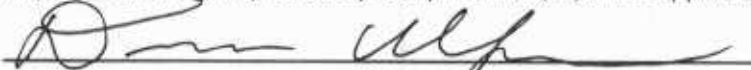
END

COMPLIANCE RECORD

S/N L-29921-36A W/O 65478

C/W complied with, P/C/W previously complied with, N/A not applicable

CRS MW2R020L



	N/A by P/N
	N/A by P/N
	P/C/W
	N/A by P/N
	N/A by insp.
overhaul sudden stoppage insp. prop strike any gear train repair	C/W check crank gear fit
	N/A by S/N
	N/A by P/N
	N/A by S/N

END

Date	TACH	TTSN
	Hobbs	SMOH

Performed Work: Must include signature, certificate number, and repair station number if applicable

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1
 Repair Station #NF2R029L ENGINE LOG #1
 Type CESSNA 172RG TT 3947
 N # 9990B TSMOH 0.0
 S/N 172RG1109 REC. HR. METER 3947

ENGINE MODEL 1-29921-36a
 ENGINE S/N 65478

ENGINE OVERHAUL-

RE-INSTALLED THIS ENGINE IN N9990B (172RG1109) WITH NEW ENGINE MOUNT KIT P/N J23502-1, NEW VACUUM PUMP P/N AA321500 S/N N55549 AND OVERHAULED ALTERNATOR P/N DOFF10300B S/N 8061536 WITH NEW S1597-1-3705 DRIVE BELT. INSTALLED NEW FLEXIBLE HOSES AND SCAT TUBING. RE-INSTALLED EXISTING AIR FILTER, BAFFLING, EXHAUST SYSTEM, PROPELLER AND GOVERNOR. SERVICED ENGINE WITH PHILLIPS 20W50 TYPE M OIL. GROUND RUN OPERATIONAL AND LEAK CHECKS WERE SATISFACTORY.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. # 16849 DATE: NOVEMBER 13, 2008

SIGNED: DONALD K. MORGAN *Donald K. Morgan* For
 J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185
 F.A.A. APPROVED REPAIR STATION #NF2R029L

J A AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554 P 1
 Repair Station #NF2R029L ENGINE LOG #1
 Type CESSNA 172RG TT 3967
 N # 9990B TSMOH 20
 S/N 172RG1109 REC. HR. METER 3967

ENGINE MODEL D-360-F1A6
 ENGINE S/N L-29921-36A

OIL CHANGE-

DRAINED OIL AND CUT OPEN FILTER FOR INSPECTION. NO CONTAMINANTS FOUND. SERVICED ENGINE WITH 8 QTS OF 20W50 TYPE M OIL AND INSTALLED NEW FILTER P/N AA48110. RAN AIRCRAFT AND INSPECTED FOR LEAKS. NO LEAKS FOUND AT THIS TIME.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. #17351 DATE: JUNE 23, 2009

SIGNED: BRUCE P. REBECHINI *Bruce P. Rebechini* For
 J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554
 F.A.A. APPROVED REPAIR STATION #NF2R029L

of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

Date

TACH

J A AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554 P 1

Repair Station #NF2R029L

ENGINE LOG #1

Type CESSNA 172RG

Performed by: Must include signature

N # 9990B

certificate number TSMOH 27

S/N 172RG1109

REC. HR. METER 3974

ENGINE MODEL O-360-F1A6

ENGINE S/N L-29921-36A

ENGINE INSPECTION:

AT THIS TIME, THIS ENGINE WAS CLEANED, INSPECTED & SERVICED AS PER CESSNA & LYCOMING SERVICE MANUALS FOR AN ANNUAL INSPECTION. COMPRESSION WAS TESTED AS FOLLOWS: #1-77, #2-78, #3-76, #4-77—ALL OVER 80. THE OIL & FILTER PREVIOUSLY CHANGED AT 3967 HOURS AND ENGINE WAS WERVICED WITH 20-50 TYPE M PHILLIPS OIL. MAG TIMING WAS CHECKED. SPARK PLUGS WERE CLEANED, GAPPED, TESTED & ROTATED. TESTED IGNITION LEADS. THE INDUCTION & EXHAUST SYSTEMS WERE CHECKED FOR CONDITION, LEAKS & SECURITY. CLEANED FUEL SCREENS AND CHECKED ENGINE CONTROLS FOR PROPER TRAVELS & CONDITION. THESE ITEMS WERE REPAIRED, REPLACED OR CORRECTED:

I CERTIFY THAT THIS ENGINE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W.O.# 17428. DATE SEPTEMBER 3, 2009 J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554 FAA APPROVED REPAIR STATION #NF2R029L

* *Bruce Rebechini*
* BRUCE P. REBECHINI INSPECTOR

J A AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554 P 1

Repair Station #NF2R029L

ENGINE LOG #1

Type CESSNA 172RG

TT 3978

N # 9990B

TSMOH 31

S/N 172RG1109

REC. HR. METER 3978

ENGINE MODEL O-360-F1A6

ENGINE S/N L-29921-36A

TROUBLE SHOOT CAUSE OF SLIGHT ENGINE RPM SURGING AT TIMES—INSPECTED THE ENGINE FOR DEFECTS. NON WERE FOUND. CONTACTED AIRCRAFT PROPELLER AND FOUND PROBLEM WAS CAUSED BY IMPROVED FLY WEIGHT DISC INSTALLED AT LAST OVERHAUL. REMOVED GOVERNOR P/N C290D3J/T18 S/N 811835 AND SENT AIRCRAFT FOR MODIFICATION REF WO# 95628. REINSTALLED ONCE RETURNED, GROUND RAN AND FLIGHT TESTED. OPERATION WAS NORMAL.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. # 17602 DATE: SEPTEMBER 11, 2009

SIGNED: *Bruce Rebechini* For
J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554
F.A.A. APPROVED REPAIR STATION #NF2R029L

Date TACH

J.A. AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554

Repair Station #NF2R029L

ENGINE LOG #1

Type CESSNA 172RG

Performed in accordance with certificate number. Must include signature, station number if applicable

N # 9990B

TT 3992.1

S/N 172RG1109

TSMOH 45.1 REC. HR. METER 3992.1

ENGINE MODEL O-360-F1A6

ENGINE S/N L-29921-36A

ENGINE INSPECTION-

AT THIS TIME, THIS ENGINE WAS CLEANED, INSPECTED & SERVICED AS PER CESSNA & LYCOMING SERVICE MANUALS FOR AN ANNUAL INSPECTION. COMPRESSION WAS TESTED AS FOLLOWS: #1-79, #2-79, #3-79, #4-78--ALL OVER 80. THE OIL & FILTER WERE CHANGED. OPENED AND INSPECTED THE FILTER. SERVICED THE ENGINE WITH 20W50X/C PHILLIPS OIL. MAG TIMING WAS CHECKED. SPARK PLUGS WERE CLEANED, GAPPED, TESTED & ROTATED. TESTED IGNITION LEADS. THE INDUCTION & EXHAUST SYSTEMS WERE CHECKED FOR CONDITION, LEAKS & SECURITY. CLEANED FUEL SCREENS AND CHECKED ENGINE CONTROLS FOR PROPER TRAVELS & CONDITION. THESE ITEMS WERE REPAIRED, REPLACED OR CORRECTED:

I CERTIFY THAT THIS ENGINE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W.D.# 18404. DATE OCTOBER 6, 2010 J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554 FAA APPROVED REPAIR STATION #NF2R029L

