

Engine Log & Maintenance Record

LOG #: 1

RECORD OF CIRKUS DESIGN CORP SR20 2518
(MAKE) (MODEL) (SERIAL)

AIRCRAFT REGISTRATION NUMBER: N87VB

FROM October 2019 TO _____ 20

DETAILING TIME FROM _____ TO _____
(HOURS) (HOURS)

If used on a multi-engine aircraft: Right Left Front Rear

New Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been manufactured and ground operation tested as prescribed by Lycoming specification and Federal Aviation Regulations. All applicable Federal Aviation Airworthiness Directives applicable Lycoming Service Publications have been complied with at time of manufacture. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

LYCOMING

Part Number ENPL-RT10944
Serial Number L-931-80E
Engine Model IO-390-C3B6
Work Order KM738623
Total Time 0

Charles New 8/14/19
Authorized Representative Date

Production Certificate #3

652 Oliver Street Williamsport, PA 17701 U.S.A.
Lycoming Engines is a division of Avco Corporation

Form 777C Rev 05/13

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6427

Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 10/25/2019
A/C TSN: 22.1
ENG TT: 22.1
TACH: 22.1

Engine Entries

- Performed a 25 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Drained engine oil and serviced engine with 7 quarts Phillips 20w50 mineral oil.
- *Removed oil filter and inspected for metal contamination, no metal noted
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed oil sump screen, inspected, serviced, and re-installed/torqued/saftied. No defects noted
- *Washed down engine and lubricated controls
- *Performed post inspection run up and leak check, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 10/25/2019

SIGNED: 

Work Order: 6427

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6455



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 11/29/2019
A/C TSN: 52.3
ENG TT: 52.3
TACH: 52.3

Engine Entries

- Performed a 50 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Drained engine oil and serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Removed oil filter and inspected for metal contamination, no metal noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets
- *Washed down engine and lubricated controls
- *Performed post inspection run up and leak check, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 11/29/2019

SIGNED: 

Work Order: 6455

Roberto Ruiz, A&P: 3233677

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6471



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 12/18/2019
A/C TSN: 61.6
ENG TT: 61.6
TACH: 61.6

Engine Entries

- Installed Tanis engine pre-heater (P/N: TSP4CYL-2925-115, S/N: 54800) Performed an operational check of the same, no defects noted
- *See FAA Form 337 for pertinent details of this modification.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 12/18/2019

SIGNED: 

Work Order: 6471

Darion McFadden, A&P: 4138120

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Total to Date: _____

All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6512



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 2/11/2020
A/C TSN: 95.9
ENG TT: 95.9
TACH: 95.9

Engine Entries

- Performed a 100 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed engine compression leak down check, results were as follow: #1:78 #2:78 #3:76 #4:76.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Removed/cleaned/inspected/reinstalled oil suction screen.
- *Removed oil filter and inspected for metal contamination; no metal noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted.
- *C/W ICA Tanis Engine Heater, no defects noted.
- Removed leaking crankshaft seal and replaced with new.
- Removed damaged cylinder #3 exhaust header and replaced with new.
- Removed cylinder #3, changed cylinder base o-ring, and re-installed same cylinder.
- Installed new barrel nut in cylinder #3.
- Removed fuel servo, removed leaking oil sump gaskets and replaced with new, and re-installed same fuel servo after re-installation of the oil sump.
- Torqued and saftied oil filler neck.
- Removed, cleaned, re-installed, and torqued all four leaking oil return lines.
- Adjusted magneto timing to 20 degrees BTDC. Performed an operational check of the same, no defects noted.
- Washed down engine and lubricated controls.
- *Performed post inspection run up and leak check, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 2/11/2020

SIGNED:

Work Order: 6512

Darion McFadden, A&P 4138120

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6570



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 4/2/2020
A/C TSN: 140.5
ENG TT: 140.5
TACH: 140.5

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Washed down engine and lubricated controls.
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 4/2/2020

SIGNED:

Work Order: 6570

Sean McFadden, A&P: 3647763

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6588



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 5/19/2020
A/C TSN: 180.5
ENG TT: 180.5
TACH: 180.5

Engine Entries

- Troubleshoot pilot's report of "Oil on nose intake," found oil pressure relief valve gasket leaking.
- Removed oil pressure relief valve, cleaned, and re-installed using new gasket. Performed operational check of same, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 5/19/2020

SIGNED:

Work Order: 6588

Darion McFadden, A&P 4138120

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Total to Date: _____

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6598



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 6/18/2020
A/C TSN: 196 1
ENG TT: 196 1
TACH: 196 1

