

LYCOMING

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING IO-360-m1A RL-32269-51E
MAKE MODEL SERIAL

FROM _____ 20 _____ TO _____ 20 _____

DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP-1872-1

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October 1994

LYCOMING

Rebuilt Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Serial Number RL-32269-51E
Engine Model IO-360-M1A
Work Order DB564643
Total Time 0.0

Form 2481 Rev 07/12

Low L Adair 3/23/13
Authorized Representative Date

Production Certificate #3

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

ENGINE MODEL:
IO-360-M1A
ENGINE S/N:
RL-32269-51E
REG. NO. N230DS
WORK ORDER: 24852



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone 801-933-7500

DATE: 5/23/2013
AVC TSN 2387.5
ENG TT: 0
TACH: 2387.5

Engine Entries

(1) ENGINE DECOOLED. REMOVED ALL INNER AND OUTER BAFFLE ASSY, REMOVED EXHAUST DISCONNECTED ALL OIL, FUEL AND DRAIN LINES. REMOVED ALL ASSOCIATED ACCESSORIES AND HARDWARE. ENGINE M/N IO-360-M1A S/N L-32399-51A REMOVED WITH ENGINE TT OF 2387.5 INSTALLED REBUILT 0.0 TIME ENGINE M/N IO-360-M1A S/N RL-32269-51E FROM LYCOMING PRODUCTION CERTIFICATE #3 UNDER THEIR W.O. DB564643 DATED 03/23/13 WITH NEW LORD MOUNTS P/N J9613-58 AND NEW BOLTS P/N AN7-43A AND AN7-44A WITH NEW LOCKING NUTS P/N MS21045-7. REINSTALLED ALL INNER AND OUTER ENGINE BAFFLING, EXHAUST, ALL FUEL, OIL AND DRAIN LINES. AND ALL ASSOCIATED ACCESSORIES AND HARDWARE ALL PER DA40 AMM CHAPTER 71-00-00. SERVICED ENGINE WITH 8 QTS OF AVS100 MINERAL OIL. PRE-OILED ENGINE. ALL LEAK AND OPERATIONAL CHECKS SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24852

DATE: 5/23/2013

SIGNED:


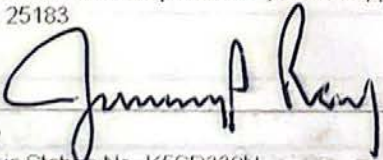
Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: 24852

Printed by EBis 3 (datcomedia.com)

ENGINE LOG

Serial No. _____

| Date | Time | Description | Serial No. | License Number |
|------|------|--|--|--|
| | |  <p>ENGINE MODEL: IO-360-M1A ENGINE S/N: RL-32269-51E REG. NO: N230DS WORK ORDER: 25183</p> <p>Engine Entries</p> <p>(3) ENGINE HAS BEEN INSPECTED FOR AN 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.</p> <p>(7) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 2387.5 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.</p> <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 25183</p> | <p>Repair Station No: K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801-933-7500</p> | <p>DATE: 5/23/2013 A/C TSN: 2387.5 ENG TT: 0 TACH: 2387.5</p> |
| | | <p>DATE: 5/23/2013</p> <p>SIGNED: </p> <p>Jimmy P. Ray Certified Repair Station No. K5SR339N</p> | | <p>Work Order: 25183</p> <p>Printed by EBis 3 (datcomedia.com)</p> |
| | | <p>Brought Forward</p> <p>Total to Date</p> | | <p>All repair data must bear the endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.</p> |

MAKE DIAMOND
MODEL DA-40
S/N 40 599
REG NO N230DS
WORK ORDER P1061



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

Signature

DATE 7/17/2013
A/C TSN 24134
HOBS 3139.9

Airframe Entries

- (1) EXHAUST MUFFLER P/N DA40-7 REMOVED. INSTALLED NEW EXHAUST MUFFLER P/N DA40-7 S/N IUT08-0001 PER DA40 AMM CHAPTER 78-01-00. LEAK AND OPERATIONAL CHECKED SATISFACTORY.
- (2) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 8 QTS A/S 100 MINERAL OIL. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DA40 AMM 12-10-00.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1061

DATE: 7/17/2013

SIGNED:

Jimmy P. Ray
Certified Repair Station No. K5SR339N

A handwritten signature in black ink that reads 'Jimmy P. Ray'.

Work Order: P1061

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ENGINE MODEL
IO-360-M1A
ENGINE S/N
RL-32269-51E
REG. NO. N230DS
WORK ORDER: P1242



Repair Station No. K5SR339N
303 W 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 8/19/2013
A/C TSN: 2468 8
ENG TT: 81.3
TSMOH: 81.3
TACH: 2468 8

Engine Entries

(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DA40 AMM 12-10-0

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1242

DATE: 8/19/2013

SIGNED:

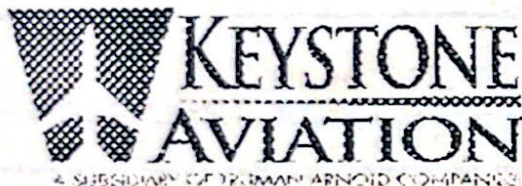
Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1242

Printed by EBis 3 (datcomedia.com)

Certificate Number MUST be Shown

ENGINE MODEL
IO-360-M1A
ENGINE S/N:
RL-32269-51E
REG. NO. N230DS
WORK ORDER #P1263



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 9/6/2013
AVC TSN: 2486.7
ENG TT: 99.2
TSMOH: 99.2
TACH: 2486.7

Engine Entries

(3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.

(4) COMPRESSION TEST *CAW*. . COMPRESSIONS AS FOLLOWS: CYL # 1 79/80, # 2 80/80, # 3 79/80, # 4 80/80.
OPERATIONAL CHECK SATISFACTORY.

(5) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND.
INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS *XG* 20W-50.
RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DA40 AMM 12-10-00.