* Donald K. Morgan
DONALD K. MORGAN

INSPECTOR

ENGINE MODEL
O-360-F1A6
ENGINE S/N L-29921-36A
REG NO N9990B
WORK ORDER:
169-10-2011



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone 630.584.3200

DATE: 07 November, 2011
A/C TSN: 3998.6
ENG TT: 3996.6
TSMOH: 51.7
TACH: 3998.6

Engine Entries

(2) Completed an annual inspection on this engine as per Cessna Model 172RG Service Manual Inspection Chart for an annual inspection as a guide. Lycoming O-360 Maintenance Manual and AC 43.13-1B Chapter 9. Compressions were tested as follows: #1-72, #2-70, #3-70 and #4-70 all over 80 psi. The oil and filter was changed. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W50 X/C oil and a new AA48110-2 filter. See the following items for additional service and repairs.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L under Work Order No. 169-10-2011, Dated 07 November, 2011.

DATE: 07 November, 2011

SIGNED:

Work Order: 169-10-2011

Bruce Rebechini
Certified Repair Station No. NF2R029L

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G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

ENGINE MODEL: O-360-F1A6
ENGINE S/N: L-29921-36A
REG. NO: N9990B
WORK ORDER: 1149-11-2012



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 01 April, 2013
A/C TSN: 4000.9
ENG TT: 4000.9
TSMOH: 54
TACH: 4000.9

Engine Entries

- 2 Completed an annual inspection on this engine as per Cessna Model 172RG Service Manual Inspection Chart for an annual inspection as a guide, Lycoming O-360 Maintenance Manual and AC 43.13-1B Chapter 9. Compressions were tested as follows; #1-77, #2-77, #3-78 and #4-77 all over 80 psi. The oil and filter was changed. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W50 X/C oil and a new AA48110-2 filter. See the following items for additional service and repairs.
- 8 Retimed LH and RH magnetos to 25 degrees BTDC as per engine spec's.
- 23 AD2012-03-07 To prevent engine in-flight shutdown. Precision CNC carburetors does not apply by part number and typed carburetor installed. No further action is required.
- 24 AD2012-19-01 To prevent crankshaft failure does not apply by crankshaft serial number. No further action is required.
- 25 Slick SB1-12 decreased point life does not apply by magneto serial numbers s/n 08091434 and s/n 08091436 and no point replacement since new. No action required.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station. CRS NF2R029L and EASA.145.5424 under Work Order No. 1149-11-2012, Dated 01 April, 2013.

DATE: 01 April, 2013

SIGNED:

Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 1149-11-2012

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ENGINE MODEL: O-360-F1A6
ENGINE S/N: L-29921-36A
REG. NO: N9990B
WORK ORDER: 2583-04-2014



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 08 May, 2014
A/C TSN: 4010.6
ENG TT: 4010.6
TSMOH: 63.7
TACH: 4010.6

Engine Entries

- 2 Completed an annual inspection on this engine as per Cessna Model 172RG Service Manual Inspection Chart for an annual inspection as a guide, Lycoming O-360 Maintenance Manual and AC 43.13-1B Chapter 9. Compressions were tested as follows; #1-71, #2-68, #3-70 and #4-71 all over 80 psi. The oil and filter was changed. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W50 X/C oil and a new AA48110-2 filter. See the following items for additional service and repairs.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station. CRS NF2R029L and EASA.145.5424 under Work Order No. 2583-04-2014, Dated 08 May, 2014.

DATE: 08 May, 2014

SIGNED:

Don Morgan
Certified Repair Station No. NF2R029L

Work Order: 2583-04-2014

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ENGINE MODEL: O-360-F1A6
ENGINE S/N: L-29921-36A
REG. NO: N9990B
WORK ORDER: 4094-05-2015



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 18 June, 2015
A/C TSN: 4025.1
ENG TT: 4025.1
TSMOH: 76.2
TACH: 4025.1

Engine Entries

- 2 Completed an annual inspection on this engine as per Cessna Model 172RG Service Manual Inspection Chart for an annual inspection as a guide, Lycoming O-360 Maintenance Manual and AC 43.13-1B Chapter 9. Compressions were tested as follows; #1-76, #2-70, #3-78 and #4-79 all over 80 psi. The oil and filter was changed. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W50 X/C oil and a new AA48110-2 filter. See the following items for additional service and repairs.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station. CRS NF2R029L and EASA.145.5424 under Work Order No. 4094-05-2015, Dated 18 June, 2015.