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed cylinder visual inspection, differential compression check, and intercylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: #1:66/80 #2:64/80 #3:68/80 #4:70/80.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *C/W ICA Tanis Engine Heater, no defects noted.
- *Checked magneto to engine timing, adjusted as necessary.
- Replaced all worn spark plugs with new.
- Adjusted engine idle and mixture to correct specs per CAMM.
- Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 6/18/2020

SIGNED:

Work Order: 6598

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6614



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 6/30/2020
A/C TSN: 247 4
ENG TT: 247 4
TACH: 247 4

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Washed down engine and lubricated controls.
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 6/30/2020

SIGNED:

Work Order: 6614

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6631



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 7/18/2020
A/C TSN: 284 6
ENG TT: 284 6
TACH: 284 6

Engine Entries

- Removed inoperable manifold pressure sensor and replaced with new. Performed operational check of same, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 7/18/2020

SIGNED:

Work Order: 6631

Darion McFadden, A&P: 4138120

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Page Total: _____

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All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6642



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 8/25/2020
A/C TSN: 296 4
ENG TT: 296 4
TACH: 296 4

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed cylinder visual inspection, differential compression check, and inter-cylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)76/80. 2)74/80. 3)75/80. 4)74/80.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Installed/torqued/softied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted.
- *C/W ICA Tanis Engine Heater, no defects noted.
- *Checked magneto to engine timing, adjusted as necessary.
- Removed fuel injector nozzles, cleaned, inspected, and re-installed. No defects noted.
- Replaced leaking crankshaft seal with new.
- Removed cracked weldment heat shield from fuel servo and replaced with new.
- Removed damaged governor control cable bracket, and replaced with new.
- Removed chipped starter ring gear and replaced with new.
- Removed cracked LH side rear engine baffle and replaced with new.
- Removed deteriorating rubber grommet from aft RH engine baffle and replaced with new.
- Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 8/25/2020

SIGNED:

Darion McFadden, A&P 4138120

Work Order: 6642

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6675



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 9/21/2020
A/C TSN: 351 6
ENG TT: 351 6
TACH: 351 6

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Washed down engine and lubricated controls.
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 9/21/2020

SIGNED:

Sean McFadden, A&P 3647763

Work Order: 6675

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6685



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 10/9/2020
A/C TSN: 376 2
ENG TT: 376 2
TACH: 376 2

Engine Entries

- Troubleshoot "aircraft will not start", found LH magneto retard points defective.
- Removed, cleaned, gapped, tested, reinstalled all 8 spark plugs, no defects noted.
- Removed defective LH magneto and replaced with new (P/N: 4345; S/N off: 19051099, S/N on: 19040694).
- *Checked magneto to engine timing, adjusted as necessary
- Installed adel clamps to secure Tanis engine pre-heater wiring

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 10/9/2020

SIGNED:

Darion McFadden, A&P 4138120

Work Order: 6685

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ENGINE MODEL: IO-390-C3B6
 ENGINE S/N: L-931-80E
 REG. NO: N87VB
 WORK ORDER: 6731



Nassau Flyers
 1300 New Hwy
 Farmingdale, NY 11735
 Phone: 631-454-0626

DATE: 1/6/2021
 A/C TSN: 462 9
 ENG TT: 462 9
 TACH: 462 9

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed cylinder visual inspection, differential compression check, and intercylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)70/80. 2)67/80. 3)70/80. 4)72/80.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested reinstalled all serviceable spark plugs with new gaskets, found top spark plug on cylinder #4 cracked.
- *CW ICA Tanis Engine Heater, no defects noted.
- Removed dirty induction air filter and replaced with new.
- Removed old LH magneto and replaced with new (P/N: 4345; S/N off: 19040694, S/N on: 20070058).
- Removed old RH magneto and replaced with new (P/N: 4370; S/N off: 19030602, S/N on: 19050205).
- *Checked magneto to engine timing, adjusted as necessary.
- Removed damaged spark plug from cylinder #4 and replaced with new.
- Replaced leaking crankshaft seal with new.
- Removed cracked weldment heat shield from fuel servo and replaced with new.
- Removed damaged governor control cable bracket and clip, and replaced with new.
- Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 1/6/2021

SIGNED:

Work Order: 6731

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-390-C3B6
 ENGINE S/N: L-931-80E
 REG. NO: N87VB
 WORK ORDER: 6762



Nassau Flyers
 1300 New Hwy
 Farmingdale, NY 11735
 Phone: 631-454-0626

DATE: 2/22/2021
 A/C TSN: 510.4
 ENG TT: 510.4
 TACH: 510.4

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Washed down engine and lubricated controls.
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 2/22/2021

