

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL IO-360-M1A SERIAL NO. L-29856-51A
DATE 4-25-01 Joe Moore
(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

CP 1015 3/94

ENGINE LOG

1. Make TEXTRON LYCOMING
2. Model TIO-360-M1A
3. Specification 1E10
4. Manufacturer's Serial Number L-29856-51A
5. Date of Manufacture _____
6. Aircraft Inspection Cycle _____

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→		11	: 2	TIMES BROUGHT FORWARD FROM



Date: 10 September, 2001 S/N: 40045 Reg: N445DS WO#: RO-01-101
 Engine S/N: L-29856-51A Eng TTSN: 11.2

Engine de-preservation carried out per de-preservation check sheet VA-P-09-05.
 Ground run-up of engine performed. Found to be satisfactory.

The following S/B and S/I have been carried out as applicable:
 DAI SI 40-002 / Lycoming Mandatory S/B 548 – Engine Driven Fuel Pump replacement – N/A by S/N.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93

Signature *Neil Ahmad* Lic or Stamp DA R06



Date: 10/04/01 **N Number:** N445DS

Tach: 32.3

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Jason Bradley
 Jason A. Bradley AP 273904569



Date: 10-17-01 **N Number:** N455DS

Tach: 49.8

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Jason Bradley
 Jason A. Bradley AP 273904569

TOTAL THIS PAGE			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			

CARRIED FORWARD

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
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AUSTRIAN LOGS.

Paul [Signature]

DA
ROB



Date: 11/06/01 **N Number:** N445DS

Tach: 72.1

Description of Work Performed:

Removed #2 & #4 exhaust risers. Installed new risers P/N DA40-5 A, P/N DA40-3 REV-A.

Jason Bradley
Jason A. Bradley AP 273904559



Date: 12/19/01 **N Number:** N445DS

Tach: 99.3 **TT Engine:** 99.3 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 75/80, 2) 75/80, 3) 74/80 and 4) 76/80. Cleaned, gapped and tested all spark plugs. Installed new exhaust risers on all cylinders. AD 93-02-05 C/W by inspection of fuel lines and clamps. AD's reviewed and C/W up to this date, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service. I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Jason Bradley
Jason A. Bradley AP 273904559

JAN 10, 2002, TACH 126.8 - REPLACED 4 EXHAUST STACKS WITH NEW, INSTALLED WITH 75/118 GASKETS.

Paul [Signature] 55290385010



Date: 02/08/02 **N Number:** N445DS

Tach: 149.7

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Jason Bradley
Jason A. Bradley AP 273904559

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORW



Date: 03/28/02 **N Number:** N445DS
Tach: 198.9 **TT Engine:** 198.9 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 78/80, 2) 77/80, 3) 75/80 and 4) 77/80. Cleaned, gapped and tested all spark plugs. Installed new muffler P/N DA40-7. Oil filter removed and cut open, no particles of defect noted. Installed new #3 exhaust riser P/N DA40-2. AD 93-02-05 C/W by inspection of fuel lines and clamps. All AD's reviewed and C/W up to this date, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Jason Bradley
 Jason A. Bradley AP 273904559



Date: 05/17/02 **N Number:** N445DS

Tach: 249.3

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Allen Logan
 Allen Logan AP 2669982



Date: 05/20/02 **N Number:** N445DS

Tach: 249.3

Description of Work Performed:

Removed and replaced #4 exhaust riser. P/N DA40- 5A, Ops. check good.

Jason Bradley
 Jason A. Bradley AP 273904559

CARRIED FORWARD

THIS PAGE

FROM SUMMARY

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER



Date: 08-23-02 **N Number:** N445DS

Tach: 297.9 **TT Engine:** 297.9 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 77/30, 2) 77/80, 3) 76/80 and 4) 76/80. Cleaned, gapped and tested all spark plugs. Oil filter removed, cut open, no defective particles noted. Installed new alternator (p/n LW14326)(s/n C050005). operational check good. AD 93-02-05 Eff. 06/14/93 C/W per AD by inspection of fuel lines and hardware. AD's reviewed and C/W up to this date, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with an Annual inspection and it has been determined to be in airworthy condition.

Jay C. Harper

Jay C. Harper AP 607055663

Gilbert C. Schoales Jr.

Gilbert C. Schoales Jr. AP 19543741 IA



Date: 10/10/02 **N Number:** N445DS

Tach: 347.3

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

James J. Royce

James J. Royce AP 2658353



Date: 12/10/02 **N Number:** N445DS

Tach: 396.3 **TT Engine:** 396.3 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 77/30, 2) 75/80, 3) 76/80 and 4) 76/80. Cleaned, gapped and tested all spark plugs. Retorqued #1 intake. Realigned and retorqued #1 exhaust. Replaced three sparkplugs. Trimmed baffle skirt where rubbing against oil cooler duct. AD 93-02-05 Eff. 06/14/93 C/W per AD by inspection of fuel lines and hardware. AD's reviewed and complied with to this time, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Allen Logan

Allen Logan AP 2669982

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE INSTALLATIONS, INSPECTIONS,
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					



Date: 01/30/03 **N Number:** N445DS

Tach: 446.1

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Daniel M. Evans AP 2734390



Date: 03/21/03 **N Number:** N445DS

Tach: 495.1 **TT Engine:** 495.1 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 75/80, 2) 75/80, 3) 75/80 and 4) 75/80. Cleaned, gapped and tested all spark plugs. Tightened oil fill tube. Tightened all valve cover screws. AD 2002-26-01 Eff. 01/31/2003 C/W per AD by inspection of fuel injector lines, fittings and hardware.. AD's reviewed and C/W up to this date, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Jay C. Harper AP 607055663



Date: 05/05/03 **N Number:** N445DS

Tach: 549.4

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Jay C. Harper AP 607055663

CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER



Date: 06/12/03 **N Number:** N445DS

Tach: 595.9 **TT Engine:** 595.9 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 77/80, 2) 77/80, 3) 77/80 and 4) 76/80. Cleaned, gapped and tested all spark plugs. AD 2002-26-01 Eff. 01/31/2003 C/W by inspection of Fuel injector lines and hardware. AD's reviewed and C/W up to this date, see aircraft log for date and time of compliance. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Daniel M. Evans AP 2734390



Date: 07/28/03 **N Number:** N445DS

Tach: 647.9

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

Allen Logan A&P 2669982



Date: 8/15/03 **N Number:** N445DS

Tach: 681.1

Description of Work Performed:

Removed LH Mag, disassembled and inspected in accordance with Slick master service manual. Found breaker cam to be excsesely worn. Installed new primary and secondary breaker assemblies. Reinsalled onto engine .Ran engine to check for leaks and performance, opps check good. No leaks detected Return engine to service.

Simon J Rubino A&P 2670700



Date: 08/29/03 N Number: N445DS

Tach: 693.1 TT Engine: 693.1 TSMOH: N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 72/80, 2) 76/80, 3) 76/80 and 4) 76/80. Cleaned, gapped and tested all spark plugs. Cyl 1, 2, 3, 4 - Installed all new valve cover gaskets. Cyl 1 & 2 Installed new exhaust gaskets. Tightened all oil return hose clamps. All AD's reviewed and complied with up to this date, refer to the maintenance logs for compliance dates. Washed and ran engine to check for leaks and performance, found normal and returned to service.
I Certify that this engine has been inspected in accordance with an Annual inspection and it has been determined to be in airworthy condition.

Christopher Gregg
Christopher Gregg AP2732946

Gilbert C. Schoales Jr.
Gilbert C. Schoales Jr. AP 19548741 IA



Date: 10/07/03 N Number: N44DS

Tach: 728.2

Description of Work Performed:

Installed overhauled Governer P/N C2107776 S/N12367154 on engine. Ran engine to check for leaks and performance, no leaks detected, opps check good, Return engine to service.

Simon J. Rubino
Simon J. Rubino AP 2670700

1. Approving National Aviation Authority / Country FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. System Tracking Ref. No. 26112	
4. Organization Name and Address Rocky Mountain Propellers, Inc., 2865 Airport Drive, Erie, CO 80516 USA FAA FR6R545N - JAA 4827						5. Work Order, Contract, or Invoice Number: 26112	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Qty:	11. Serial / Batch Number:	12. Status / Work:	
1	Woodward Governor	C210776	Various	1	12376715 A	Overhauled	
13. Remarks: Overhauled governor in accordance with Woodward Service Manual #33194. Complied with Service Bulletins thru 33585. No AD'S currently apply. TBO is 6 years or engine TBO if unit is operated 120 hours per year continuously. Full details of work carried out held on work order #26112.							
*Certifies that the work specified in block 12 / 13 was carried out in accordance with FAR 145 and JAR 145 and in respect to that work the aircraft component is considered ready for release to service under FAA FR6R545N and JAA Acceptance Certificate Number: JAA 4827							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. Non-approved design data specified in Block 13.				15. 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approved / Authorization No.		20. Authorized Signature: <i>Dave Hampel</i>		21. Approval / Certificate No.: FR6R545N	
17. Name (Typed or Printed):		18. Date (month):		22. Name (Typed or Printed): Dave Hampel		23. Date (month): 10/03/2003	
User / Installer Responsibilities							
It is important to understand that the issuance of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user / installer performs work in accordance with the national regulations of an Airworthiness Authority different than the airworthiness authority of the country specified in block 1, it is essential that the user / installer ensures that his / her airworthiness authority accepts parts / components / assemblies from the airworthiness authority of the country specified in block 1. Statements in block 14 and 15 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown. Installer must cross check eligibility with applicable technical data.							