(9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES *CAW* BY VISUAL INSPECTION PER *MSB 342F*.
CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 2586.7. OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1263

DATE: 9/6/2013

SIGNED:

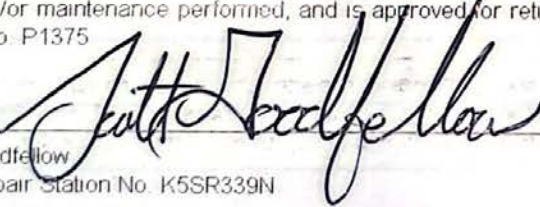
Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1263

Printed by EBis 3 (datcomedia.com)

ENGINE LOG

Serial No. _____

| Date | Time | REPAIRS, ADJUSTMENTS, SERVICE, REMARKS | Signature | License Number |
|------|------|---|---|--|
| | | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>ENGINE MODEL: IO-360-M1A ENGINE S/N: RL-32269-51E REG NO: N230DS WORK ORDER: P1375</p> </div> <div style="width: 30%; text-align: center;">  <p>KEYSTONE AVIATION <small>A SUBSIDIARY OF THE WASHINGTON ENGINE CO. (WEC)</small></p> </div> <div style="width: 20%;"> <p>Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801-933-7500</p> </div> </div> | | |
| | | <p>Engine Entries</p> <p>(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS X/C 20W-50. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DATA BMM 12-10-00.</p> | | |
| | | <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1375</p> | | |
| | | <p>DATE: 10/28/2013</p> | <p>SIGNED: </p> <p>Scott L. Goodfellow Certified Repair Station No. K5SR339N</p> | <p>Work Order: P1375</p> <p>Printed by EBis 3 (datcomedia.com)</p> |
| | | <p>Page Total</p> <p>Brought Forward</p> <p>Total to Date</p> | <p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p> | |

ENGINE MODEL:
IO-360-M1A
ENGINE S/N:
RL-32269-51E
REG NO: N230DS
WORK ORDER: P1468



Repair Station No: K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 1/21/2014
AVC TSN: 2571
ENG TT: 152.3
TSMOH: 152.3
TACH: 2571

Engine Entries

(3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.

(4) ENGINE COMPRESSION CHECK C/W. CHECKED AS FOLLOWS: #1 78/80 #2 78/80 #3 76/80 AND #4 76/80 PER LYCOMING (L)IO-360-M1A MAINTENANCE OVERHAUL MANUAL CHAPTER 70-00-03.

(5) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINATES. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETYED. SERVICED ENGINE WITH 7 QTS OF PHILIPS X/C 20W-50.

(9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342G. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 1685.5 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 1/25/12.

(13) MISSING STARTER BOLT AND WASHERS P/N LW21550.88 INSTALLED.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1468

DATE: 1/21/2014

SIGNED:

Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1468

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ENGINE MODEL
IO-360-M1A
ENGINE S/N.
RL-32269-51E
REG. NO. N230DS
WORK ORDER P1468



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone 801-933-7500

DATE: 1/21/2014
AVC TSN 2589.5
ENG TT 202
TSMOH 202
HOBBS 3373.5

Engine Entries

- (3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.
- (4) ENGINE COMPRESSION CHECK C/W. CHECKED AS FOLLOWS: #1 78/80 #2 78/80 #3 76/80 AND #4 76/80 PER LYCOMING (L)IO-360-M1A MAINTENANCE OVERHAUL MANUAL CHAPTER 70-00-03.
- (5) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINATES. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS X/C 20W-50.
- (9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342G. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 2689.5 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.
- (13) MISSING STARTER BOLT AND WASHERS P/N LW31SS0.88 INSTALLED.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1468

DATE: 1/21/2014

SIGNED:

Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1468

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ENGINE LOG

Serial No. _____

| Date | Time | | REPAIRS - ADJUSTMENTS - SERVICE - REMARKS | Signature | License Number |
|------|------|-----|--|-----------|----------------|
| | Hrs | Min | | | |
| | | | <p>ENGINE MODEL: IO-360-M1A ENGINE S/N: RL-32269-51E REG. NO: N230DS WORK ORDER: P1580</p> <p>Engine Entries</p> <p>(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS X70 20W-50. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DA40 AMM 12-10-00.</p> <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1580</p> <p>DATE: 3/18/2014 SIGNED:  Work Order: P1580</p> <p>Colin M. Robertson Certified Repair Station No. K5SR339N</p> <p>Printed by EBis 3 (datcomedia.com)</p> | | |



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 3/18/2014
A/C TSN: 2639 9
ENG TT: 252.4
T/MOH: 252.4
TACH: 2639.9

Engine Entries

(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS X70 20W-50. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. PER DA40 AMM 12-10-00.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1580

DATE: 3/18/2014

SIGNED:

Work Order: P1580

Colin M. Robertson
Certified Repair Station No. K5SR339N

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|--|--|-----------------|
| | | Page Total |
| | | Brought Forward |
| | | Total to Date |

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE MODEL
IO-360-M1A
ENGINE S/N
RL-32269-51E
REG. NO N230DS
WORK ORDER P1664



Repair Station No. K5SR339N
503 N 2370 W
Salt Lake City, Utah 84116
Phone 801-933-7500

Serial No. DATE 5/23/2014
AVC TSN 2684.5
ENG TT 297
TSMOH 297
TACH 2684.5
Signature

Date

Engine Entries

- (3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.
- (4) ENGINE COMPRESSIONS C/W. COMPRESSIONS AS FOLLOWS: CYL # 1 79/80, # 2 79/80, # 3 78/80, # 4 79/80. CHECKED SATISFACTORY
- (5) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS NONE FOUND. INSTALLED NEW OIL FILTER CH48110-1 AND SAFETIED. ENGINE SUMP SCREEN REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. REINSTALLED SUMP SCREEN WITH NEW GASKET P/N MS35769-21 AND SAFETIED SERVICED ENGINE WITH 8 QTS OF X/C 20W/50. LEAK CHECK SATISFACTORY.
- (9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342G. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 2784.5 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.
- (10) REWORKED OIL COOLER HOSE TO PREVENT CHAFING ON SCAT TUBE.
- (13) RETORQUED #2 #4 #3 ROCKER BOX COVERS. LEAK CHECKED SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1664

DATE: 5/23/2014

SIGNED:

Shane L Record
Certified Repair Station No. K5SR339N

Work Order: P1664

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ENGINE LOG

Serial No.