SIGNED:

Work Order: 6762

Mohammed Farhanuddin, A&P: 4183289

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Total to Date: _____

All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6846



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 6/17/2021
A/C TSN: 656.8
ENG TT: 656.8
TACH: 656.8

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed cylinder visual inspection, differential compression check, and intercylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)62/80. 2)72/80. 3)42/80. 4)70/80.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested all spark plugs and replaced cylinder #3 lower defective spark plug with new and reinstalled all spark plugs with new gaskets, no defects noted.
- *C/W ICA Tanis Engine Heater, no defects noted.
- *Checked magneto to engine timing, adjusted as necessary.
- Removed cylinder #3 due to failed compressions and replaced with new (P/N: 05K26625, S/N off: 2419 8567-036, S/N on: 188023). Performed ground break in procedures per CMI M-O, current revision.
- Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 6/17/2021

SIGNED:

Work Order: 6846

Mohammed Farhanuddin, A&P: 4183289

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6872



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 7/13/2021
A/C TSN: 684.3
ENG TT: 684.3
TACH: 684.3

Engine Entries

- Ran engine to normal operating temperature and checked systems for proper operation, no defects noted.
- *Drained engine oil. Serviced with (7) quarts of (Phillips 20W50 Mineral) Replaced oil filter with new (CH48-110).
- *Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 7/13/2021

SIGNED:

Work Order: 6872

Mohammed Farhanuddin, A&P: 4183289

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ENGINE MODEL IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6882



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 7/23/2021
A/C TSN: 698.5
ENG TT: 698.5
TACH: 698.5

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30
- *Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual
- *Drained engine oil and serviced engine with 7 quarts of Aeroshell 15W50 Replaced oil filter with new (CH48-110) Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted
- Installed baffle plug on new LH aft engine baffle as per SB2X-71-32R1
- Washed down engine and lubricated controls
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 7/23/2021

SIGNED:

Work Order: 6882

Mohammed Farhanuddin, A&P: 4183289

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Total to Date: _____

Certificate Number MUST BE SHOWN

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6898



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 8/18/2021
A/C TSN: 752.4
ENG TT: 752.4
TACH: 752.4

Engine Entries

- * Performed engine operational and function check IAW Cirrus AMM 5-30
- * Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual
- * Ran engine to normal operating temperature and checked systems for normal operation, no defects noted
- * Performed cylinder visual inspection, differential compression check, and inter-cylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)64/80 2)72/80 3)68/80 4)64/80
- * Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil
- * Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted
- * Installed/torqued/saftied new oil filter(CH48-110)
- * Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted
- * CW ICA Tanis Engine Heater, no defects noted
- * Checked magneto to engine timing, adjusted as necessary
- CW Lycoming SB 301b, 400 Hour Valve Check by inspection, no defects noted
- Washed down engine and lubricated controls
- * Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times

DATE: 8/18/2021

SIGNED:

Work Order: 6898

Mohammed Farhanuddin, A&P: 4183289

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6924



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 9/16/2021
A/C TSN: 801.8
ENG TT: 801.8
TACH: 801.8

Engine Entries

- * Performed engine operational and function check IAW Cirrus AMM 5-30.
- * Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- * Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- * Washed down engine and lubricated controls.
- * Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 9/16/2021

SIGNED:

Work Order: 6924

Darion McFadden, A&P: 4138120

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ENGINE MODEL IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 6939



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 10/12/2021
A/C TSN: 838.7
ENG TT: 838.7
TACH: 838.7

Engine Entries

- * Performed engine operational and function check IAW Cirrus AMM 5-30
- * Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- * Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- * Performed cylinder visual inspection, differential compression check, and inter-cylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: #1:68 #2:74 #3:70 #4:74
- * Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- * Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- * Installed/torqued/saftied new oil filter(CH48-110)
- * Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted
- * CW ICA Tanis Engine Heater, no defects noted
- * Checked magneto to engine timing, adjusted as necessary
- Removed fuel injector nozzles, cleaned, inspected, tested, and reinstalled. No defects noted
- Replaced cracked LH fwd side baffle with new
- Washed down engine and lubricated controls
- * Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times

DATE: 10/12/2021

SIGNED:

Work Order: 6939

John Magnowski, A&P: 3273394

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6970



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 11/12/2021
A/C TSN: 890.9
ENG TT: 890.9
TACH: 890.9

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Washed down engine and lubricated controls.
- *Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 11/12/2021

SIGNED:

John Magnowski, A&P: 3273394

Work Order: 6970

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6984



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 12/2/2021
A/C TSN: 915
ENG TT: 915
TACH: 915