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<p>11/17/03 T.T. 751 changed oil & filter using 8 quarts 15W50. Ran engine, checked both leads, ops check good.</p> <p style="text-align: right;">JAY CATHARER <i>[Signature]</i> 607057663 A&P</p>		



Date: 12/09/03 **N Number:** N445DS

Tach: 773.0

Description of Work Performed:

Surfaced both exhaust riser flanges on #2 and #4 cylinders. Installed new gaskets and lock washers.

[Signature]
Allen Logan AP 2669982



Date: 12/30/03 **N Number:** N445DS

Tach: 792.9 **TT Engine:** 792.9 **TSMOH:** N/A

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 79/80, 2) 78/80, 3) 79/80 and 4) 79/80. Cleaned, gapped and tested all spark plugs. Replaced four spark plugs. Torqued rocker box cover screws. Tightened hose clamps on oil return lines. AD 2002-26-01 Eff. 1/31/03 CW per AD by inspection of injector lines, fittings and hardware. All AD's reviewed and CW to this time see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

[Signature]
Allen Logan AP2669982



Date: 02/17/04 **N Number:** N445DS

Tach: 844.8

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

[Signature]
Simon J. Rubino AP2670700

ENGINE SERVICE AND

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Date: 03/31/04 **N Number:** N445DS
Tach: 892.9 **TT Engine:** 892.9 **TSMOH:** N/A

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Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using 8 quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 77/80, 2) 74/80, 3) 76/80 and 4) 77/80. Cleaned, gapped and tested all spark plugs. Resurfaced #4 exhaust riser flange, installed new gaskets on #2 and #4. Replaced gasket on oil filler tube. Replaced two spark plugs. Replaced #3 induction tube o-ring and gasket. AD 2002-26-01 Eff. 01/31/03 C/W per AD by inspection of injector lines, fittings and hardware. All AD's reviewed and C/W to this time in service, see aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.
 I Certify that this engine has been inspected in accordance with a 100 hour inspection and it has been determined to be in airworthy condition.

Allen Logan
 Allen Logan AP2669982

DATE: 5/18/2004 **N NUMBER:** 445DS **TT ENGINE:** 944.00
TACH: 944.00 **HOBBS:** **SOMH:** n/a

Changed oil and filter. Cut filter open. Checked ok. Serviced with 8 qts. Aeroshell 15w50. Washed engine and run-up. No leaks noted.

Steve E. Piety
 Steve E Piety AP 524748243 IA

DATE: 6/18/2004 **N NUMBER:** 445DS **S/N:** 40045
TACH: 991.5 **HOBBS:** **T T:** 991.5

Completed 100 hr/Annual insp. this date. All cylinders 78/80. Changed oil and filter. Serviced with 8 qt. Aeroshell 15w50. Cut filter open. Checked ok. Cleaned inspected gapped rotated all spark plugs. Cleaned induction air filter. C/w AD 2002-26-01 insp. of fuel nozzle lines and clamps. Check ok. Complied with all other 100 hr services as per Diamond checklist and FAR 43 app. D. Engine run-up ok. No leaks noted. I certify this engine has been inspected in accordance with a 100 hr/Annual insp. and determined to be in airworthy condition at this time.

Steve E. Piety
 Steve E Piety AP 524748243IA

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. SIGNATURE LICENCE NUMBER

7/23/04 Tach + Total time 1039.1
 Changed oil + filter. Cut filter open.
 Checked OK. Serviced with 8 qts. A/S 15W50.
 Run-up. OK. Inspected exhaust for
 cracks + leaks. Check OK.
 Steve E. Piety A&P 524748243IA

DATE: 8/26/2004 N NUMBER: 445DS TT ENGINE: 1090.00
 TACH: 1090.00 HOBBS: SMOH: N/A

Completed 100 hr inspection this date. Checked for new AD's thru 2004-17. Complied with AD 2002-26-01 para. C, inspection of fuel nozzle lines and clamps as per Lyc. MSB # 342D. Changed oil and filter. Cut filter open. Checked ok. Serviced with 8 qt's Aeroshell 15w50. Compression check as follows: #1 78/80, #2 78/80, #3 76/80, #4 77/80. Cleaned, sparkplugs. Replaced lower plugs. Cleaned induction air filter. Inspected exhaust system for cracks as per DAI SI 40-006. Check ok. No cracks noted. Complied with all other 100 hr services at this time as per FAR 43 appendix D. Cleaned engine and run-up. No leaks noted.
 Op's check ok. I certify this engine has been inspected in accordance with a 100 hr inspection and determined to be in airworthy condition at this time.

Steve E. Piety
 Steve E Piety A&P 524748243 IA

9/21/04 Tach + Total 1140.8 Changed oil
 + filter. Cut filter open. Checked OK.
 Serviced with 8 qts A/S 15W50. Engine
 run-up. OK. NO leaks. Steve E. Piety A&P 524748243IA

9/28/04 Tach + Total 1145.7 Removed + replaced
 Lt. Magneto S/N off 01032176, S/N on 04030669
 mfg. date 3/08/04. M/N 4379. Timed to engine
 + run-up OK. Steve E. Piety A&P 524748243IA

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					

DATE: 11/2/04 **N NUMBER:** 445DS **TT ENGINE:** 1189.7

TACH TIME: 1189.7 **HOBBS TIME:** 1525.4

Completed 100 hr insp. this date. Checked AD's thru 04-21. Complied with AD 2002-26-01 par. C as per Lyc. MSB #342D. Changed oil and filter. Cut filter open. Checked OK. Serviced with A/S 15w50. All cylinders 78/80. Replaced induction air filter. Replaced #2 exhaust stack. Inspected entire exhaust system for cracks. Checked ok. Engine run-up ok. No leaks noted. Complied with all other 100 hr. services at this time as per checklist and FAR 43 App. D. I certify this engine has been inspected in accordance with a 100 hr inspection and determined to be in airworthy condition at this time.

Steve E. Piety
 Steve E Piety AP5247482431A

2/24/04		1239 40	Changed oil & filter. Serviced with Aeroshell 15w50 & gts. Cut filter open. Checked ok. engine run up ok. <i>Steve E. Piety AP 5247482431A</i>

DATE: 2/24/2005 **N NUMBER:** 445DS **TT ENGINE:** 1289.1

TACH: 1289.1 **HOBBS:** 1655.3 **SMOH:** N/A

Completed 100 hr insp. this date. Checked AD's thru 05-4. C/W AD 2002-26-01 par. C. fuel line insp. Checked ok. Changed oil and filter. Cut filter open, checked ok. Serviced with Aeroshell 15w50. All cyls. 78/80. Replaced lower sparkplugs. Complied with all other 100 hr services at this time as per maint. manual and FAR 43 app. D. Engine run up ok. No leaks noted. I certify this engine has been inspected IAWa 100 hr insp. and determined to be in airworthy cond. at this time.

Steve E. Piety
 Steve E Piety AP 28403311A

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

MAINTENANCE

REPAIRS, ADJUSTMENTS, MODIFICATIONS
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SIGNATURE

LICENCE NUMBER

TACH + TOTAL 1341.4

5/16/05 Changed oil + filter serviced with 8 qts Aeroshell 15w50 Filter checked OK. Engine run-up OK. No leaks.

Steve E. Piety A+P 524748J43IA

5/25/05 TACH + TOTAL 1354.8 Removed + replaced starter motor. S/N OFF F4L-120116, S/N ON F4L-130509. ops check OK.

Steve E. Piety A+P 2840331 IA

DATE: 6/29/2005

N NUMBER: 445DS

TT ENGINE: 1380.3

TACH: 1380.3

HOBBS: 1773.0

SMOH: N/A

Removed, cleaned, gaped, re-installed all sparkplugs. Removed Lt. mag., disassembled, cleaned, reassembled and re-installed on engine and timed to engine. Ops check ok.

