

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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WESTERN Skyways
INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place
Mesa, AZ 85201
www.westernskyways.com

(908) 576-0000
(978) 244-0282
FAX: (978) 244-4100

737LG ENGINE LOG

Engine Make: LYCOMING Model: O-320-H2AD
 Serial Number: L-4992-76T W/O No: 19511 Date: 06/22/07
 Warranty Number: F7136 Warranty Start Date: 07/07
 Crankshaft Serial No: 132332 Cylinder Part Number: LW-15318

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: 60294-9 See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 1305.0 Hrs.

This engine meets requirements of LYCOMING SI-1009AQ for 2000.0 Hour TBO.

The accessories listed below were new or overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	BL-682555-14	G06KA051R	Vac Pump:	N/A	N/A
R/H Mag:	DUAL	DUAL	Wastegate:	N/A	N/A
Fuel Pump:	N/A	N/A	Alt/Gen:	N/A	N/A
Inj Carb:	10-5135	CK-8-14729	Pop Off:	N/A	N/A
Man Valve:	N/A	N/A	Controller:	N/A	N/A
Starter:	MHB-4016	H050895	VAPC:	N/A	N/A
Turbo:	N/A	N/A	Controller:	N/A	N/A
			Tach Gen:	N/A	N/A
			Ring Gear:	N/A	N/A

MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Signature:
Repair Station No. WS9R575J

DATE	TTSO	TTIS	TACH	ENGINE SER. NO. L-4992-76T	N737LG
12/01/2007	0.0	1305.00	1444.60	Installed Western Skyways Gold Seal overhauled engine with new oil filter and filled with Aeroshell Oil 80 straight mineral oil and LW-16702 additive IAW AD 80-04-03 R2. All fuel and oil hoses were replaced. Compressions after second ground run of engine were 78/80 on all four cylinders. No leaks detected. Operational checks were all normal.	

All work was performed IAW FAR 43 (D) Inspection Guide, manufacturer maintenance manual and AC43.13-1B. I certify that this engine has been inspected IAW an Annual inspection and was found to be in an airworthy condition.

Jaime S. LeBlanc
A&P436843790IA

DATE

TTSO

TTIS

TACH

ENGINE SER. NO. L-4992-76T

N737LG

Job 0924

12/15/2009


107.20

1412.20

1551.80

Replaced main oil plug gasket. Replaced accelerator pump gasket and epoxy sealed. Replaced oil sender gasket. Replaced alternator belt. Rerouted and secured oil pressure line. Compressions checked and read #1 - 71/80, #2 - 70/80, #3 - 71/80, #4 - 71/80. Checked timing. Checked spark plug gaps. Replaced air filter. Replaced oil with Aeroshell W80 PLUS. Replaced oil filter. Cut open and inspected filter IAW AD 80-04-03 R2. No leaks detected. Operational checks were all normal.

All work was performed IAW FAR 43 (D) Inspection Guide, manufacturer maintenance manual and AC43.13-1B. I certify that this engine has been inspected IAW an Annual inspection and was found to be in an airworthy condition.


Jaime S. LeBlanc A&P34386311A

N737LG
LYCOMING
O-360-H2AD
SN#

ENGINE

DATE
HOBBS
ENG TT
CYCL

8ug 2010
1584.2
n/a

1. C/W AD80-04-03R2 Amendment# 39-5839 dated 4-25-88. C/W by visually inspecting push rods and oil sump screen. No defects found. Installed new sump plug gasket PN# MS35769-31. Added 1 pint of LW16702 additive. Next inspection due at 1554.2 Tach.
2. Performed engine oil and filter change. Serviced engine with 7 quarts of Phillips 20W-50 X/C oil, installed a new CH-48103-1 oil filter.
3. Took Oil analysis sample and cut open filter. No defects noted in filter elements.
4. Performed ground operational check and leak checked, all checks completed satisfactorily.

The Engine identified is approved for return to service. Pertinent details are on file with the undersigned under West County Aero LLC Work Order: 10227.

