

MASTER ENGINE BUILDERS



ENGINE LOG

F.A.A. Certified Repair Station MW2R020L

"Quality not Quantity"

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 manufacturers 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 16 month period would have a prorated warranty coverage of 68% 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 are 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 by 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 OR 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. 71120-1215
Engine Serial No. 71120
Aircraft Registration No. _____



G & N AIRCRAFT, INC.

Griffith, Indiana 46319
Tel. _____

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 IN EXPERIMENTAL CONDITION

This is to certify that the engine here after has been manufactured to new parts limits. Engine was cleaned, inspected, and assembled in accordance with the manufacturer's instructions. Engine was test run on F.A.A. approved test cell. All applicable Airworthiness Directives and Manufacturer's Service Bulletins are in compliance as of this date. Engine is in condition for safe operation of flight.

A description is on file at this agency under:

Job No. 71120

Date 12/17/2015

Mfg. Lycoming

Model IO-360-GNX

Serial No. 71120-1215

Time in Svc. 0



G&N Aircraft, Inc.

Telephone

Authorized Signature

C.R.S. #

The Accessories Listed Below Were Supplied With This Engine

Part Number	Serial Number
MAG.	NONE
MAG	NONE
ALT./GEN	NONE
INJ./CARB.	NONE
FUEL PUMP	AF15473 09N807
STARTER	NONE
VAC. PUMP	NONE
DIS. VALVE	NONE

Part Number	Serial Number
PROPELLER	NONE
PROP. GOV	NONE
TACH. GEN.	NONE
TURBO CHARGER	NONE
WASTE GATE	NONE
CONTROLLER	NONE
CONTROLLER	NONE
REL. VALVE	NONE



G&N Aircraft, Inc.

Authorized Signature

C.R.S. #

AIRWORTHINESS DIRECTIVE

NEW

At date of engine ~~xxxxxx~~: 12/17/2015

Engine Model: IO-360-GNX

Authorized Signature: 

AD & REV#	REV DATE	APPLIC. SB #	ONE TIME	RECURRING
No Airworthiness Directives Due at this time. All Airworthiness Directives* that apply to a Lycoming IO-360 will apply to this Engine*****				

COMPLIANCE RECORD

S/N 71120-1215

W/O 71120

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

CRS

*****	*****
*****	*****
*****	*****

Date

TACH

TTSN

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

WILLIAMS
AVIATION, LLC

Approx 80
mineral

1/19/2016 Tach:630.40 Total Time on Engine:0.00

Engine installed On:N667AZ Make:Lycoming Model:IO-360-GNX S/N:71120-1215

Installed engine on N667AZ. Complied with an Condition inspection. Compression Check as follows #1 79/80 #2 79/80 #3 79/80 #4 79/80. Installed OH LT and RT Emags and new spark plugs wires, Installed new plugs NGKBR8ES. reinstalled using new gaskets. Installed OH Fuel injection servo from Airflow performance EX-5 S/N:5717-EX and flow divider S/N:19L, work completed under invoice Y16-C15387. C/W AD15-19-07 on fuel injection lines due again in 100 hours. Did operational check and no defects noted.

This Engine has been inspected in accordance with an Condition inspection and was determined to be in a safe condition for flight.

END

WILLIAMS
AVIATION, LLC

1/27/2016 Tach:635 Total Time on Engine:4.6

Engine installed On:N667AZ Make:Lycoming Model:IO-360-GNX S/N:71120-1215

Completed 5 hour inspection. Drained oil and cut open filter no defects noted. installed new 48110-2 and 8 quarts of shell 80 mineral. Did operational check and no defects noted.

This Engine has been inspected in accordance with an Condition inspection and was determined to be in a safe condition for flight.

END

4/12/16

20.70

651.10

Completed oil change, Drained oil cut open filter no defects noted. Installed new 48110-2 and 8 qts of Shell 80 mineral. Operational check ok.

A&P

6/1/16

33.775

664.10

Completed oil change, Drained oil cut open filter no defects noted. Installed new 48110-2 and 8 qts of Shell 100plus. Ops Checked good.

A&P

END

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 Hobbs	TTSN SMOH	Performed Work: Must include signature, certificate number, and repair station number if applicable
16 SEP 2016	690.6	60.2	COMPLETED OIL CHANGE, DRAINED OIL CUT OPEN FILTER-NO DEFECTS NOTED. INSTALLED NEW 48110-2 AND 8QTS. OF PHILLIPS 20W-50. OPS CHECK GOOD. [REDACTED] OWNER END

WILLIAMS AVIATION, LLC

2/20/2017 Tach:713.60 Total Time on Engine:83.20
Engine installed On:N667AZ Make:Lycoming Model:IO-360-GNX S/N:71120-1215

Completed condition inspection. Drained oil and cut open filter no defects noted. installed new 48110-2 and 8 quarts of Phillips XC20W50. Removed and replaced all 8 spark plugs NGK BR8ES set gap. Did operational check and no defects noted.

#1 7/80 #2 7/80 #3 7/80 #4 7/80
This Engine has been inspected in accordance with an Condition inspection and was determined to be in a safe condition for flight.

C/W AD15-19-07 [REDACTED] A&P
Fuel injection line AD C/W per 5B342G END

06 SEP 2017	765.0	134.6	COMPLETED OIL CHANGE. DRAINED OIL CUT OPEN FILTER-NO DEFECTS NOTED. INSTALLED NEW 48110-2 AND 8QTS. OF PHILLIPS 20W-50. OPS CHECK GOOD. [REDACTED] OWNER END
-------------	-------	-------	---

WILLIAMS AVIATION, LLC

3/27/2018 Tach:787.6 Total Time on Engine:157.2
Engine installed On:N667AZ Make:Lycoming Model:IO-360-GNX S/N:71120-1215

Completed condition inspection. Drained oil and cut open filter no defects noted. installed new 48110-2 and 8 quarts of Phillips XC20W50. Removed and replaced all 8 spark plugs NGK BR8ES set gap. #1 79/80 #2 79/80 #3 79/80 #4 78/80. Did operational check and no defects noted. AD 2017-16-11 NA by date of parts shipped from factory. AD15-19-07 C/W per 5B342G

This Engine has been inspected in accordance with an Condition inspection and was determined to be in a safe condition for flight.

[REDACTED] A&P
END

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.

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

The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order Number: 73147

Engine Model 10-360-GNX Serial Number: 71120-1215

Date: 05/09/2018 Signed: _____

for
G&N Aircraft, Inc.

F.A.A. CRS
Griffith, IN 46319
(219)924-7110

05/09/18	16:23:16	See Description of Inspection below	PAGE	1
Item		Item		
Num.		Description	Quantity	
05K22940		Gasket Kit		4
* * * E N D O F R E P O R T * * *				

Removed cylinders and inspected per SB632B & AD2017-16-11. SB632B tested okay. Install cylinders, ground ran, Checked for leaks, no leaks found. Using the above parts:

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.