Steve E. Piety
 Steve E Piety AP 2840331 IA

DATE: 7/13/2005

N NUMBER: 445DS

TT ENGINE: 1396.1

TACH: 1396.1

HOBBS: 1791.0

SMOH: N/A

Completed 100 hr/ANNUAL insp. this date. Compression check as follows: #1 77/80, #2 75/80, #3 75/80, #4 75/80. Changed oil and filter. Cut filter open. Checked ok. Serviced with Aeroshell 15w50. Cleaned, gaped, inspected, rotated all sparkplugs and reinstalled with new gaskets. Checked for new AD's thru 05-14. Complied with AD 2002-26-01 para. C, fuel line inspection. All checked ok. Complied with all other 100 hr services at this time as per FAR 43 app. D. and DA1 checklist. I certify this engine has been inspected in accordance with a 100 hr/ANNUAL insp. and determined to be in airworthy condition at this time.

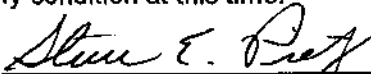
Steve E. Piety
 Steve E Piety AP 2840331 IA

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
9/2/05	TACH + TOTAL		144	7.9	Changed oil + Filter, cut filter open, checked OK. Serviced with 8 QT Aeroshell 15w50. Engine run-up, OK. No leaks. Steve E. Piety AP 2840331 IA
	HOBBS		185	7.5	

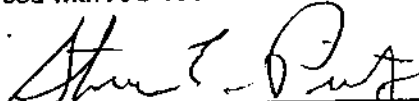
DATE: 11/16/2005 **N NUMBER:** 445DS **TT ENGINE:** 1493.3
TACH: 1493.3 **HOBBS:** 1914.2 **SMOH:** N/A

Completed 100 hr/Annual insp. this date. Checked for new AD's thru 05-22. Complied with AD 2002-26-01 par. C fuel line insp. checked ok. AD 2005-19-11 crankshaft replacement N/A by engine M/N. All cylinders 78/80. Changed oil and filter. Cut filter open and checked ok. Replaced lower sparkplugs. Cleaned and gapped upper plugs. Serviced with Aeroshell 15w50 engine oil. Complied with all other 100 hr inspection items as per FAR 43 app. D. Engine run-up ok. I certify this engine has been inspected in accordance with a 100 hr/Annual inspection and determined to be in airworthy condition at this time.


 Steve E Piety AP 2840331 IA

DATE: 2/15/2006 **N NUMBER:** N445DA **TT ENGINE:** 1543.3
TACH: 1543.3 **HOBBS:** 1978.7 **SMOH:** N/A

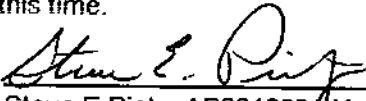
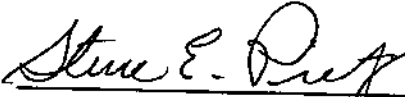
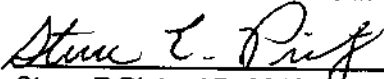
Changed oil and filter. Serviced with A/S 15W50. Filter checked ok. Engine run-up ok. No leaks noted.


 Steve E Piety AP 2840331 IA

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
<p>DATE: 5/23/2006 N NUMBER: 445DS TT ENGINE: 1592.3</p> <p>TACH: 1592.3 HOBBS: 2040.5 SMOH: N/A</p> <p>Completed 100 hr/Annual insp. this date. All cyl's. 78/80. Changed oil and filter. Serviced with 8 qt. A/S 15w50. Checked induction air filter, ok. Cleaned and gapped and rotated all sparkplugs. Checked for new AD's thru 2006-10. Complied with AD 2002-26-01 par. C fuel line insp. check ok. No leaks noted after run-up. C/W all other 100 hr services at this time as per FAR 43 app. D. I certify this engine and propeller have been inspected IAW a 100 hr/ Annual insp and determined to be in airworthy condition at this time.</p> <p style="text-align: center;"> Steve E Piety AP2840331 IA</p>		
<p>DATE: 8/15/2006 N NUMBER: 445DS TT ENGINE: 1641.8</p> <p>TACH: 1641.8 HOBBS: 2103.6 SMOH: N/A</p> <p>Changed oil and filter. Serviced with A/S 15W50. Engine run up. Checked ok.</p> <p style="text-align: center;"> Steve E Piety AP 2840331 IA</p>		
<p>DATE: 11/24/2006 N NUMBER: 445DS TT ENGINE: 1691.3</p> <p>TACH: 1691.3 HOBBS: 2166.8 SMOH: N/A</p> <p>100 hr/Annual insp. completed this date. Checked for new AD's thru 2006-23. AD 06-06-16 crankshaft replacement N/A by M/N. AD 06-12-07 ECi cylinders N/A not installed. Complied with AD 2002-26-01 par. C fuel line inspection check ok. All cyl. 78/80. Changed oil and filter. Cut filter open. Checked ok. Serviced with 8 qt. Aeroshell 15w50. Cleaned and gapped all sparkplugs. Repaired broken ground wire on alternator. Replaced battery and alternator cooling scat hose's. Complied with all other 100 hr services as per checklist and FAR 43 app. D. Engine run-up ok. No leaks noted. I certify this engine has been inspected in accordance with a 100 hr/ANNUAL inspection and determined to be in airworthy condition at this time.</p> <p style="text-align: center;"> Steve E Piety AP 2840331 IA</p>		

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

DATE: 4/18/2007 **N NUMBER:** 445DS **TT ENGINE:** 1750.6
TACH: 1750.6 **HOBBS:** 2240.3 **T.S.M.O:** N/A

Changed oil and filter. Serviced with 8 qt. Aeroshell 15w50. Cut filter open.
 Checked ok. Engine run-up ok, no leaks noted.

Steve E Piety AP 2840331 IA

DATE: 7/1/2007 **N NUMBER:** 445DS **TT ENGINE:** 1790.8
TACH: 1790.8 **HOBBS:** 2292.4 **T.S.O.H:** N/A

100 hr / Annual insp. completed this date. Checked for new AD's thru 2007-12. C/W AD 02-26-01 fuel line insp. per par c. Checked ok. AD 06-20-09 N/A by M/N. AD 07-04-19 N/A Superior cylinders not installed. All cylinders 78/80. Changed oil and filter. Filter checked ok. Serviced with A/S 15w50 8 qt's. Cleaned and gapped all sparkplugs. Washed engine. Run-up ok. No leaks noted. C/W all 100 hr services at this time as per FAR 43 app. D. I certify this engine has been inspected in accordance with a 100 hr/Annual insp. and determined to be in airworthy condition at this time.

Steve E Piety AP 2840331 IA

DATE: 8/15/2007 **N NUMBER:** 445DS **TT ENGINE:** 1842.6
TACH: 1842.6 **HOBBS:** 2358.1 **T.S.O.H:** N/A

Changed oil and filter. Serviced with A/S 15w50 8 qt. Cut filter open. Checked ok. Engine run-up ok. No leaks noted at this time.

Steve E. Piety AP 2840331 IA

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					



Date: 11/19/08 **N Number:** N445DS

Tach: 2036.2

Description of Work Performed:

Changed oil and Filter using 8 quarts of Aeroshell 15 W 50 oil. Washed and ran engine to check for leaks and performance. Found normal and returned to service.

David Mannarino
David Mannarino AP3183009

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 3/26/2009; Aircraft: N445DS; Type: DA-40; S/N: 40045; Tach: 2082.1; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: , SMOH:
Shop Order #: 01070, Closed: 3/26/2009
Installed muffler brace kit per Diamond MSB-40-044/1 with parts called out in the service bulletin. Removed #2 exhaust riser for repair. Inspected other 3 for damage. Reinstalled overhauled riser on cylinder #2 (see 8130 tag) and re-installed exhaust system with new gaskets. Ran engine to check for leaks.

Allen Logan Allen Logan AP2669982

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 5/04/2009; Aircraft: N445DS; Type: DA-40; S/N: 40045; Hobbs: 2669.0; Tach: 0.0; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: 2086.5, SMOH: 2086.5
Performed annual inspection of engine in accordance with FAR Part 43, appendix D. Performed compression, results as follows 1) 76/80, 2) 75/80, 3) 75/80 and 4) 77/80. Drained oil and removed filter. Cut filter for inspection and installed new filter, P/N AA48110 and safetied. Serviced engine with 8 qts of Aeroshell 15W50 oil. Cleaned, gapped, and tested spark plugs. Installed 3 new REM38E spark plugs with new gaskets on rest. Cleaned fuel servo inlet screen. Completed 500 hour inspection on both magnetos in accordance with Slick overhaul manual. On left magneto, installed new; oil seal, main and retard point kits, rotor gear, and carbon brush. Set point gaps and timed internally. On right magneto, installed new point kit and new carbon brush. Set point gap and internally timed magneto. Bench tested both magnetos. Installed both on engine and timed to engine. Installed new breather hose with new clamps. Tightened all the clamps on the oil drain back hoses. Installed 4 new rockerbox gaskets P/N 75906. Scat hose next to Cyl #1 exhaust replaced. All AD's reviewed and complied with at this time, see recurring AD compliance records for compliance times. Checked and lubed engine controls. Inspected and dressed propeller as required. Washed and ran engine to check for leaks and performance.
I certify this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Allen Logan Allen Logan AP26699821A

CARRIED FORWARD

TOTAL THIS PAGE			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			

MAINTENANCE RECORD

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 9/09/2009; Aircraft: N445DS; Type: DA-40; S/N: 40045; Hobbs: 2734.8; Tach: 49.8; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: 2136.3, SMOH: 2136.3
Shop Order #: 01378

Drained oil and removed filter. Cut filter for inspection and installed new filter, P/N AA48110 and safetied. Serviced engine with 8 qts of 15 W 50 Aeroshell oil. Performed leak check on ground run.