Signed:  Chris McPherson A&P IA 3154631

N737LG
LYCOMING
O-360-H2AD
SN#L-4992-76T

ENGINE

DATE
TACH
ENG TT
CYCL

18 Aug 2011
1599.10
1459.5
n/a

1. C/W Annual Inspection IAW FAR 43 Appendix D, referenced the Cessna 172N Maintenance Manual inspection check list.
2. Completed AD research. See AD compliance record for a list of all applicable ADs.
3. C/W AD80-04-03R2 Amendment# 39-5839 dated 4-25-88. C/W by visually inspecting push rods and oil sump screen. No defects found. Installed new sump plug gasket PN# MS35769-31. Added 1 pint of LW16702 additive. Next insp. due at 1649.10 Tach.
4. Performed engine oil and filter change. Serviced engine with 6 quarts of Phillips 20W-50 X/C oil, installed a new CH-48103-1 oil filter.
5. Took Oil analysis sample and cut open filter. No defects noted in filter elements.
6. Adjusted idle mixture and RPM.
7. Compression: 80,80,80,70/80.
8. Torqued rocker box screws.
9. Repaired misc. cracks in heat shroud with patches.
10. Replaced exhaust gaskets with new PN# 77611 (4ea).
11. Re-torqued #2 cylinder oil return line.
12. Timed magnetos after replacing base gasket with new.
13. Engine ground strap loose at firewall, tightened.
14. Performed ground operational check and leak checked, all checks completed satisfactorily.

With respect to the work performed, this engine is approved for return to service. Pertinent details are on file with the undersigned under Work Order: 11047

Signed:  Chris McPherson A&P IA 3154631

D.

N737LG
LYCOMING
O-320H2AD
SN:L-4992-76T

ENGINE

DATE: 12 JUNE 2012
TACH: 1645.1
TTIS: 1505.5
TTSO: 200.5

1. Performed oil and filter change. Service engine with 6 quarts of aeroshell 15w-50 oil, installed 1ea Champion oil filter p/n CH48109-1, installed 1ea p/n MS35769-31 oil plug gasket. Next inspection/oil change due at Tach:1695.1.
2. Complied with AD80-04-03R2 by inspecting oil filter screen and cutting open oil filter element to check for metal particles. No defects found in either filter elements.
3. Complied with Special airworthiness information bulletin NE-06-31R2 allowing use of additized oils (aeroshell 15w-50) providing for requirement of Textron Lycoming additive LW-16702.
4. Performed operational ground check and leak check, all checks completed satisfactorily.

The engine identified is approved for return to service.

Signed: *Paul Moylan* Paul Moylan A&P 3605850

N738LG	ALBION ENGINE	DATE	9/4/2012
Lycoming		Tach	1678.2
O-320H2AD		EngTT	1538.6
S/N L-4992-76T		TTSo:	233.6

1. Completed annual inspection reference FAR 43 appendix D.
2. Completed AD research. See AD compliance list.
3. Completed compression test with these results: #1 76/80, #2 76/80, #3 76/80, #4 74/80.
4. Drained engine oil and removed filter. SOAP sample taken. Cut open old filter and inspected. No metal noted. Installed new filter P/N CH48109-1. Serviced with 6 qts. Aeroshell 15W50 oil.
5. Complied with AD 80-04-03R2 by visual inspection of oil sump screen and push rods. No defects noted. Next due at 1728.2 Tach time.
6. Replaced all spark plugs with new URHM38E

I certify this engine has been inspected in accordance with an annual inspection reference FAR part 43 appendix D and was determined to be in an airworthy condition. Pertinent details are on file with the undersigned under **West County Aero LLC Work Order: 12219.**

Signed: *Ted Stephens* Ted Stephens A&P/IA 3288321



3127 Creve Coeur Mill Rd.
St. Louis, MO 63146
314-434-2000

N737LG ENGINE
LYCOMING
O-360-H2AD
SN# L-4992-76T

DATE 8 Mar. 2013
TACH HOBBS 1704.6
ENG TT 1565.0
CYCL n/a
TTSo: 260.0

1. Drained oil, removed and replaced filter with new CH48109-1. Serviced with 6 qts Aeroshell 15w50 oil.
2. C/W AD80-04-03R2 Amendment# 39-5839 dated 4-25-88. C/W by visually inspecting push rods, oil sump screen, and used filter element. No defects found. Installed new sump plug gasket PN# MS35769-31. Additive not required due to use of AeroShell 15w-50 which contains specified additive. Next inspection due at next oil change or 1804.6 Tach.
3. Performed ground operational check and leak checked, all checks completed satisfactorily.