DATE: 18 June, 2015

SIGNED:

Don Morgan
Certified Repair Station No. NF2R029L

Work Order: 4094-05-2015

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G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

ENGINE MODEL O-360-F1A6
ENGINE S/N L-29921-36A
REG NO N9990B
WORK ORDER: 5473-06-2016



J.A. Air Center
Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone 630.584.3200

DATE: 07 July, 2016
A/C TSN 4038.2
ENG TT 4038.2
TSMOH 91.3
TACH 4038.2

Engine Entries

- 2 Completed an Annual Inspection on this engine as per Cessna Model 172RG Service Manual Inspection Chart for an Annual Inspection as a guide. Lycoming O-360 Maintenance Manual and AC 43.13-1B Chapter 9. Compressions were tested as follows: #1-68, #2-75, #3-76 and #4-72 all over 60 PSI. The oil and filter was changed. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W50 X/C oil and a new AA48110-2 filter. See the following items for additional service and repairs.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at the repair station CRS NF2R029L and EASA 145 5424 under Work Order No. 5473-06-2016. Dated 07 July, 2016

DATE: 07 July, 2016

SIGNED

Work Order: 5473-06-2016

Bruce Rebecchini
Certified Repair Station No. NF2R029L

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Engine Maintenance Entry for N9990B

DATE: 06/12/2017
ETT: 4128.9
PTT: 200.5

ACTT 4128.9

TACH: 1493.6
ETSOH: 192.0
PTSOH: 200.5



1. COMPLIED WITH ANNUAL/100 HOUR INSPECTION USING CESSNA SERVICE MANUAL AS A GUIDE I/A/W FAR 43 APPENDIX "D".
2. #1-74/80, #2-78/80, #3-76/80, #4-71/80.
3. COMPLIED WITH AN OIL CHANGE, DRAINED OIL, REMOVED SUCTION SCREEN AND CLEANED. REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1 REPLACED GASKET ON SUCTION SCREEN AND INSTALLED SCREEN. SERVICED WITH 8 QUARTS XC2050.
4. CLEANED GAPPED AND ROTATED SPARK PLUGS.
5. ADJUSTED MAGNETO TO ENGINE TIMING.
6. CLEANED FUEL PRIMER NOZZLES.
7. CLEANED FUEL SCREEN.
8. CLEANED FUEL GASCOLATOR SCREEN.
9. REPLACED ENGINE INTAKE FILTER BA5805
10. LUBRICATED AIRCRAFT USING CESSNA SERVICE MANUAL AS A GUIDE.
11. ADS CHECKED THRU 2017-12 SEE AD REPORT THIS DATE.

Page 1 of 2

I CERTIFY THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL/100 HOUR INSPECTION AND HAS BEEN FOUND TO BE IN AN AIRWORTHY CONDITION. THIS ENGINE IS BEING RETURNED TO SERVICE THIS DATE.

Michael S. Lawson

Signature

Wings Aviation Inc. 4601 Murvhill Rd. Valparaiso IN 46383 219-462-6622 wingsaviationvz.com

Certificate No. AP3057235331A

**weight AD oil
5W through 100W.**

Date	TACH	TTSN	Performed Work: Must include signature, certificate number. and repair station number if applicable
<u>Engine Maintenance Entry for N9990B</u>			
DATE: 07/07/2017	ETT: 4177.6	PTT: 249.2	ACTT 4177.6 ETSOH: 240.7 PTSOH: 249.2
<p>1. COMPLIED WITH AN OIL CHANGE, DRAINED OIL,, REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1. SERVICED WITH 8 QUARTS XC2050. GROUND RUN AND LEAK CHEKCED.</p>			
<p>Michael S. Lawson Signature: <i>Michael S. Lawson</i> Wings Aviation Inc. 4601 Marvithill Rd. Valparaiso IN 46383 219-462-6622 wingsaviationvz.com</p>			Certificate No. AP3057235331A
Page 1 of 1			