Allen Logan Allen Logan AP2669982

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 5/20/2010; Aircraft: N445DS; Type: DA-40; S/N: 40045; Hobbs: 2800.3; Tach: 100.2; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: 2186.7, SMOH: 2186.7

Performed Annual Inspection of engine in accordance with FAR Part 43, appendix D. Performed compression, results as follows 1) 77/80, 2) 77/80, 3) 76/80 and 4) 77/80. Drained oil and removed filter. Cut filter for inspection and installed new filter, P/N AA48110-2 and safetied. Serviced engine with 8 qts of 15 W 50 Aeroshell oil. Cleaned, gapped, and tested spark plugs. Installed four new spark plugs P/N REM38E, reinstalled rest with new gaskets. Cleaned fuel servo inlet screen. Check mag external timing and inspected points. Cleaned injector nozzles. Installed servicable baffle screws with new lock washers as needed. Removed exhaust and expansion joint clamps, cleaned and installed ten new joint clamps P/N 1555014-1 with new hardware and new exhaust gaskets P/N 77611 and lock washers and torqued. Tightened all expansion joint clamps and installed muffler brace. Installed new rocker box gaskets P/N 75906 and torqued screws to 50 in/lbs. Removed all intake tubes and reinstalled with new o-rings P/N 77569, gaskets P/N 71973 and torqued bolts. Removed #2, 3, 4 oil return lines and cleaned. Installed new hoses P/N STD1821. Removed filler tube and installed new gasket P/N 72059. Tightened and safetied. Secured fire sleeve around wires under #2 cylinder. All ADs have been reviewed and complied with at this time, see recurring AD compliance records for compliance times.

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

Allen Logan Allen Logan AP2669982IA

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 8/05/2010; Aircraft: N445DS; Type: DA-40; S/N: 40045; Hobbs: 2867.5; Tach: 151.0; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: 2237.5, SMOH: 2237.5

Drained oil and removed filter. Cut filter for inspection and installed new filter, P/N AA48110 and safetied. Serviced engine with 8 qts of 15 W 50 Aeroshell. Performed leak check on ground run.

Allen Logan Allen Logan AP2669982

Precision Aircraft and Engine Services Inc.

13252 E Control Tower Rd, Englewood, CO 80112
ENGINE 1

Date: 10/29/2010; Aircraft: N445DS; Type: DA-40; S/N: 40045; Hobbs: 2922.6; Tach: 195.8; Engine - Type: IO-360-M1A, S/N: L-29856-51A, Time: 2282.3, SMOH: 2282.3

Drained oil and removed filter. Cut filter for inspection and installed new filter, P/N AA49110-2 and safetied. Serviced engine with 8 qts of 15 W 50 Aeroshell. Performed leak check on ground run.

Allen Logan Allen Logan AP2669982

LICENCE
NUMBER

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

ENGINE & PROPELLER

Date 02-10-2012 N445DS Tach time 196.2 TSMO 2283.4

Complied with a 100 hr inspection iaw far 43 appendix D and a check list complied with routine serving iaw diamond service guide removed engine cowlings removed all plugs cleaned gapped and tested replaced one plug no other defects noted drained oil removed filter cut open no abnormal particles found at this time compression test readings 72-72-70-74 over 80 psi replaced valve cover gaskets cleaned induction filter replaced gasket on oil fill tube replaced missing screws on baffling complied with ad 02-26-01 checked all controls for full travel no defects noted visually inspected propeller for defects none noted no sign of fluid leaks noted see airframe logs this time and date for more details on inspection I certify that this engine has been inspected iaw a 100 hr inspection and has been determined to be in airworthy condition at this time Steven T Bush A&P34036411A

Steven T Bush

ETE

	Total Time Hobbs	TSMO	Tach	N445DS
5 / 8 / 12	2992.9	2336.4	18.2	Tach time 18.2 + (231 carried over after tach vee?) = 319.2 Hobbs 2992.9

Attn:
The Tach Rest itself at 231 to 0
So the 100 hr is due at 65.6 and the 50 Hr is due at 15.6

Drained oil and removed filter. Cut and inspected filter no metal noted. Serviced engine w/ Aeroshell W100. 8 qts. Operational and bark check good.
A&P 2517060 Joshua J. Nantemposi

Tara

REPAIR STATION #: OMKR399L
E.A.S.A. 145.5994
13251 E. CONTROL TOWER RD., BOX K-12
ENGLEWOOD, CO 80112
(303) 799-8906

.OG ENTRY

20 July 2012 **SMOH: 2383.3** **Tach: 65.1**
(N445DS) - Straight Flight, Inc. has performed a 100 Hour Inspection on the Engine by using Diamond DA40 Series MM Chapter 05-28-50 checklist as a guide. The following has been accomplished: 1) Performed engine compression test: 1) 78/80 2) 76/80 3) 78/80 4) 76/80. 2) Drained oil and changed oil filter. Serviced with 8 quarts 15W50 Aeroshell and (1) CH48110 filter. Ground run satisfactory. 3) Installed (2) new screws P/N: STD-1425 on LH & RH Engine baffling using standard practices from Lycoming O/H Manual. All A.D.'s complied with through this date.
Release Statement:
Straight Flight, Inc. hereby certifies that all the above maintenance and inspections have been accomplished in accordance with Straight Flight Inspection Procedure Manual, FAR's governing the operation of this equipment, referencing the standard practices in AC43.13 1B (current revision), and using Diamond DA 40 series maintenance manuals. I certify that this engine has been inspected IAW a 100 HR Inspection and has been determined to be in an airworthy condition. Information on these repairs is on file at Straight Flight facility under project #6475.

John L. Saar
John L. Saar, Inspector, Straight Flight, Inc., FAA CRS #OMKR399L

				CARRIED FORWARD
TOTAL THIS PAGE				
TOTAL FROM PREVIOUS SUMMARY				
TOTAL SINCE MFG.				

13000 E. Control Tower Rd. Box K-16 Englewood, CO 80112

DRAW A DIA

09/06/12
N445DS

Textron Lycoming IO-360-M1A
Tach: 0.1 Hobbs: 3120.2

SN: L-29856-51A
~~TTSN: 3338.3 JV~~

Drained engine oil sump and inspected oil filter. No metal noted. Serviced engine with 8 qts of Aeroshell 15W50 and installed new oil filter CH48110-1. Operational and leak checks good. Tach was reset at 114.4 due to battery replacement in the DPU by Duncan Aviation. Aircraft ok for service.

Josh Vanterpool AP2817060

TURE

LICENCE NUMBER

Aspen Flying Club

13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
12/11/12

Textron Lycoming IO-360-M1A
Tach: 49.8

SN: L-29856-51A
Hobbs: 3183.8

100 Hour Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 78/80, 2) 77/80, 3) 75/80, 4) 76/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Aeroshell 15W50. Replaced oil filter with new CH48110-1. Cleaned induction air filter. Completed a 500 Hour inspection on the left and right magneto IAW Slick overhaul manual. Replaced primary contact in right magneto with new p/n M3081. Replaced primary and retard contacts p/n 3637 (2 ea.) in the left magneto. Internally timed magnetos and timed magnetos to engine. Replaced oil and fuel hoses IAW DA40 MM Replacement Requirements. Ref. attached TSO cert. in airframe log for fuel and oil hoses replaced. **C.W. AD 2011-26-04 Fuel Injector Lines**, by inspecting fuel injector lines. No defects noted. AD's check through bi-weekly 2012-22. Operational and leak checks good. **I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition.**

Jonathan Coupal A&P3427289

Aspen Flying Club

13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
03/01/13

Textron Lycoming IO-360-M1A
Tach: 104.1 TTSN:2535.7

SN: L-29856-51A
Hobbs: 3231.9

Annual Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 77/80, 2) 79/80, 3) 77/80, 4) 77/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Aeroshell 15W50. Replaced oil filter with new CH48110-1. Cleaned and serviced induction air filter. Installed SAF-AIR oil quick drain p/n P500. **C.W. AD 2011-26-04 Fuel Injector Lines**, by inspecting fuel injector lines. No defects noted next due tach: 204.1. AD's check through bi-weekly 2013-04. Operational and leak checks good. **I certify that this engine has been inspected IAW an Annual inspection and was determined to be in airworthy condition.**