The Engine identified is approved for return to service. Pertinent details are on file with the undersigned under **Aeroworks USA Work Order 12341.**

Signed: *Aliessa Mullings* Aliessa Mullings AP 3569757

De
hours corrected
DT Paul Moylan
PM
A.P.
3605850

N738LG
Lycoming
O-320-H2AD
S/N L-4992-76T

ENGINE

DATE 03 SEP 2013
TACH 1717.9
ETT 1578.3
ETSOH 27.3

1. Completed annual inspection reference FAR 43 appendix D.
2. Completed AD research. See AD compliance list.
3. Completed compression test with these results: #1 76/80, #2 76/80, #3 76/80, #4 76/80.
4. Drained engine oil, took sample to send to AOA. Replaced filter with new CH48109-1. Opened and inspected used filter element and sump screen. No metal noted. Reinstalled sump screen and drain plug with new gaskets p/n MS35769-31. Serviced with 6 qts. Aeroshell 15W50 oil.
5. Complied with AD 80-04-03R2 by visual inspection of oil sump screen and push rods. No defects noted. Next due at 1767.9 Tach time.
6. Removed, cleaned, gapped, and inspected all spark plugs. No defects noted. Rotated and re-installed with 8 ea. new gaskets p/n M-674.
7. Replaced engine induction air filter p/n BA6108.

I certify this engine has been inspected in accordance with an annual inspection reference FAR part 43 appendix D and was determined to be in an airworthy condition. Pertinent details are on file with the undersigned under **Aeroworks USA Work Order: 12419.**

Signed: _____

Chris McPherson AP/IA 3154631

N737LG
LYCOMING
O-320H2AD
SN:L-4992-76T

ENGINE

DATE: 7 JUNE 2014
TACH: 1738.7
TTIS: 1599.1
TTSO: 294.1

1. Performed oil and filter change. Service engine with 6 quarts of aeroshell 15w-50 oil, installed 1ea Champion oil filter p/n CH48109-1, installed 1ea p/n MS35769-31 oil plug gasket. Next inspection/oil change due at Tach:1788.7
2. Complied with AD80-04-03R2 by inspecting push rods, oil filter screen and cutting open oil filter element to check for metal particles. No defects found in either filter elements.
3. Complied with Special airworthiness information bulletin NE-06-31R2 allowing use of additized oils (aeroshell 15w-50) providing for requirement of Textron Lycoming additive LW-16702.
4. Performed operational ground check and leak check, all checks completed satisfactorily.

The engine identified is approved for return to service.

Signed: _____

Paul Moylan A&P 3605850

AIR ASSOCIATES

18600 Edison Ave.
Chesterfield, MO 63005
(636) 536-1341

Engine

Date: 7/23/2014

Reg: N737LG

Model: O-320-H2AD

S/N: L-4992-76T

Tach: 1739.3

TTE: 1599.7

TSMO: 294.7

1. Complied with Annual Inspection in accordance with FAR 43 appendix d.
2. Took compression test: #1 78/80 #2 76/80 #3 77/80 #4 77/80
3. Cleaned, gapped, tested, and rotated spark plugs.
4. Checked engine to magneto timing.
5. Replaced induction filter with new p/n BA-6108.
6. Repositioned intake boots and torqued clamps.
7. Removed and inspect oil filter. Installed new oil filter p/n AA48109-2.
8. Washed engine, ran for leaks, and operation

I certify that this Engine has been inspected in accordance with an Annual Inspection and has been determined to be in airworthy condition.

Jeremy McInturff A&P3684045

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
8-30-16	1827.3	Replaced oil pick up tube screen gasket plus MS 35769-31, serviced engine with aeroshell 15W50. Performed Run up and leak checked, no leaks noted at this time. Tracy M. Mather A&P 2830402FA For: Martin Aircraft Services, LLC



Thoroughbred Aviation Maintenance, LLC

Date: 5-9-2017
 Reg: N737LG
 Eng PN: IO-320-H2AD
 Eng TSO: 419.6

Powerplant
 WO: 2404
 AC SN: 17269496
 Eng SN: L-4992-76T

Tach Time: 1864.2
 Hobbs: 2974
 Eng TT: 1724.6

- Removed and replaced #2 and #4 exhaust risers with new risers #2 PN 12100 SN 17-0431 #4 PN 14100 SN 13-0287-01 from Power Flow Systems IAW Cessna 172 N MM

-----End-----

I certify this engine has been inspected/repared/serviced utilizing Lycoming Operations Manuals and determined to be in Airworthy Condition.

MAINTENANCE RELEASE

The aircraft and/or component identified was repaired in accordance with current FAA regulations and was found airworthy for return to service. "Pertinent" details of the repair are on file at this agency under Work Order # _____ Date: 5-9-2017

Signed: *Jeffrey D Leach* Jeffrey D Leach # AP 35271391A

Engine Maintenance Entry for N737LG

DATE: 06/16/2017
 ETT: 1741.0
 PTT: UNK

ACTT: 4020.5

TACH: 1880.6
 ETSOH: 436.0
 PTSOH: 558.2

- COMPLIED WITH AN ANNUAL/100 HOUR INSPECTION THIS DATE USING CESSNA SERVICE MANUAL AS A GUIDE.
- #1-76/80, 32-75/80, 33-78/80, #4-77/80.
- COMPLIED WITH OIL CHANGE THIS DATE. DRAINED OIL REMOVED SUCTION SCREEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED. INSTALLED SUCTION SCREEN WITH NEW AN900 GASKET. REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED. INSTALLED A NEW CHAMPION OIL FILTER CH48109-1 AND SERVICED WITH 6 QUARTS AEROSHELL 15W50.
- CLEANED, GAPPED AND ROTATED SPARK PLUGS.
- ADJUSTED MAGNETO TO ENGINE TIMING.
- CLEANED FUEL PRIMER NOZZLE.
- CLEANED FUEL SCREEN.
- CLEANED FUEL GASCOLATOR SCREEN.
- COMPLIED WITH POWER FLOW EXHAUST SYETM INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.
- TORQUE CHECKED INTAKE TUBE HOSE CLAMPS.
- REPLACED INTAKE FILTER ELEMENT BA6108. DUE 06/30/2018 OR 4226.6 ACTT.

DATE

TACH OR
RECORDING
METER

DESCRIPTION OF WORK PERFORMED --
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

- 12. LUBRICATED ENGINE CONTROL ROD ENDS.
- 13. AD 80-04-03 PUSH RODS COMPLIED WITH BY A VISUAL INSPECTION OF ENGINE SUCTION SCREEN, CUT OPEN OIL FILTER INSPECTION. SERVICE ENGINE WITH AEROSHELL 15W50. DUE 4076.6 ACTT.
- 14. ADS CHECKED THRU 2017-12. SEE AD COMPLIANCE REPORT THIS DATE.

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

Michael S. Lawson
Signature

Certificate No. AP3057235521A
Wings Aviation Inc. 4601 Murvhill Rd. Valparaiso IN 46385 219-462-6622 wingsaviationvpz.com

Page 2 of 2

Engine Maintenance Entry for N737LG
DATE: 07/10/2017 TACH: 1919.9

- 1. REMOVED PRESTOLITE STARTER P/N: MHB4016P, S/N: H050895 AND INSTALLED ANEW SKY TEC STARTER P/N: 149-NL, S/N: FN-4016160. CALCULATED WEIGHT AND BALANCE MATMATICALLY.

Michael S. Lawson
Signature

Certificate No. AP3057235521A
Wings Aviation Inc. 4601 Murvhill Rd. Valparaiso IN 46385 219-462-6622 wingsaviationvpz.com

FAA - PMA

This tag certifies that Sky-Tec Model No. 149-NL
Serial No. FN-4016160 was manufactured new on 07 Oct 2016
by Sky-Tec under the authority of FAA-PMA No. PQ0852SW
Supplement No. 7 in accordance with Sky-Tec's
FAA-Approved Quality System (14CFR Part 21, Subpart K).
This article has been determined to be airworthy.

For installation eligibility see www.skytecair.com/eligibility.htm
Installed on N 737LG by Michael S. Lawson
(Aircraft) (Mechanic)

DATE

e No.

Engine Maintenance Entry for N737LG
DATE: 07/15/2017 TACH: 1932.8

1. COMPLIED WITH OIL CHANGE, DRAINED OIL, REMOVED OIL FILTER AND CUT OPEN FOR A VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. REMOVED SUCTION SCREEN AND CLEANED. INSTALLED A NEW CHAMPION OIL FILTER CH48109-1 AND SERVICED WITH AEROSHELL 15W50. OPS CHECKED AND LEAK CHECK GOOD.

Michael S. Lawson

Signature

Wings Aviation Inc 4601 Murvihill Rd Valparaiso IN 46383 219-462-6622 wingsaviationvpx.com

Certificate No. AP3087235331A

Engine Maintenance Entry for N60813

DATE: 07 21 2017
ETT: 545.5
PTT: 545.5

ACTT: 545.5

TACT: 545.5
ETSNEW: 545.5
PTNEW: 545.5

1. DRAINED OIL REMOVED FILTER AND CUT OPEN FILTER FOR VISUAL INSPECTION. NO DEFECTS NOTED AT THIS TIME. INSTALLED CHAMPION CH48108-1, SERVICED WITH 5 QUARTS XC 20W50. WASHED ENGINE, GROUND RAN AND CHECKED FOR LEAKS.

N/A FOR N737LG

Michael S. Lawson

Signature

Wings Aviation Inc 4601 Murvihill Rd Valparaiso IN 46383 219-462-6622 wingsaviationvpx.com

Certificate No. AP3087235331A