ENGINE MODEL
IO-360-M1A
ENGINE S/N
RL-32269-51E
REG NO N230DS
WORK ORDER P1760



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE 8/12/2014
A/C TSN 2736 1
ENG. IT. 348 6
TSMOH 348 6
TACH. 2736 1

**License
Number**

Engine Entries

(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS NONE FOUND
INSTALLED NEW OIL FILTER P/N: CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 8 QTS OF X/C 20W/50. LEAK
CHECK SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1760

DATE: 8/12/2014

SIGNED:

Work Order: P1760

Colin M. Robertson
Certified Repair Station No. K5SR339N

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Page Total

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Total to Date

All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.

ENGINE MODEL
IO-360-M1A
ENGINE S/N
RL-32269-51E
REG NO N230DS
WORK ORDER P1887



Repair Station No. K5SR339N
3 1/2 N 2370 W
Salt Lake City, Utah 84116
Phone 801-933-7500

DATE 11/4/2014
A/C TGN 2783.9
ENG TT 396.4
TSMOH 396.4
TACH 2783.9

License
Number

Engine Entries

(3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.

(4) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS NONE FOUND. INSTALLED NEW OIL FILTER CH48110-1 AND SAFETIED. ENGINE SUMP SCREEN REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. REINSTALLED SUMP SCREEN WITH NEW GASKET P/N MS35769-21 AND SAFETIED. SERVICED ENGINE WITH 8 QTS OF X/C 20W/50. LEAK CHECK SATISFACTORY.

(5) ENGINE COMPRESSION CHECK CW, COMPRESSIONS AS FOLLOWS. cYL # 1 79/80, # 2 76/80, # 3 78/80, # 4 74/80. OPERATIONAL CHECK SATISFACTORY.

(9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES CW BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 2873.9 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.

(12) RESECURED LOOSE ATTACH BOLTS ON 3 EXHAUST RISER CLAMPS AND CHECKED THE TORQUE ON REMAINING BOLTS.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1887

DATE: 11/4/2014

SIGNED:



Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1887

Printed by EBis 3 (datcomedia.com)

ENGINE LOG



Serial No. _____

| Date | Time | REPAIRS, ADJUSTMENTS, SERVICE, REMARKS | Signature | License Number |
|---|------|---|---|------------------------------------|
| | |  <p>Repair Station No. K5SR339N 302 N 2370 W Salt Lake City, Utah 84195 Phone: 801-933-7500</p> | <p>DATE: 11/18/2014 A/C: TSN: 2804 5 TACH: 2804 5</p> | |
| <p>Airframe Entries</p> <p>(1) PERFORMED COMPRESSION TEST OF #2 CYLINDER SHOWS 72/80. OPS CHECKED CHT #2. NO DEFECTS NOTED OPS CHECK SATISFACTORY, CLEANED FUEL INJECTOR AND LINE. PERFORMED ENGINE RUN-UP. #2 CHT TEMPERATURE OPS CHECK SATISFACTORY REF: DIAMOND DA-40 71-00-00.</p> <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1914.</p> | | | | |
| DATE: 11/18/2014 | | SIGNED:  | | Work Order: P1914 |
| | | Colin M. Robertson Certified Repair Station No. K5SR339N | | Printed by EBis 3 (datcomedia.com) |

| | | | |
|--|--|-----------------|--|
| | | Page Total | All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown. |
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| | | Total to Date | |


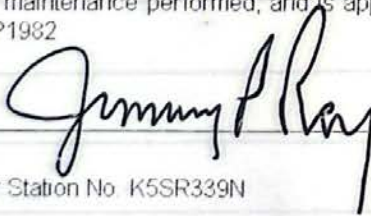
ENGINE LOG

Serial No. _____

| Date | Time <small>Hrs. Min.</small> | REPAIRS - ADJUSTMENTS - SERVICE - REMARKS | Signature | License Number |
|------|----------------------------------|---|---|--|
| | | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>ENGINE MODEL IO-360-M1A ENGINE S/N RL-32269-51E REG NO N230DS WORK ORDER P1947</p> </div> <div style="width: 45%; text-align: center;">  <p>KEYSTONE AVIATION <small>A SUBSIDIARY OF KEISERLY ARNOLD COMPANIES</small></p> </div> <div style="width: 45%;"> <p>Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone 801-933-7500</p> </div> </div> | <p>DATE 12/15/2014 A/C TSN 2819 ENG TT 396.4 TSMOH 396.4 TACH 2819</p> | |
| | | <p>Engine Entries</p> <p>(1) ENGINE OIL DRAINED HOT. REMOVED OIL FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50. RAN AIRCRAFT LEAK CHECKED SATISFACTORY.</p> <p>(2) ENGINE COMPRESSIONS C/W. COMPRESSIONS AS FOLLOWS: CYL # 1 78/80, # 2 78/80, # 3 79/80, # 4 70/80. CHECKED SATISFACTORY</p> | | |
| | | <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1947</p> | | |
| | | <p>DATE: 12/15/2014</p> | <p>SIGNED: </p> <p>Colin M. Robertson Certified Repair Station No. K5SR339N</p> | <p>Work Order: P1947</p> <p>Printed by EBis 3 (datcomedia.com)</p> |
| | | <p>Page Total</p> | <p>All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.</p> | |
| | | <p>Brought Forward</p> | | |
| | | <p>Total to Date</p> | | |

ENGINE LOG

Serial No. _____

| Date | Time <small>Hrs Min</small> | REPAIRS - ADJUSTMENTS - SERVICE - REMARKS | Signature | License Number |
|------|--------------------------------|--|--|--|
| | | <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 45%;"> <p>ENGINE MODEL: IO-360-M1A ENGINE S/N: RL-32269-51E REG. NO: N230DS WORK ORDER: P1982</p> </div> <div style="width: 20%; text-align: center;">  <p>KEYSTONE AVIATION <small>A SUBSIDIARY OF TRIGANI ARNOLD COMPANIES</small></p> </div> <div style="width: 30%;"> <p>Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801-933-7500</p> </div> </div> | | |
| | | <p>Engine Entries</p> <p>(3) CYLINDER RETURN OIL DRAIN LINES RESECURED.</p> | | |
| | | <p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1982</p> | | |
| | | <p>DATE: 1/12/2015</p> | <p>SIGNED: </p> <p>Jimmy P. Ray Certified Repair Station No. K5SR339N</p> | <p>Work Order: P1982</p> <p>Printed by EBis 3 (datcomedia.com)</p> |
| | | <p>Page Total</p> <p>Brought Forward</p> <p>Total to Date</p> | <p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p> | |

Engine Log Book

| | | |
|-------------------------------------|---------------------------|----------------------|
| Date: 05/26/2015 | Tach: 2846.7 hours | Hobbs: 3707.3 |
| Reg No: N230DS | AF TT: | Engine TT: |
| Aircraft type: Diamond DA-40 | Prop TT: | Engine SMOH: |
| Serial No: 40.599 | Prop SMOH: | |

1. Drained oil, removed filter, and removed screen for inspection.
2. Cut filter and checked suction screen. Both checked good.
3. Installed new CH48110-1 oil filter and safety wired both the filter and suction screen.
4. Serviced engine with 7 quarts of Aeroshell 15w50.
5. Performed engine run up.
6. Engine run up checked good and no leaks were found.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 05/26/2015

Signed: 

Robert Austin Bourland A&P 3795668

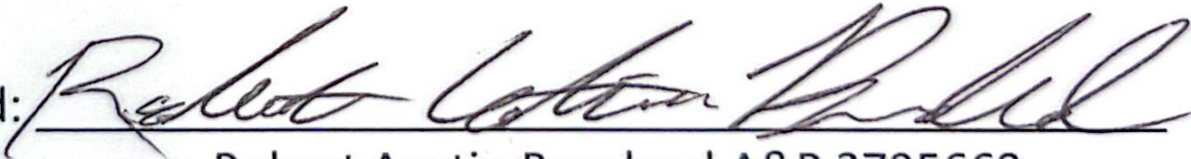
Engine Book

| | | |
|-----------------------------|---------------------|----------------------|
| Date: 08/20/2015 | Tach: 2896.1 | Hobbs: 3767.8 |
| Reg No: N230DS | AF TT: | Engine TT: |
| Aircraft type: DA-40 | Prop TT: | Engine SMOH: |
| Serial No: 40.599 | Prop SMOH: | |
| | | |

1. Drained oil. Removed oil filter and cut. No questionable matter found.
2. Removed suction screen and found no debris.
3. Installed suction screen with new crush gasket.
4. Installed new oil filter 0001. P/N: CH48110-1
5. Serviced engine with 7 quarts of Aeroshell w15w50.
6. Ran engine and found no leaks.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 08-20-2015

Signed: 

Robert Austin Bourland A&P 3795668

ENGINE LOG

Serial No. _____

Engine Book

| | | |
|-----------------------------|---------------------------|----------------------------|
| Date: 10/19/2015 | Tach: 2924.2 hours | Hobbs: 3802.7 hours |
| Reg No: N230DS | AF TT: | Engine TT: |
| Aircraft type: DA-40 | Prop TT: | Engine SMOH: |
| Serial No: 40.599 | Prop SMOH: | |
| | | |

License
Number

1. Removed oil return line from cylinder #2.
2. Installed new oil return line on cylinder #2 P/N: APS-68760

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 10/19/2015

Signed: 

Robert Austin Bourland A&P 3795668

29.5

Engine Log Book

| | | |
|---------------------|------------------|--------------------|
| Date: 1/6/2016 | Tach: 2934.9 | Hobbs: 3816.2 |
| Reg No: N230DS | AF TT: 2934.9 | Engine TT: 547.4 |
| Aircraft type: DA40 | Prop TT: 2934.9 | Engine SFRM: 547.4 |
| Serial No: 40.599 | Prop SMOH: 547.4 | |

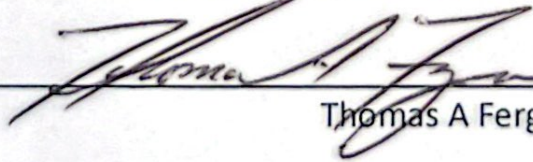
1. I certify that this engine has been inspected in accordance with an Annual inspection and found to be in airworthy condition. Inspection performed in accordance with FAR 43 appendix D, using the Diamond DA40 Maintenance Manual inspection guide as a reference.
2. c/w AD 2015-19-07 by inspection of fuel injector lines. Next due Tach 2934.9
3. Compressions: 1-77/80 2-76/80 3-75/80 4-72/80
4. Serviced engine with 7 quarts Aeroshell 15W50 oil and new CH48110-1 filter. Cut open old filter and inspected. No abnormal particles found in filter.
5. Cleaned, inspected and rotated spark plugs
6. Cleaned all fuel injectors
7. Installed new oil pressure regulator valve (p/n 77808). Ops check good.
8. Ground ran engine and ops checked. No leaks noted at this time.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date:

Jan 6, 2016

Signed:



Thomas A Ferguson AP/IA 3020594



ENGINE LOG

Serial No. _____

4316 Hangar Drive Lexington, KY 40510 859-255-1902

Date

Hrs Min

REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Signature

License Number

Engine Log Book

Date: 3/16/2016

Shop Order: M-16-5607

Reg No: N230DS

Aircraft: Diamond DA40

Serial No. 40.599

Tach: 2954.8

Hobbs: 3847.2

Eng TSN: 570.9

Prop TSOH: 570.9

Prop TT: 2954.8

1. Removed oil filter for inspection. No abnormal contamination or metallic particles found. Installed and safetied new CH48110-1 filter and added 1qt Aeroshell 15w-50. Ground run was normal with no leaks noted.
2. Engine compressions taken hot: 1=76/80 2=76/80 3=78/80 4=74/80

The aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date:

3/16/2016

Signed

Kenneth M.Harker AP3613483IA

Page Total

Brought Forward

Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

D:

Primeplanes Aircraft Services Inc.

111 Aviation Drive North
Naples, Florida 34104, ph. 239-659-4005



REG. **N230DS** TYPE **IO-360-M1A** TACH **2989.9** HOBBS **3890.4**

C/W 50 hour inspection: Drained oil, removed and replaced filter with new P/N CH48110-1, added 7 qts of Aeroshell 15W-50 oil. Inspected old filter for metals, none noted at this time. Performed operational run-up/leak check. No leaks noted at this time.

Signature

Valerie Hell
Valerie Hell A&P 3812731

Date

4/19/2016

Signature

License
Number

Page Total

Brought Forward

Total to Date

All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.

Primeplanes Aircraft Services Inc.

111 Aviation Drive North
Naples, Florida 34104, ph. 239-659-4005



Date

REG. **N230DS** TYPE **IO-360-M1A** TACH **3034.5** TSN **647**

C/W a 100 hour inspection IAW FAR Part 43 Appendix D, using Diamond DA-40 MM checklist as a guide. Performed a compression check, results #1 - 74/80, #2 - 73/80, #3 - 73/80, #4 - 73/80. Drained oil, removed and replaced oil filter with new P/N CH48110-1. Cut open old filter and inspected for metal, none noted at this time. Inspected and cleaned finger screen. Added 7 quarts of Aeroshell 15W-50 oil. Serviced fuel system, checked and retimed mags to 25* BTDC per dataplate. Removed, cleaned, inspected, re-gapped, tested, rotated and reinstalled spark plugs. Removed and replaced Air filter with new. P/N FR-08506. Removed and replaced Fuel strainer filter with new P/N FIA 375. Removed, cleaned, inspected and reinstalled fuel strainer drain due seeping. ops check good. Tightened Alternator belt. C/W AD2015-19-07 fuel injector lines. No discrepancies noted at this time. Researched AD's through 07/06/2016. Performed operational ru-up leak check. no leaks noted at this time. I certify that this Engine has been inspected IAW a 100 hour inspection, and is Determined to be in an airworthy condition---END---

Signature

Simon Crawford, A&P 3277003

Date

7/6/2016

Brought Forward

Total to Date

Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

DATE: 11/10/2016
PAGE: 1
TOTAL PAGES: 1



DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF INSURANCE REGULATION
1100 MARKET STREET, SUITE 1000
PHILADELPHIA, PA 19107-4500

DATE: 11/10/2016
PAGE: 1
TOTAL PAGES: 1

Page 1 of 1

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DATE: 11/10/2016

SEEN:

DATE: 11/10/2016

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| Total to Date |

All Health Data Must Be the Responsibility of a Certified Member and the Member's Certified Member MUST be aware.

ENGINE LOG

Serial No. _____

| Date | Time | | REPAIRS - ADJUSTMENTS - SERVICE - REMARKS | Signature | License Number |
|------|------|-----|---|-----------|----------------|
| | Hrs | Min | | | |

ENGINE MODEL: IO-360-M1A
 ENGINE S/N: RL-32269-51E
 REG. NO: N230DS
 WORK ORDER: 7714-09-2016



TC Aero Group

200 Aviation Drive N Suite #6
 Naples, FL 34104
 Phone: 888-778-7443

DATE: 11/2/16
 A/C TSN: 3102.2
 ENG TT: 714.7
 TSMOH: 714.7
 TACH: 3102.2

Engine Entries

Removed L/H and R/H magnetos. C/W 500hr inspection. Retimed and installed magnetos. Retimed mags to engine. Operational check good.

The aircraft, airframe, engine, propeller, or appliance above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

DATE: 11/2/16 SIGNED: Ken A. Boynton A#264519426
 Work Order: 7714-09-2016
 Printed by EBis 3 (datcomedia.com)

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| | | | Page Total | All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown. |
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| | | | Total to Date | |

MAKE: Diamond
 MODEL: DA 40
 S/N: 40.599
 REG. NO: N230DS
 WORK ORDER: 7870-11-2016



DATE: 11/23/16
 A/C TSN: 3140.4
 HOBBS: 4097.4

Date

ENGINE
Airframe Entries

REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Signature

License
 Number

Removed upper and lower cowlings, found one of the two CHT probes on #2 cylinder unplugged, Unplugged Garmin CHT probe and ops checked. Probe value climbed at a systematic pace. cleaned CHT probe connector, and reconnected. value stabilized at ambient air temp. Reinstalled both cowls.

The aircraft, airframe, engine, propeller, or appliance above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

DATE: 11/23/16 SIGNED: *Simon Crawley* **SIMON CRAWLEY** Work Order: 7870-11-2016
AOP 3277003 Printed by EBis 3 (datcomedia.com)

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| Total to Date | |

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE MODEL: IO-360-M1A
ENGINE S/N: RL-32269-51E
REG. NO: N230DS
WORK ORDER: 8032-02-2017

ENGINE LOG

Naples, Dba:



Serial No. _____
DATE: 2 / 22 / 17
A/C TSN: 3192.2
ENG TT: 874.4
TSMOH: 874.4
TACH: 3192.02
License Number _____

Date _____ Hrs _____ Min _____
REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Engine Entries

Performed annual engine inspection IAW FAR 43 appendix D. Drained engine oil and installed 7 qts. of Aeroshell 15W-50. Removed oil filter and installed new CH-48110-1. Old filter opened and inspected for metal. Performed compression check Cyl. #1 - 74 #2 - 72 #3 - 76 #4 - 78. Complied with AD 2015-19-07 by visual inspection. AD's checked thru 2017-02. I certify that this engine has been inspected in IAW an annual inspection and is in an airworthy condition.

The aircraft, airframe, engine, propeller, or appliance above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

DATE: 2 / 22 / 17

SIGNED:

Work Order: 8032-02-2017

William Braybrooke ACP 3387241 IA
Printed by EBis 3 (datcomedia.com)

| |
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| Total to Date |

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

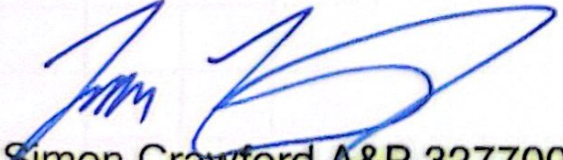
Aircraft :- N230DS

Engine :- IO-360-M1A S/N :- RL-32269-51E

Date :- 7/14/2017

Tach :- 3292.6 Hobbs :- 4294.0

C/W a 100 hour Engine inspection IAW FAR Part 43, appendix D. Using Diamond DA-40 MM checklist as a guide. Performed a compression check, #1 - 76/80, #2 - 76/80, #3 - 75/80, #4 - 74/80. Drained oil, removed oil filter, cut open and checked oil filter for metal. None noted. Removed and service finger screen, reinstalled using new crush gasket. Installed new oil filter P/N CH48110-1. Added 7 quarts of Aeroshell 15W-50 oil. Serviced fuel system as required. Checked magneto timing. Removed, cleaned, inspected, regapped, tested and reinstalled spark plugs. Torqued to 32lbs/ft. C/W AD2015-19-07 fuel injection lines, no discrepancies noted at this time. AD's researched through 7/14/2017. Performed operational run/up leak check, no discrepancies noted at this time. I certify that this engine has been inspected IAW a 100 hour inspection, and is determined to be in an airworthy condition — — end — —


Simon Crawford A&P 3277003.