Joshua Vanterpool A&P2817060IA

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					Aspen Flying Club 13000 E. Control Tower Rd. Englewood, CO 80112 N445DS Textron Lycoming IO-360-M1A SN: L-29856-51A 06/06/12 Tach: 203.8 Hobbs: 3355.4 100 Hour Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 78/80, 2) 77/80, 3) 75/80, 4) 76/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Phillips X/C 20W50. Replaced oil filter with new AA48110-2. Cleaned induction air filter. Replaced #2 cyl. bottom lead with new p/n M7502-72. Replaced #3 cyl. bottom lead with new p/n M7502-72. C.W. AD 2011-26-04 Fuel Injector Lines , by inspecting fuel injector lines. No defects noted. Next due tach: 303.8 AD's check through bi-weekly 2013-10. Operational and leak checks good. I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition. Jonathan Coupal A&P3427289

Aspen Flying Club 13000 E. Control Tower Rd. Englewood, CO 80112 N445DS Textron Lycoming IO-360-M1A SN: L-29856-51A 07/26/13 Tach: 248.1 Hobbs: 3409.4 Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Phillips XC 25W50. Replaced oil filter with new AA40110-2. Operational and leak checks good. Aircraft ok for service. Jon Coupal A&P3427289

Aspen Flying Club 13000 E. Control Tower Rd. Englewood, CO 80112 N445DS Textron Lycoming IO-360-M1A SN: L-29856-51A 09/12/12 Tach: 296.0 Hobbs: 3466.3 100 Hour Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 78/80, 2) 51/80, 3) 80/80, 4) 80/80. Drained engine oil removed and inspected oil filter. No metal noted. Installed #2 cylinder after repair by ACE, Inc. Buss Ave. Greeley, CO 80631. Normal compression found after installation of repaired cylinder. Serviced engine with 8 qts. of Phillips Type M 20W50. Replaced oil filter with new AA48110-2. C.W. AD 2011-26-04 Fuel Injector Lines , by inspecting fuel injector lines. No defects noted. Next due tach: 396.0 AD's check through bi-weekly 2013-18. Operational and leak checks good. I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in condition.

Item CYLINDER
 Make and Model Lycoming IO-360-M1A
 Customer Aspen Flying Club
 Part No. LW12427 Ser. No. 4575
 The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.
 Date 9-20-13 Signed

SERVICEABLE



FORWARD

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

	Aspen Flying Club 13000 E. Control Tower Rd. Englewood, CO 80112	
	N445DS 02/19/14	Lycoming IO-360-M1A Tach: 394.6
100 Hour Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 80/80, 2) 72/80, 3) 76/80, 4) 72/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 7 qts. of Phillips X/C 20W50. Replaced oil filter with new CH48110-1. Cleaned induction air filter. Fuel Injector Lines, by inspecting fuel injector lines. Found no.2 upper cylinder fuel nozzle loose and leaking, removed cleaned as required re-installed and performed leak check with, no defects noted at this time. AD's check through bi-weekly 2014-02. Operational and leak checks good. I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition, and returned to service for the work performed above.		
Ben Swink A&P 3636462 		



LOG ENTRY

REPAIR STATION #: OMKR399L
E.A.S.A. 145.5994
13251 E. CONTROL TOWER RD., BOX K-12
ENGLEWOOD, CO 80112
(303) 799-8906

9 April 2014

TTAC: 2845.5

Tach: 413.9

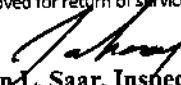
TTSN: 2845.5


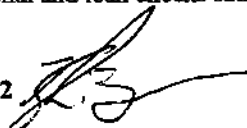
(N445DS)- Engine- Straight Flight, Inc. has performed the following: 1) Performed 100hr inspection by following FAR part 43 Appendix D as a guide.

2) Performed engine compression test: 1) 78/80 2) 77/80 3) 77/80 4) 78/80. 3) Changed engine oil and replaced oil filter P/N CH48110-1. Serviced with Phillips XC 20W50 9 quarts oil. Ground leak check found satisfactory.

Release Statement:

Straight Flight, Inc. hereby certifies that all the above maintenance and/or inspections has been accomplished in accordance with Straight Flight Inspection Procedure Manual, FAR's governing the operation of this equipment, referencing the standard practices in AC43.13 1B (current revision), and Diamond Aircraft DA 40 Maintenance Manuals. I certify this engine has been inspected IAW a 100hr inspection and determined to be in airworthy condition and has been approved for return of service. Information on this repair is on file at Straight Flight facility under project #7347.


John L. Saar, Inspector, Straight Flight, Inc., FAA CRS #OMKR399L

	Aspen Flying Club 13000 E. Control Tower Rd. Englewood, CO 80112	
	N445DS 06/25/14	Lycoming IO-360-M1A Tach: 454.2
Drained engine oil. Removed and inspected oil filter. No metal noted. Serviced engine with 7 qts. of Phillips X/C 20W50. Installed new oil filter (P/N: CH48110-1). Operational and leak checks satisfactory.		
Kyle Barnes A&P 3632102 		

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

AND



Aspen Flying Club

13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
7-17-15

Lycoming IO-360-M1A
Tach: 3746.7

SN:L-29856-51A
Hobbs: 3520.9

DATE

IS,
HIRED FOR COMPLETE

BROUGHT
FORWARD

1. C/w this inspection per FAR 43 apdx d and found good for return to service.
 2. Compression 1)70. 2)79.3)77. 4)78
 3. AD 11-26-04 fuel injection lines found good at this time.
 4. Replaced sparkplugs with new plugs.
 5. Changed oil and filter and service with Phillips 20W50.
 6. Checked mag to engine timing and found good.
 7. Ground run a leak checked and no problems noted.
- I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.

Ronald Dobbie
Ronald Dobbie A&P 3506064



Aspen Flying Club

13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
10-17-16

Lycoming IO-360-M1A
Tach: 532.4

SN:L-29856-51A
Hobbs: 3760.8

100 Hour Inspection completed on this date using the DA40 MM 100 Hour Inspection Check List. Cylinder compression test: 1) 79/80, 2) 78/80, 3) 79/80, 4) 78/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Phillips X/C 20W50. Replaced oil filter with new CH48110-1. Cleaned induction air filter, spark plugs and fuel nozzles. Complied with AD11-26-04 by inspecting fuel lines: no defectes noted. AD's check through bi-weekly 2016-20. Operational and leak checks good. I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition. and returned to service for the work performed above.

Alberto Pizzato A&P 2522916

Alberto Pizzato

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 5/11/2017
Acft Reg: N445DS
Flight Tach: 579.4
ENGINE

Drained oil and serviced sump with 8 Qts Aeroshell 15W50. Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempst oil filter P/N 48110. Ground run/ops/leak check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished work.—END—

Justin Parrow

Justin Parrow

A&P3083586

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

Date: 7-21-2017 Tach: 589.4 Hobbs: 3838.5 Reg. No.: N445DS
Eng. Model: IO-360-M1A Eng. S/N: L-29856-51A SMOH: 0.00
Engine Major Overhaul

LICENCE
NUMBER

Completed engine major overhaul this date in reference with Lycoming overhaul manual 60294-7 and parts manual PC-306-14. All internal steel parts magnetic particle inspected. Crankshaft, crankcase, and connecting rods overhauled/certified. Camshaft reground/certified; new lifters installed. Performed Centri-Lube Technologies (self-oiling camshaft) STC SE00590DE (FAA form 337 filed this date). Factory new Lycoming cylinder assemblies installed. Engine reassembled using new crankshaft main and connecting rod bearings, new connecting rod bolts and nuts, new vernatherm valve, all new stressed fasteners, and all new gaskets and seals. Engine accessories were overhauled/exchanged or new as follows: new Sky-Tec starter; new Champion/Slick magnetos, spark plugs, and ignition harness; alternator (and belt), fuel servo, flow divider, fuel pump, propeller governor, and oil cooler. Maintenance release tags and A.D. listing provided. Reference repair order #10498.