Engine Entries

- Removed leaking LH magneto gasket and replaced with new (P/N: LW12681).
- *Checked magneto to engine timing, adjusted as necessary. Performed an operational and leak check of the same, no defects noted.
- Replaced leaky oil filler tube base gasket with new (P/N: 72059). Performed an operational and leak check of the same, no defects noted.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 12/2/2021

SIGNED:

Mohammed Farhanuddin, A&P: 4183289

Work Order: 6984

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG. NO: N87VB
WORK ORDER: 6987



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 12/16/2021
A/C TSN: 932.2
ENG TT: 932.2
TACH: 932.2

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- *Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- *Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- *Performed cylinder visual inspection, differential compression check, and intercylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)70/80 2)76/80. 3)77/80. 4)76/80.
- *Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- *Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- *Installed/torqued/saftied new oil filter(CH48-110).
- *Removed/cleaned/gapped/tested all spark plugs, found all spark plugs to be worn and replaced with new (P/N: REB37E), no defects noted.
- *C/W ICA Tanis Engine Heater, no defects noted.
- *Checked magneto to engine timing, adjusted as necessary.
- Removed dirty induction air filter and replaced with new (P/N: P198290).
- Removed inoperable magneto and replaced with new (P/N: 4345; S/N on: 21070058, S/N off: 21070860).
- Removed magneto for 500 hour inspection and replaced with new (P/N: 4370; S/N off: 19050205, S/N on: 21071193).
- *Checked magneto to engine timing, adjusted as necessary.
- C/W 500 hr alternator #1 inspection by removing and replacing worn alternator #1 with new (P/N: 31089-001; S/N off: H-T061928, S/N on: H-V101758).
- C/W 500 hr alternator #2 inspection by removing and replacing worn alternator #2 with new (P/N: 31090-001; S/N off: H-T072683, S/N on: H-V081731).
- Removed and replaced broken ignition lead on LH magneto cap for cylinder #1 top. Performed an operational check of same, no defects noted.
- Removed and replaced broken ignition lead on RH magneto cap for cylinder #3 bottom. Performed an operational check of same, no defects noted.
- Removed cracked lower right engine mount isolator and replaced with serviceable spare.

1 of 2

- Washed down engine and lubricated controls.
- *Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 12/16/2021

SIGNED:

Mohammed Farhanuddin, A&P: 4183289

Work Order: 6987

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 7038



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 2/25/2022
A/C TSN: 977.8
ENG TT: 977.8
TACH: 977.8

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- Washed down engine and lubricated controls.
- Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 2/25/2022

SIGNED:

Work Order: 7038

Mohammed Farhanuddin, A&P: 4183289

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 7066



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 4/1/2022
A/C TSN: 1026.5
ENG TT: 1026.5
TACH: 1026.5

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- Performed engine 100 hour inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- Performed cylinder visual inspection, differential compression check, and inter-cylinder baffle inspection IAW Lycoming Maintenance Manual. Compression results as follows: 1)71/80. 2)78/80. 3)80/80. 4)71/80.
- Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 7 quarts Aeroshell 15W50 oil.
- Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- Installed/torqued/saftied new oil filter(CH48-110).
- Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted.
- C/W ICA Tanis Engine Heater, no defects noted.
- Checked magneto to engine timing, adjusted as necessary.
- Removed worn engine mound isolator set and replaced with new (P/N: 35196-001).
- Washed down engine and lubricated controls.
- Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 4/1/2022

SIGNED:

Work Order: 7066

Mohammed Farhanuddin, A&P: 4183289

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ENGINE MODEL: IO-390-C3B6
ENGINE S/N: L-931-80E
REG NO: N87VB
WORK ORDER: 7120



Nassau Flyers
1300 New Hwy
Farmingdale, NY 11735
Phone: 631-454-0626

DATE: 6/7/2022
A/C TSN: 1081.6
ENG TT: 1081.6
TACH: 1081.6

Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Lycoming Maintenance Manual.
- Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 7 quarts of Aeroshell 15W50. Replaced oil filter with new (CH48-110). Performed particulate inspection on filter, no discrepancies noted. Removed, inspected, cleaned and reinstalled oil suction screen, no discrepancies noted.
- Replaced oil pressure sensor with new. Performed an operational and leak check of same, no defects noted.
- #1 cylinder oil return line leaking, repositioned and re-torqued clamps. Leak check good.
- Washed down engine and lubricated controls.
- Performed post inspection run up and leak checks with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Lycoming Maintenance Manual.

Maintenance Release

This aircraft, engine, propeller or component(s) on N87VB were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 6/7/2022

SIGNED:

Work Order: 7120

John Magdziowski, A&P: 3273394

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Total to Date: _____