Brought Forward
Total to Date

Certificated mechanic, and his rating and Certificate Number MUST be Shown.



ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N230DS

Engine Manufacturer Lycoming

Model IO-360-M1A

Serial No. RL-32269-51E

Date installed on aircraft 5/23/13

Time Between Overhauls (TBO) _____ Hours

Tach - 2387.5

If used on multi-engine aircraft:

- Right Left
 Front Rear



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1-800-235-6444
FAX: (631) 765-9359

Engine Log Book
March 23, 2018

| | | |
|----------------------------------|----------------------------|------------------------------------|
| Reg No: N230DS | Aircraft type: DA40 | Aircraft S/N: 40.599 |
| Tach: 3402.5 | Hobbs: n/a | Aircraft Total Time: 3402.5 |
| Engine Total Time: 1015.0 | Engine SMOH: n/a | Engine S/N: RL-32269-51E |
| Prop Total Time: 3402.5 | Prop SMOH: 1015.0 | Prop S/N: CH39313B |

1. I certify that this engine has been inspected in accordance with an Annual inspection and found to be in airworthy condition. Inspection performed in accordance with FAR 43 appendix D, using the Diamond DA40 maintenance manual inspection guide as a reference.
2. Serviced engine 8 quarts Aeroshell 15W50 oil and new oil filter.
3. c/w AD 2015-19-07 by inspection of fuel injector lines. Checked good. Next due: 3502.5 or next annual.
4. Cleaned, gapped and inspected all spark plugs.
5. Cleaned and inspected fuel injectors.
6. Installed new air seal around oil cooler inlet and around induction air filter inlet.
7. Installed new induction air filter.
8. Repaired inlet air scoop by manufacturing patch from 2024-T3 aluminum and riveting on.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: March 23, 18

Signed: _____

Thomas A Ferguson AP/IA 3020594

Engine Log Book
March 23, 2018

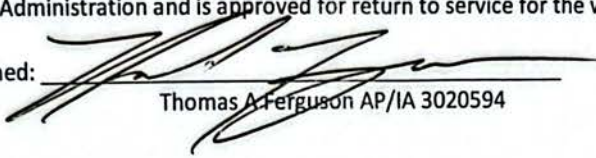
DATE

| | | |
|---------------------------|---------------------|-----------------------------|
| Reg No: N230DS | Aircraft type: DA40 | Aircraft S/N: 40.599 |
| Tach: 3402.5 | Hobbs: n/a | Aircraft Total Time: 3402.5 |
| Engine Total Time: 1015.0 | Engine SMOH: n/a | Engine S/N: RL-32269-51E |
| Prop Total Time: 3402.5 | Prop SMOH: 1015.0 | Prop S/N: CH39313B |

1. I certify that this engine has been inspected in accordance with an Annual inspection and found to be in airworthy condition. Inspection performed in accordance with FAR 43 appendix D, using the Diamond DA40 maintenance manual inspection guide as a reference.
2. Serviced engine 8 quarts Aeroshell 15W50 oil and new oil filter.
3. c/w AD 2015-19-07 by inspection of fuel injector lines. Checked good. Next due: 3502.5 or next annual.
4. Cleaned, gapped and inspected all spark plugs.
5. Cleaned and inspected fuel injectors.
6. Installed new air seal around oil cooler inlet and around induction air filter inlet.
7. Installed new induction air filter.
8. Repaired inlet air scoop by manufacturing patch from 2024-T3 aluminum and riveting on.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: March 23, 18

Signed: 
Thomas A Ferguson AP/IA 3020594

August 10, 2018

TAC TIME 3346.8

HOBS 4496.4

DRAINED OIL REPLACED OIL FILTER WITH TEMPEST AA48110-2
ADDED 7 QT OF AEROSHELL 15W-50
PERFORMED RUN UP / LEAK CHECK
NO LEAK FOUND
7 QT OIL ADDED





8-10-18

| | | |
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| | | |

SUB-TOTALS this page

TOTALS-Carry forward to next page

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---|-----------------------|---------------------------|------------------------------|--|
| | | | | TOTALS brought forward from previous page |
| Aug 25 2018 | | | | TAC TIME |
| OCT 25 2018 | | | | HOBAS TIME |
| | | | | 3400.2 |
| | | | | 4496.4 |
| | | | | DRAINE OIL REPLACED OIL FILTER w/ TEMPEST # AA 48110-2 |
| | | | | ADD 7 QTS AEROSHELL W15W50 |
| | | | | PERFORMED RUN UP / LEAK CHECK NO LEAKS FOUND |
| | | | |  10-25-18 |
| <p><i>UW</i> 2/5/2019 ENGINE LOG ENTRY N230DS TACH:4580.8</p> <p>Completed a 100 hr. inspection of this ENGINE In Accordance With FAR 43 Appendix (d) and the Diamond DA40 Maintenance Manual Inspection Checklist. AD's reviewed and complied with through 2019-2/-3. Changed engine oil and filter, inspected filter media and suction screen, no debris noted. Serviced with Aeroshell 100W Plus. Compression test results: 78, 76, 78, 78 over 80 PSI. Serviced spark plugs, verified magneto timing. Clean fuel screen. Inspected flexible hoses, no defects found. Inspected vibration isolators and engine mount, ok. Post inspection run up and leak check good. "The ENGINE noted above has been inspected/repared IAW the above references and has been found to be in an airworthy condition and has been approved for return to service".</p> <p>MICHAEL HUGHES AP/IA 3361639 </p> | | | | |
| | | | | SUB-TOTALS this page |
| | | | | TOTALS-Carry forward to next page |