Donald D. Mumford
A&P 3203907

The New Firewall Forward
Loveland, CO 80538

Date: 7-21-2017 Tach: 589.4 Hobbs: 3838.5 Reg. No.: N445DS
Eng. Model: IO-360-M1A Eng. S/N: L-29856-51A SMOH: 0.00
Engine Major Overhaul Accessory Listing

MFG. NAME	COMPONENT	P/N	SERIAL
Champion/Slick	Magneto	4347	14110462
Champion/Slick	Magneto	4370	17040787
Champion/Slick	Ignition Harness	M4004	N/A
Sky-Tec	Starter	149-24LS	F4L-511601
Hartzell Engine Tech	Alternator	ALU-8521R	C050005
Precision Airmotive	Fuel Servo	2576568-1	72H31202
Precision Airmotive	Flow Divider	2524232-2	0137824
Lycoming	Fuel Pump	LW15473	0COI20
Woodward	Propeller Governor	C210776	12376715A
Stewart Warner	Oil Cooler	10578T	257

The New Firewall Forward
Loveland, CO 80538

Date: 7-21-2017 Tach: 589.4 Hobbs: 3838.5 Reg. No.: N445DS
Eng. Model: IO-360-M1A Eng. S/N: L-29856-51A SMOH: 0.00
Engine Major Overhaul

ATT 3012.0

Completed engine installation this date after engine major overhaul. Engine serviced to 8qts with Aeroshell 100ND oil; new filter installed. #3 exhaust riser repaired/certified. Baffles reinforced/repared as required. New starter ring-gear installed. New rod ends installed on both throttle and mixture cables. New Teflon (integral firesleeve "lifetime") fuel and oil hoses installed. Functional and leak tests satisfactory. This aircraft is approved for return to service. Reference RO# 10498. End

James E. Crisman
A&P3220001

The New Firewall Forward
Loveland, CO 80538

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

R M A S

ROCKY MOUNTAIN AIRCRAFT SERVICES LLC

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 07-26-2017
Acft Reg: N445DS
Flight Tach: 3843.4
ENGINE

CTIONS,
I REQUIRED FOR COMPLETE

Drained oil and serviced sump with 8 qts aeroshell 100 oil. Removed old oil filter and cut for inspection, no defects found. Installed torqued and safetied new AA48110-2 oil filter. Removed and replaced cylinder #1, #2, #3 and #4 valve cover gaskets with new gaskets P/N RG-75906. Ground run and operational check is satisfactory at this time. This aircraft is approved for the return to service for the above accomplished work.

Daniel R Ruley

A&P 3918566

R M A S

ROCKY MOUNTAIN AIRCRAFT SERVICES LLC

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 8/30/2017
Acft Reg: N445DS
Flight Tach: 632.5
SMOH: 43.1
ENGINE

Performed a 100HR/Annual inspection in accordance with FAR 43 App (D) and Diamond DA40 checklist. Drained oil and serviced sump with 8 Qts Aeroshell 15W50. Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Removed all spark plugs, cleaned, gapped and tested. Reinstalled plugs using (8) new Gaskets P/N M674 and torqued to 30 FT pounds. Compressions as follows #1 74 #2 80 #3 79 #4 78 all over 80 PSI. Inspected fuel and oil screens as required. Inspected exhaust and intake system for leaks or other defects. C/W AD 15-79 Fuel injection line inspection. Inspected routing and security, no defects found. Next due at Tach: 732.5. C/W MSB 40-033 Exhaust riser inspection per instructions. No defects found. Next due at Tach: 732.5. Ground Run/Ops/Leak check all satisfactory at this time. I certify that this Engine has been inspected in IAW a 100HR/Annual inspection and has been found to be in airworthy condition and is approved for return to service at this time. —END—

Justin C Parrow

A&P30835861A

R M A S

ROCKY MOUNTAIN AIRCRAFT SERVICES LLC

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 10/19/2017
Acft Reg: N445DS
Flight Tach: ~~651~~ 690.1
Engine

Drained oil and serviced sump with 8Qts Aeroshell 15W-50. Removed oil filter and cut for inspection. No contaminants noted at this time. Installed torqued and safetied new oil filter P/N 48110.

Daniel Ruley

A&P3918566

CARRIED FORWARD

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

RAS
ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 12/21/2017
Acft Reg: N445DS
Flight Tach: 730.5
Engine

NATURE	LICENCE NUMBER

Performed a 100HR inspection in accordance with FAR 43 App(D) and Diamond checklist. Drained oil and serviced sump with 8qts Aeroshell 15W-50 oil. Removed oil filter and cut for inspection. No defects noted at this time. Installed torqued and safetied new P/N 48110 oil filter. Compressions as follows: 1-66 2-76 3-75 4-76 all over 80psi. Inspected fuel/oil screens as required. Checked magneto to engine timing and adjusted to 25deg BTDC. Removed cleaned gapped and tested sparkplugs. Reinstalled sparkplugs with new P/N M674 gaskets and torqued. Inspected induction and exhaust for leaks or defects. C/W AD 15-19-07 Fuel injection line inspection. Inspected routing and security, no defects found. **Next Due Tach 830.5 C/W MSB 40-033 Exhaust riser inspection per instructions, no defects noted. Next Due Tach 830.5** Ground run/ops/leak check satisfactory at this time. I certify that this Engine has been inspected in accordance with a 100HR inspection and is approved for return to service at this time.

-End-
Clinton Cook *Clinton Cook* A&P 3574567

RAS
ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 01/04/2018
Acft Reg: N445DS
Flight Tach: 730.6
Engine

Removed fuel servo and flow divider and sent to Precision Airmotive for overhaul. Reinstalled fuel servo and flow divider with new gaskets as required. See attached form 8130 for info. Replaced #2 induction tube O-ring P/N 77569 and gasket P/N 71973 with new. Run up/ops/leak check is satisfactory at this time.

Clinton Cook *Clinton Cook* A&P 3574567

RAS
ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 3/6/2018
Acft Reg: N445DS
Flight Tach: 770.4
ENGINE

Drained oil and serviced sump with 8 Qts Aeroshell 15W50. Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Ground run/ops/leak check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished work.—END—

Justin Parrow *Justin Parrow* A&P3083586

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 4/20/2018
Acraft Reg: N445DS
Flight Tach: 222.3
Engine

VICE AND

INSPECTIONS,
LINES AS REQUIRED FOR COMPLETE

Removed and replaced # 4 and # 1 intake pipe gasket with new gasket P/N 77569.
Removed and replaced #4 and #1 intake flange gasket P/N 71973. Removed and replaced
#4 exhaust gasket with new gasket P/N RA77611. Removed fuel servo, all cylinder fuel
injectors and flow divider. Sent to Mike's Aircraft Fuel Metering Service for testing. See
Form 8130-3 for more information. Reinstalled Fuel servo with new gaskets. Installed fuel
divider and fuel injectors. Ops/leak/ground run is satisfactory at this time.

Daniel Ruley *[Signature]* A&P 3918566

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 5/8/2018
Acraft Reg: N445DS
Flight Tach: 828.1
ETT: 238.7
ENGINE

Performed a 100HR/Annual inspection in accordance with FAR 43 App (D) and Diamond DA40 checklist. Drained
oil and serviced sump with 8 Qts Aeroshell 15W50. Removed old oil filter and cut for inspection, no contaminants
found. Installed torqued and safetied new tempest oil filter P/N 48110. Removed all spark plugs, cleaned, gapped
and tested. Reinstalled plugs using (8) new Gaskets P/N M674 and torqued to 32 FT pounds. Compressions as
follows #1 79 #2 76 #3 77 #4 79 all over 80 PSI. Torqued valve covers hardware. Replaced dip stick gasket P/N
74068 with new. Inspected exhaust and intake system for leaks or other defects. C/W AD 15-19-07 Fuel injection
line inspection. Inspected routing and security, no defects found. Next due at Tach: 928.1. C/W MSB 40-033
Exhaust riser inspection per instructions. No defects found. Next due at Tach: 928.1. Inspected spinner and spinner
bulkhead for cracks or other defects, none found. Ground Run/Ops/Leak check all satisfactory at this time. I certify
that this ENGINE has been inspected in IAW a 100HR/Annual inspection and has been found to be in airworthy
condition and is approved for return to service at this time.-----END-----

Justin C Parrow *[Signature]* A&P3083586IA

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 6/1/2018
Acraft Reg: N445DS
Flight Tach: 878.5
ENGINE

Drained oil and serviced sump with 8 Qts Phillip's XC20W50. Removed old oil filter and cut for inspection,
no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Ground run/ops/leak
check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished
work.-----END-----

Justin Parrow *[Signature]* A&P3083586

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 6/22/2018
Acft Reg: N445DS
Flight Tach: 927.5
ETT: 338.1
ENGINE

LICENCE
NUMBER

Performed a 100HR inspection in accordance with FAR 43 App (D) and Diamond DA40 checklist. Drained oil and serviced sump with 8 Qts Phillips XC20W50. Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Removed all spark plugs, cleaned, gapped and tested. Reinstalled plugs using (8) new Gaskets P/N M674 and torqued to 32 FT pounds. Compressions as follows #1 79 #2 79 #3 78 #4 79 all over 80 PSI. Torqued valve covers hardware. Inspected exhaust and intake system for leaks or other defects. C/W AD 15-19-07 Fuel injection line inspection. Inspected routing and security, no defects found. **Next due at Tach: 1027.5.** C/W MSB 40-033 Exhaust riser inspection per instructions. No defects found. **Next due at Tach: 1027.5.** Ground Run/Ops/Leak check all satisfactory at this time. I certify that this **ENGINE** has been inspected in IAW a 100HR inspection and has been found to be in airworthy condition and is approved for return to service at this time.-----END-----