G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

Date

Engine Maintenance Entry for N9990B

DATE: 08/04/2017
ETT: 4426.6
PTT: 298.5

ACTT 4226.6
ETSOH: 290.0
PTSOH: 298.5

plicable

1. COMPLIED WITH ANNUAL/100 HOUR INSPECTION USING CESSNA SERVICE MANUAL AS A GUIDE I/A/W FAR 43 APPENDIX "D".
2. #1-66/80, #2-76/80, #3-66/80, #4-62/80.
3. COMPLIED WITH AN OIL CHANGE, DRAINED OIL, REMOVED SUCTION SCREEN AND CLEANED. REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1 REPLACED GASKET ON SUCTION SCREEN AND INSTALLED SCREEN. SERVICED WITH 8 QUARTS XC2050.
4. CLEANED GAPPED AND ROTATED SPARK PLUGS.
5. ADJUSTED MAGNETO TO ENGINE TIMING.
6. CLEANED FUEL PRIMER NOZZLES.
7. CLEANED FUEL SCREEN.
8. CLEANED FUEL GASCOLATOR SCREEN.
9. REPLACED INTAKE GASKETS ON #2 & #3 INTAKES.
10. BENCH CHECKED PROP GOVERNOR BY AIRCRAFT SPECIALIST. ADJUSTED PROP GOVERNOR HIGH RPM.

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11. REPLACED ENGINE INTAKE FILTER BA5805
12. LUBRICATED AIRCRAFT USING CESSNA SERVICE MANUAL AS A GUIDE.
13. AD 83-14-04 CABIN HEAT SHROUD MOD COMPLIED WITH BY VISUAL INSPECTION. NO DEFECT NOTED. DUE 4276.6 ACTT
14. AD 2001-23-03 DETECT AND CORRECT CHAFING OF DOOR POST LIGHT SWITCH ON FUEL LINE. DUE AGAIN 08/30/2018.
15. AD'S CHECKED THRU 2017-15. SEE AD REPORT THIS DATE.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL/100 HOUR INSPECTION AND HAS BEEN FOUND TO BE IN AN AIRWORTHY CONDITION. THIS ENGINE IS BEING RETURNED TO SERVICE THIS DATE.



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G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

Date	TACH	TTSN

Performed Work: Must include signature, certificate number, and repair station number if applicable

Engine Maintenance Entry for N9990B

DATE: 11/17/2017
 ETT: 4279.6
 PTT: 351.1

TACH: 4279.5

ACTT: 4279.5
 ETSOH: 342.6
 PTSOH: 351.1

1. COMPLIED WITH AN OIL CHANGE, DRAINED OIL, REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1. SERVICED WITH 8 QUARTS XC2050. GROUND RUN AND LEAK CHECKED.

Michael S. Lawson
 Signature: 
 Wings Aviation Inc. 4601 Murvhill Rd. Valparaiso IN 46383 219-462-6622 wingsaviationvpz.com
 Certificate No. AP3057235331A

Engine Maintenance Entry for N9990B

DATE: 12/27/2017
 ETT: 4485.1
 PTT: 357.0

TACH: 4285.1

ACTT: 4285.1
 ETSOH: 348.5
 PTSOH: 357.0

1. COMPLIED WITH AN OIL CHANGE, DRAINED OIL, REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1. SERVICED WITH 8 QUARTS XC2050. GROUND RUN AND LEAK CHECK GOOD.

Michael S. Lawson
 Signature: 
 Wings Aviation Inc. 4601 Murvhill Rd. Valparaiso IN 46383 219-462-6622 wingsaviationvpz.com
 Certificate No. AP3057235331A

G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

Date

TACH	TTSN
Hobbs	SMOH

Performed Work: Must include signature, certificate number, and repair station number if applicable

DATE: 05/03/2017
ETT: 4328.4
PTT: 399.3

2018MSL

Engine Maintenance Entry for N9990B

TACH: 4328.4

ACTT 4328.4
ETSOH: 391.8
PTSOH: 399.3

1. COMPLIED WITH ANNUAL/100 HOUR INSPECTION USING CESSNA SERVICE MANUAL AS A GUIDE I/A/W FAR 43 APPENDIX "D".
2. #1-62/80, #2-73/80, #3-60/80, #4-62/80.
3. COMPLIED WITH AN OIL CHANGE. DRAINED OIL, REMOVED SUCTION SCREEN AND CLEANED. REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED A NEW CHAMPION OIL FILTER CH48110-1 REPLACED GASKET ON SUCTION SCREEN AND INSTALLED SCREEN. SERVICED WITH 8 QUARTS XC2050.
4. CLEANED GAPPED AND ROTATED SPARK PLUGS. REPLACED #3 LOWER WITH A NEW CHAMPION SPARK PLUG P/N: RHB38E
5. ADJUSTED MAGNETO TO ENGINE TIMING.
6. CLEANED FUEL PRIMER NOZZLES.
7. CLEANED FUEL SCREEN.
8. CLEANED FUEL GASCOLATOR SCREEN.
9. REPLACED INTAKE GASKETS ON #3 INTAKES.

Page 1 of 2

10. INSTALLED CARBURETOR AFTER REPAIR BY D&G SUPPLY. REPLACED THROTTLE ROD END BEARING. RIGGED ENGINE THROTTLE AND MIXTURE CONTROL. ADJUSTED IDLE MIXTURE AND IDLE.
11. REPLACED CARB HEAT SCRET TUBE.
12. REPLACED GASKET ON OIL FILL TUBE.
13. REPLACED ENGINE INTAKE FILTER BA5805.
14. AD 2017-16-11 ENGINE CONNECTING ROD ASSEMBLIES INTEGRITY N/A BY DATE OF OVERHAUL.
15. AD'S CHECKED THRU 2018-09. SEE AD REPORT THIS DATE.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL/100 HOUR INSPECTION AND HAS BEEN FOUND TO BE IN AN AIRWORTHY CONDITION. THIS ENGINE IS BEING RETURNED TO SERVICE THIS DATE.

Michael S. Lawson

Signature

Certificate No. AP3057235331A

Wings Aviation Inc. 4601 Murvhill Rd Valparaiso IN 46385 219-462-6622 wingsaviationvpz.com

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G&N Aircraft Recommended oil after break in: Any approved straight weight AD oil of a viscosity respective of operating outside air temperature, i.e. Grade 65W through 100W.

Da

ENGINE MODEL O-360-F1A5
ENGINE S/N L-29921-36A
REG. NO. N9990B
WORK ORDER: 7551-05-2018



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

Engine Entries

- 3 Checked for possible sticking valves on #4 cylinder due to cold cylinder at idle and popping sound from exhaust. Valve inspection was normal. spark plugs beyond their service life except bottom #3 was new. Installed 7 new Tempest UHB32E spark plugs and tested engine operation. Engine operation improved but #4 cylinder was still cold at idle and elevated at mid range. Verified #4 cylinder indication was correct on the JPI. Pre the induction and found the #4 induction tube to cylinder flange gasket was mostly missing. Removed the induction tube, cleaned and installed a new gasket and reassembled the induction system. Retested the engine and set the idle mixture. Operation was normal.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under CFR NF2R029L and EASA 145 5424 under Work Order No. 7551-05-2018, Dated 01 June, 2018.

DATE: 01 June, 2018

SIGNED:

Bruce Rebecchini
Certified Repair Station No. NF2R029L

Work Order: 7551-05-2018

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