2/24/2020

ENGINE LOG ENTRY N230DS

Hobbs
TACH: 4658.9

Completed a 100hr inspection of this ENGINE at time of annual inspection, In Accordance With FAR 43 Appendix (d) and the Diamond Aircraft DA40 Maintenance Manual Inspection Checklist. AD's reviewed and complied with through 2020-04-05. Changed engine oil and filter. Serviced with Aeroshell 100W Plus. Inspected filter and suction screen, no debris noted. Compression test results: 80, 78, 78, 80 over 80 psi. Verified magneto timing. Serviced spark plugs. Inspected all flexible oil and fuel hoses For condition and security, ok. Inspected engine mount and vibration isolators, ok. Post inspection run up and leak check satisfactory. "The ENGINE noted above has been inspected/repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service".

MICHAEL HUGHES AP/IA 3361639 *[Signature]*

| | | | | |
|--------|--------------------|---------|--|--|
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| | | | | |
| | | | | |
| 6-4-20 | MID YR. OIL Change | | | |
| | 4680.8 | | | |
| | 4658.9 | 21.9 Hr | | |

Appx 3604.2 TACH
←

wo: WO2020169

Engine - page 1 of 1

CURTIS AIR

Curtis Air - 176 Harrison Street - Pittsfield, ME 04967 - 2074875213

N230DS
TACH: 3643.2

Lycoming, IO-360-MIA, S/N: RL-32269-51E
ETT: 1255.7 SMOH: 1255.7

November 17, 2020

1. Found AD 2017-16-11 to be N/A per engine S/N and dates of engine work.
2. Complied with Fuel injector line inspection per AD 2015-19-07. Next Due: TACH 3753.2.
3. Perform hot compression check. Results: #1: 79 /80, #2: 79 /80, #3: 79 /80, #4: 79 /80.
4. Drained oil, removed filter and checked for metal, none found. Installed a new oil filter and saftied. Performed engine service items: Installed (1) CH48110-1 - Oil Filter, & (7qt) 15W50 - AeroShell W 15W50 Oil.
5. Re-adjust magneto timing to 25 degrees BTC
6. Tightened and saftied oil dipstick tube. .
7. Ran engine, no leaks noted.
8. This engine has been inspected in accordance with an annual inspection and found to be airworthy at this time.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Curtis Air under work order: WO2020169.

Caleb Curtis A&P IA 2679256 *Caleb K Curt*

SUB-TOTALS this page

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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------|---------------------------|------------------------------|---|
| | | | | TOTALS brought forward from previous page |
| 5/6/21 | | | 4868.4 | REMOVE + INSTALL NEW SKY-TEC #H-V021874 |
| 5/12/21 | | | 4868.4 | REMOVE + INSTALL NEW SLICK START MODULE UNIT |

5/18/2021

ENGINE LOG ENTRY N230DS

HOBBS: 4871.2

Completed a 100 hr Inspection of this ENGINE In Accordance With FAR 43 Appendix (d) and the Diamond Aircraft DA 40 Maintenance Manual Inspection Checklist. Reviewed and complied with all recurring AD's through 2021-10/11. Changed engine oil and filter, serviced with Aeroshell 100 Plus. Inspected engine oil filter media and suction screen, no debris noted. Compression test results: 78,76,78,78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system for condition and security, ok. Inspected all flexible oil and fuel hoses for condition and security, ok. Inspected engine mount and vibration isolators, ok. Post inspection run up and leak check satisfactory.

MICHAEL HUGHES AP/IA 3361639

Tach Time 3743.2

SMOH 1355.7 HR

10/11/2021

ENGINE LOG ENTRY N230DS

HOBBS: 4962.9

Completed a 100 hr inspection of this ENGINE in reference to FAR 43 Appendix (d) and the Diamond DA 40 Maintenance Manual Inspection Checklist. Changed engine oil and filter, serviced with 8 quarts Aeroshell 100 Plus. Inspected firewall forward, no defects noted. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639

Tach Time 3843.2

SMOH 1455.7 HR

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TACH 3873.2

11/28/2021

ENGINE LOG ENTRY N230DS


HOBBS: 4978.4

Completed a 100 ~~hr~~ hr inspection of this ENGINE at time of annual inspection, In Reference To FAR 43 Appendix (d) and the Diamond Aircraft DA40 Maintenance Manual Inspection Checklist. AD's reviewed and complied with through 2021-24/25. Changed engine oil and filter, serviced with Phillips 100AW. Inspected engine oil filter and suction screen, no debris noted. Compression test results: 78,79, 76, 78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system for condition and security, ok. Inspected flexible oil and fuel hoses for condition and security, no defects found. Inspected engine mount and vibration isolators, ok. Post inspection run up and leak check satisfactory. "The ENGINE noted above has been inspected/repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service ". MICHAEL HUGHES AP/IA 3361639 

12/29/2021

ENGINE LOG ENTRY N230DS


HOBBS: 5002.0

Changed engine oil and filter, serviced with 8 qts. Phillips 100AW. Serviced spark plugs. Inspected firewall forward, no issues noted. Aircraft returned to service.
MICHAEL HUGHES AP/IA 3361639 

4/29/2022

ENGINE LOG ENTRY N230DS

TACH: 3871.0 

Completed a 100 hr inspection of this ENGINE In Reference To FAR 43 Appendix (d) and the Diamond DA40 Maintenance Manual Inspection Checklist. Changed engine oil and filter, serviced with 8qts. Phillips 100AW. Serviced spark plugs, verified magneto timing. Inspected all flexible oil and fuel hoses, ok. Aircraft returned to service.
MICHAEL HUGHES AP/IA 3361639 

7/9/2022

ENGINE LOG ENTRY N230DS




TACH: 3919.9

Completed a 50 hr Inspection of this engine In Reference To FAR 43 Appendix (d) and the scope and detail of the Diamond DA40 Maintenance Manual Inspection Checklist. Changed engine oil and filter, serviced with Phillips 100AW. Inspected oil filter media, no debris noted. Serviced spark plugs, verified magneto timing. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639 

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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------------------|-----------------------|---------------------------|------------------------------|--|
| | | | | TOTALS brought forward from previous page |
| 1/2/2023 | | | | ENGINE LOG ENTRY N230DS HOBBS: 5460.2 Completed an annual inspection of this engine in reference to FAR 43 appendix (d). Changed engine oil and filter. Serviced with Phillips 100 AW. Inspected filter media and suction screen, no debris noted. Compression test results: 76,76,75,78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system for condition, ok. Inspected all flexible oil and fuel hoses, ok. Post inspection run up and leak check satisfactory. "The ENGINE noted above has been inspected/repared IAW the above references and has been found to be in an airworthy condition and has been approved for return to service". MICHAEL HUGHES AP/IA 3361639  |
| 1/9/2024 | | | | ENGINE LOG ENTRY N230DS HOBBS: 5510.4 Completed an annual inspection of this engine in accordance with FAR 43 appendix (d) and the scope and detail of the Diamond DA-40 Maintenance Manual. Changed engine oil and filter, serviced with Phillips 100AW. Inspected filter media and suction screen, no debris noted. Compression test results: 77,75,75,78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system, ok. Post inspection run up and leak check good. "The engine noted above has been inspected/repared IAW the above references and has been found to be in an airworthy condition and has been approved for return to service". MICHAEL HUGHES AP/IA 3361639  |
| 10/2/2024 | | | | ENGINE LOG ENTRY N230DS HOBBS: 5589.4 Removed magnetos (2) for repair, s/n 12030801, and s/n 97020104. Repairs done at Eagle Magneto, New Smyrna Beach. Installed repaired magnetos and set timing IAW Lycoming specs. Post installation run-up and leak check satisfactory. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639  |
| | | | | SUB-TOTALS this page |
| | | | | TOTALS-Carry forward to next page |

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|---------------------------|------------------------------|---|
| | | | | TOTALS brought forward from previous page |

1/2/2023 ENGINE LOG ENTRY N230DS HOBBS: 5460.2

Completed an annual inspection of this engine in reference to FAR 43 appendix (d). Changed engine oil and filter. Serviced with Phillips 100 AW. Inspected filter media and suction screen, no debris noted. Compression test results: 76,76,75,78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system for condition, ok. Inspected all flexible oil and fuel hoses, ok. Post inspection run up and leak check satisfactory. "The ENGINE noted above has been inspected/repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service". MICHAEL HUGHES AP/IA 3361639

1/9/2024 ENGINE LOG ENTRY N230DS HOBBS: 5510.4

Completed an annual inspection of this engine in accordance with FAR 43 appendix (d) and the scope and detail of the Diamond DA-40 Maintenance Manual. Changed engine oil and filter, serviced with Phillips 100AW. Inspected filter media and suction screen, no debris noted. Compression test results: 77,75,75,78 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system, ok. Post inspection run up and leak check good. "The engine noted above has been inspected/repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service". MICHAEL HUGHES AP/IA 3361639

10/2/2024 ENGINE LOG ENTRY N230DS HOBBS: 5589.4

Removed magnetos (2) for repair, s/n 12030801, and s/n 97020104. Repairs done at Eagle Magneto, New Smyrna Beach. Installed repaired magnetos and set timing IAW Lycoming specs. Post installation run-up and leak check satisfactory. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639

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MAINTENANCE RELEASE:

SERVICEABLE PARTS TAG

repaired as necessary _____ ~~overhauled per appr Mfr Manual~~
his magneto was tested in accordance with Federal Aviation Administration
Regulations. Approved for return to service. All parts on work order # 6237
On record at Eagle Magneto Inc.

Manufacturer _____ Bendix/TCM Slick/Champion Model 4370

Serial Number 97020104 Part Number _____

Notes: 500 hr complete See AD compliance record dated _____

Signed [Signature] Cert# MP 268866 217 Date 09-27-2024

Eagle Magneto Inc

404 United Drive * New Smyrna Beach, FL 32168

Office 386-410-4710 Cell 386-235-3152

www.eaglemagneto.com

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|----------|-----------------------|---------------------------|------------------------------|--|
| | | | | TOTALS brought forward from previous page |
| 11/61/24 | 5618.9 | | | <p>(Hobbs)</p> <p>Completed a 100 hr inspection of this engine. Changed engine oil and filter. Inspected firewall forward, no defects noted. Repaired 'shorted' wire for nav/strobe lights, OK now. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639</p> |

TACH: 4327.9

2/01/2025 ENGINE LOG ENTRY N230DS HOBBS: 5695.4

Completed an annual inspection of this engine in reference to FAR 43 appendix (d). Changed engine oil and filter. Serviced with Phillips 100AW. Inspected filter media and suction screen, no debris noted. Compression test results: 76, 72, 74, 76 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system and all flexible oriole and fuel hoses, no defects noted. Post inspection run-up and leak check satisfactory. "The engine noted above has been inspected/repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service ". MICHAEL HUGHES AP/IA 3361639

6/13/2025 ENGINE LOG ENTRY N230DS HOBBS: 5697.1

Completed a 100 hr inspection of this engine in reference to FAR 43 appendix (d). Changed engine oil and filter. Serviced with Phillips 100AW. Serviced spark plugs. Verified magneto timing. Inspected exhaust system and all flexible oil and fuel hoses. Post inspection run-up and leak check good. Aircraft returned to service. MICHAEL HUGHES AP/IA 3361639

4/28/2026 ENGINE LOG ENTRY N230DS HOBBS: 5697.2

Annual, EL Airframe

Completed an annual inspection of this engine in reference to FAR 43 appendix (d). Changed engine oil and filter, serviced with Phillips 100AW. Inspected filter media and suction screen. No debris noted. Compression test results: 70, 65, 74, 66 over 80 psi. Serviced spark plugs, verified magneto timing. Inspected exhaust system and engine mount, no defects noted. Inspected all flexible oil and fuel hoses, no defects noted. Post inspection run-up and leak check good. "The engine noted above has been inspected / repaired IAW the above references and has been found to be in an airworthy condition and has been approved for return to service". MICHAEL HUGHES AP/IA 3361639