Justin C Parrow

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 7/24/2018
Acft Reg: N445DS
Flight Tach: 976.7
ENGINE

Drained oil and serviced sump with 8 Qts phillips XC 20W50 Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Ground run/ops/lea check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished work.-----END-----

Justin Parrow

A&P3083586

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES

11750 Airport Way Hanger B-12A
Broomfeild CO, 80021

Date: 08/08/2018
Acft Reg: N445DS
Flight Tach: 1026.8
Engine

Performed a 100HR inspection in accordance with FAR 43 App(D) and Diamond checklist. Drained oil and serviced sump with 8qts Phillips X/C 20W-50 oil. Removed oil filter and cut for inspection. No defects noted at this time. Installed torqued and safetied new P/N 48110 oil filter. Compressions as follows: 1-76 2-74 3-74 4-72 all over 80psi. Removed spark plugs and installed (8) new spark plugs P/N UREM38E. Inspected induction and exhaust for leaks or defects. C/W AD 15-19-07 Fuel injection line inspection. Inspected routing and security, no defects found. **Next Due Tach 1126.8** C/W MSB 40-033 Exhaust riser inspection per instructions, no defects noted. **Next Due Tach 1126.8** Ground run/ops/leak check satisfactory at this time. I certify that this **Engine** has been inspected in accordance with a 100HR inspection and is approved for return to service at this time.
--End-

Clinton Cook

A&P 3574567

RAS

ROCKY MOUNTAIN
AIRCRAFT SERVICES

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 8/21/2018
Acft Reg: N445DS
Flight Tach: 1079.6
ENGINE

Drained oil and serviced sump with 8 Qts phillips XC 20W50. Removed old oil filter and cut for inspection, no contaminants found. Installed torqued and safetied new tempest oil filter P/N 48110. Ground run/ops/leak check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished work.-----END-----


Justin Parrow

A&P3083586

ENGINE SERVICE AND

TIME RUN		TIME SINCE OVERHAUL	
HRS.	MIN.	HRS.	MIN.

INSTALLATIONS, INSPECTIONS,
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE



ASPEN
FLYING CLUB

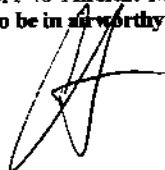
Aspen Flying Club
13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
08-29-2018


DA-40
Tach: 1080.6

SN: 40045
Hobbs: 556.4

Adjusted mixture cable. Performed engine ground runs and operational check as required, with no defects noted at this time. Refer to DA 40 Aircraft Maintenance Manual for work performed. I certify that this aircraft is determined to be in an worthy condition, and is returned to service for the work performed above.



Cody Adams A&P 4059376



ASPEN
FLYING CLUB

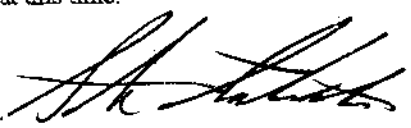
Aspen Flying Club
13000 E. Control Tower Rd. Englewood, CO 80112

N445DS
09-07-18

Lycoming IO-360-M1A
Tach: 1081.9

SN: L-29856-51A
Hobbs: 559.3

Removed fuel boost pump, S/N: 4136. Installed new fuel boost pump, S/N: 1808192, P/N: 5100-00-9 with two new o-rings, P/N: MS29512-06. Operational and leak check satisfactory at this time.



Steve Sibiski A&P 4118686

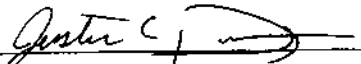


**ROCKY MOUNTAIN
AIRCRAFT SERVICES**
11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 1/4/2019
Acft Reg: N445DS
Flight Tach: 1080.6
ENGINE

TOTAL TIME
TOTAL HOURS
PREVIOUS SERVICE
TOTAL SINCE

Replaced aircraft battery with new RG24-11M battery. Ground run/ops/leak check is satisfactory at this time. This aircraft is approved for return to service for the above accomplished work.---END---

Justin Parrow 

A&P3083586

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
 NUMBER

Date: 12/12/2018 Tach: 1086.9 Hobbs: 569.8 Reg. No.: N445DS
 Eng. Model: IO-360-M1A Eng. S/N: L-29856-51A SMOH: 497.5

Exhaust valves; valve/guide clearance checked (OK). Reassembled with new exhaust
 installed overhauled fuel pump P/N:LW15473, S/N:02YO18. Installed overhauled flow
 manifold) P/N:2576564-1, S/N:0137824. Overhauled L/magneto P/N:4347,
 installed. 500-hour inspection completed on R/magneto P/N: 4370, S/N: 17040787.
 Replaced with serviceable P/N:149-24LS, S/N:F4L-690404. Maintenance release tags
 functional and leak tests satisfactory. Aircraft test flown. This engine is approved for
 service. Reference W.O.10862. End

AS
 36072

[Signature]

The New Firewall Forward
 Loveland, CO 80538

AS
FLY MOUNTAIN
AIRCRAFT SERVICES LLC
 11750 Airport Way Hanger B-12A
 Broomfield CO, 80021

Date: 01/24/2019
 AcftReg: N445DS
 Flight Tach: 1091.0
 Engine

Removed right magneto and installed new overhauled magneto P/N 4370 S/N G-12621, see
 attached form 8130 for info. Timed right magneto to engine. Removed right magneto harness
 and sent for repair, reinstalled harness. Ground run/ops/leak check is satisfactory at this time.

Clinton Cook

[Signature]

A&P 3574567

ASPEN
 FLYING CLUB

Aspen Flying Club
 13000 E. Control Tower Rd. Englewood, CO 80112

N445DS	Lycoming IO-360-M1A	SN:L-29856-51A
05-17-2019	Tach:1127.1	Eng.TT:3561.4
Hobbs: 624.6		TSMO:537.7

Completed Annual inspection by following FAR 43 Appendix D and CAM Check List. Cylinder compression test: 1) 78/80, 2) 78/80, 3) 78/80 4) 78/80. Drained engine oil removed and inspected oil filter. No metal noted. Serviced engine with 8 qts. of Phillips X/C 20W50. Replaced oil filter with new CH48110-1. Cleaned induction air filter, spark plugs and fuel nozzles. C/W AD 2015-19-07 eff. Nov 3, 2015 by inspection of external fuel lines in accordance with para. (e) and Lycoming MSB 342G. Next due Tach:2227.1 AD's check through bi-weekly 2019-10. Operational and leak checks good. I certify that this engine has been inspected by an FAA Annual inspection and was determined to be in airworthy condition.

[Signature]
 John Saar 3685567A

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

Michiana Aircraft Service, Inc

Engine Log Entry

4323 West Progress Drive South Bend, IN 46628 Phone 574-287-4687 Fax 574-287-7753

Diamond DA40

N445DS

Hobbs: 673.8

SMOH: 586.9

TET: 3610.6

Maintenance:

- Complied with oil change. Serviced with 8 quarts of 20W50 and a new CH48110-1 filter.
- Cleaned, gapped, and tested spark plugs.
- Removed engine and engine mount. Welded cracks in engine mount per instructions from manufacturer. Re-installed engine mount and engine.
- Tightened loose hose clamps on cylinder oil return hoses.

This aircraft was repaired in accordance with the manufactures maintenance manual. All systems interrupted have been tested and/ or leak checked as necessary. This aircraft is airworthy and is approved for return to service with respect to the work performed.

Signature: 

Steve Purvis C.R.S. Q6MR956Y

Date: 9-19-19

WO#14205

REG. NO.	N445DS
MAKE	DIAMOND
MODEL	DA40-180
S/N	40.045

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	11/02/19
TACH	608.8
TT	
SMOH	

REPLACED FORWARD R/H BAFFLE ASSY (P/N D41-7166-11-00_2)

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs -
ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CHARLES M. STUDER 

A&P 337545845 IA

2823 East Empire Street
Bloomington, Illinois 61704
United States
Telephone: (309)828-4448
Fax: (309)828-4458
info@synergyfbo.com

SYNERGY FLIGHT CENTER

Airframe Log Entry

Log Book Entry

March 30, 2020
FAACRS 8SGR199C
www.synergyfbo.com

Manufacturer: Lycoming Div Avco Corp Textron
Part/Model number: IO-360-M1A
Work Order No: R784

TSN/TSO: 3,669.80 / 646.10
Serial Number: L-29856-51A
Date: 03/30/2020

CSN/CSO: N/A / N/A

Squawk
2.1

INSPECTED AND SERVICED THIS ENGINE IAW THE DIAMOND DA 40 MAINTENANCE MANUAL. COMPRESSION #1 75/80, #2 75/80, #3 75/80, #4 75/80. CHANGED OIL AND FILTER. INSPECTED FILTER. CLEANED SCREEN. INSTALLED A CH48110 FILTER. ADDED PHILLIPS XC 20W50 OIL. INSTALLED A NEW GASKET, P/N 71973 AND O-RING, P/N 77569 ON #3 INTAKE PIPE. C/W A.D. 2015-19-07, 11/03/15, BY INSPECTING THE FUEL INJECTION LINES IAW LYCOMING S.B. MSB 342G. NEXT DUE AT ATT 3780.1. GND RAN. OPS AND LEAK CHECK GOOD. A.D.'S CHECKED THRU 2020-06. I CERTIFY THAT THIS WORK DESCRIBED ABOVE HAS BEEN INSPECTED AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number R784.

Signature: 

Date: 3/30/2020

TOTAL
SINCE MFG.

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

REG. NO.	N445DS
MAKE	LYCOMING
MODEL	IO-360-M1A
S/N	

MIDWEST AVTECH INC.
 I.V. REGIONAL AIRPORT
 4241 ED URBAN DR.
 PERU, IL 61354

DATE	12/18/19
TACH	628.7
TT	
SMOH	

DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH PHILLIPS 20W50 - GROUND RUN AND LEAK CHECK GOOD

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CODY WILLIAMS

Cody Williams

A&P 4078259

ENGINE MODEL: IO-360-M1A
 ENGINE S/N: L-29856-51A
 REG. NO: N65LY
 WORK ORDER: 8852-06-2020



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

DATE: 02 June, 2020
 A/C TSN: 3720.1
 ENG TT: 3720.1
 TSMOH: 708.1
 TACH: 3720.1

Engine Entries

- 1 Changed the oil and filter. Opened and inspected the filter for contaminants. Serviced the engine with 8 Qts. of Phillips 20W50 X/C and a new AA48110-2 filter. Ground ran and leak checked.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.5424 under Work Order No. 8852-06-2020, Dated 02 June, 2020.

DATE: 02 June, 2020

SIGNED:

Don Morgan

Don Morgan
 Certified Repair Station No. NF2R029L

Burlington Air Center

703 Airport Rd. Burlington, WI, 53105
 (262) 763-9500 Fax (262) 763-2910

8/5/2020 Hobbs: 893.4 N65LY Tach: 3793.4

Reviewed Logbooks: found in-continuity in record keeping of Aircraft Total Time vs Tach time and Hobbs.

Findings as follows:

- June 2001 Aircraft New, 0.0 Tach = 0.0 TTAF
- 5/4/09 Tach reset to 0.0 @ 2086.5 TTAF, documented in log entry that date.
- 10/29/10 Tach = 195.8, TTAF = 2282.3, Hobbs = 2922.6 per log entry that date.
- Multiple Tach resets and documentation errors and discrepancies between 10/29/10 and 9/6/12.
- 9/6/12 Tach = 0.1 @ 3120.2 Hobbs = 2479.9 TTAF
- 5/17/19 Tach = 1127.1, ACTUAL TTAF = 3606.9 (TTAF incorrectly recorded as 3561.4), Hobbs = 624.6
- No continuity of times between 5/17/19 and 9/19/19 except Hobbs.
- 9/19/19 JPI Installed @ 673.8 Hobbs = 3656.1 TTAF, Tach set to 3610.6
- 8/5/20 Tach = 3793.4, Hobbs = 893.4, ACTUAL TTAF = 3838.9

I certify that the work described above has been accomplished and inspected in accordance with current regulations to service.

Colin Koebel

Lycoming IO360

TT: 3819.1
 TSMOH 807.1

DATE 08/18/20

Complied with AD # 15-19-07 Inspected fuel injector lines, clamps, and nozzles

Colin Koebel IA# 2694095

Colin Koebel

Owner: Dominic Zastarski Certificate Number: 3131412 <div style="font-family: cursive; font-size: 2em; margin-top: 20px;"><i>Dominic Zastarski</i></div>	Model: DAA0 S/N: 40045 Reg: N65LY A/C TSN: 3772.2 TACH: 760.2 SMOH: 760.2 Description of work: Completed Oil change. Serviced with 7 quarts of Phillips 20W50 and Camguard. Inspected and replaced oil filter Temtest AA48110-2. Oil sample sent to Blackstone. Report date 07/23/2020. Results are nominal, no issues.
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ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Burlington Air Center

703 Airport Rd. Burlington, WI, 53105
(262) 763-9500 Fax (262) 763-2910

8/19/2020 Hobbs: 926.4 N65LY Tach: 3819.8 TTAF: 3865.3

Oil changed this date: cut open oil filter and inspected for FOD, none found at this time. Took SOAP sample and provided to owner for analysis, see report for details. Installed new **AA48110-2** filter and filled engine with qts of Phillips **20W50XC** oil. Washed down engine, ran up and checked for leaks, none noted at this time.

I certify that the work described above has been accomplished and inspected in accordance with current regulations and is approved for return to service.

8/27/2020 3846 *Clean Plus Replace #4 Intake Gasket* *JA3428812*

Make: Diamond	Date: 8/30/2020
Model: DA40	A/C TSN:
S/N: 40045	TACH: 3848.8
Reg: N65LY	SMOH: 836.8
Description of work: Replaced all spark plugs to Tempest Fine Wire P/N UREM38S XL. Applied spark plug thread lubricant ATS2612 and torqued to 35 ft/lb. Work authorized by 14 CFR Part 43.	
Owner: Dominic Zastarskis	
Certificate Number: 3131412 <i>DZastarskis</i>	

Make: Diamond	Date: 9/3/2020
Model: DA40	A/C TSN:
S/N: 40045	TACH: 3862
Reg: N65LY	SMOH: 850
Description of work: Completed Oil change. Serviced with 7 quarts of Phillips 20W50 and Camguar. Inspected and replaced oil filter Temtest AA48110-2. Oil sample sent to Blackstone.	
Owner: Dominic Zastarskis	
Certificate Number: 3131412	

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
10/30/2020	3913.6. Change oil & filter 796 15W50 CWAD 11/26/04 Injector Lines OK	<i>[Signature]</i>	#A3428812 J.P. Aviation Inc
<p style="text-align: center;">Burlington Air Center 703 Airport Rd. Burlington, WI, 53105 (262) 763-9500 Fax (262) 763-2910</p>			
1/15/21	N65LY Tach: 3917.4 Hobbs: 1044.4		
<p>Removed: Lycoming IO-360-M1A Engine SN) L-29856-51A for shipping.</p> <p style="text-align: center;"><i>[Signature]</i> #A346836</p>			



AMO 161-93

Aircraft Reg: N65LY
Work Order: SO072908

Date: July 5, 2021

	Manufacturer	Model	SN	
Airframe	Diamond	DA40	40.045	TTAF: 3962.9 Hrs.
Engine	Lycoming	IO-360-M1A	L-29856-51A	TSOH: 905.4 Hrs.
Prop	MT	MTV-12-B	01016	TSOH: 893.7 Hrs.

Details of work performed:

- 100 hr engine inspection completed I.A.W. Lycoming MM
- Powerflow exhaust inspection carried out IAW PFS-15250-00 Rev. E. Found serviceable.
- Engine oil change completed, 8L Aeroshell 15W50 oil installed with new filter PN: CH48110-1.
- Induction air filter PN: FR-08504 replaced.
- Differential compression check carried out. #1 78/80, #2 78/80, #3 77/80, #4 76/80.
- Replaced center firewall engine mount insert PN: DA4-5312-21-01. Stainless steel firewall and heat blanket removed and replaced with new to facilitate replacement of insert. Replacement carried out IAW DA 40 AMM Ch. 51 and Diamond approved DWG # D41-5312-21-00_02 Rev. B.
- New engine mount PN: D41-7126-10-00 installed.
- Engine isolation mounts and hardware replaced with new at this time.
- All engine SCAT and CAT hoses replaced at this time.
- Engine relay box start circuit diode PN: 1N4007 and 3 amp fuse replaced.
- Composite engine baffle repaired as required IAW DA 40 AMM Ch. 51.
- Throttle cable PN: A-1550-0440 replaced with new.
- Air inlet assembly PN: D41-2146-10-00 replaced.
- Oil pressure hose PN: D41-7906-10-00 replaced with new.
- AWD 2015-19-07 - Visual inspection of fuel injector lines carried out. Found serviceable.
- Bi Weekly AWD Checked through 2021-13

I have carried out an independent inspection of the Flight controls/power plant controls affected by the work accomplished.

Signature: *[Signature]*

ACA:



The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

Signature: *[Signature]*

ACA:



