

# AIRCRAFT TECHNICAL LOGS

## Section 3. ENGINE

ENGINE LOG

1. Make LYCOMING
2. Model IO-360-M1A
3. Specification TE10
4. Manufacturer's Serial Number L-32254-S1A
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 →			0	0	<p><i>ENGINE INSTALLED NEW ON DA 40 9N</i></p> <p>Engine installation inspected I.A.W. Diamond Aircraft Industries Inc. <b>DA 40 W.I.S. Rev: G Form ME-01-A</b></p> <p>Engine service with 8 qts. Of Phillips 20W50 Type "M" engine oil.</p> <p>Engine break-in I.A.W. Lycoming Service Instruction 1427B, <b>FLIGHT TEST COMPLETED</b></p>
<i>FEB 23 2006</i>			<i>4.1</i>	<i>0</i>	<p style="text-align: center;"><i>HOURS BROUGHT FORWARD</i></p>

Engine Model: Lyc. IO-360-M1A	Engine S/N: L-32254-51A	N513DS S/N: 40.623
Engine Total Time: 25.6	Hobbs Time: 34.3	Date: 8/21/2006

Changed oil and filter. Serviced 8 quarts Phillips 20W/50 XC and installed new filter P/N: CH48110-1. Checked old filter for metal contamination – none detected. Washed engine. Engine leak and operational check normal.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1168

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.

S.O. #. LS06-1168

ACFT. TOTAL TIME: 25.6 Hrs.

AUTHORIZED SIGNATURE: Michael S. Herbert AP315356 *Michael S. Herbert*  
WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806



**ENGINE ENTRY**  
**N513DS S/N: DA40.623**  
**Oil Change 11 September 2006**  
**Diamond DA40**  
**CURRENT TACH: 0042.7 TOTAL TIME: 0042.7**

Removed and replaced oil filter CH48110-1 cut and inspected oil filter-OK... drained oil from sump and oil cooler... filled engine with 8qts. Aeroshell 15W-50 oil... cleaned gapped and rotated spark plugs 8ea REM38E and replaced gaskets... set idle and mixture per SIL RS-67... operational and post maintenance leak check normal... aircraft is approved for return to service... -----END-----

By: Lenny J. Guerin Signed: *Lenny J. Guerin* Cert #: 021483690  
A&P, IA

TOTAL			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			



**ENGINE ENTRY**  
**N513DS S/N: 40.623**  
**Repair 14 October 2006**  
**CURRENT TACH: 0052.2 TOTAL TIME: 0052.2**

R&R fuel servo and flow divider for c/w Diamond MSB 10-048/1... operational test-OK... aircraft is approved for return to service...

By: Philip F. Patroniti

Signed:

Cert #: 3177936A&P

# 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 →					

Engine Model: Lyc. IO-360-M1A	Engine S/N: L-32254-51A	N513DS S/N: 40.623
Engine Total Time: 82.3	Hobbs Time: 102.7	Date: 11/17/2006

Performed a 100 Hour/Annual Inspection in accordance with 14 CFR Part 43 appendix D and the Diamond DA 40 Series Aircraft Maintenance Manual, Rev. 4. Checked cylinder compressions: 1-74, 2-72, 3-72, 4-74/80 PSI. Cleaned, gapped, tested, and rotated spark plugs. Replaced 2 ea. Plugs with new P/N: REM38E. Tested ignition harness. Adjusted magneto timing. Changed oil and filter. Serviced 8 quarts Phillips 20W/50 XC and installed new filter P/N: CH48110-1. Checked old filter for metal contamination – none detected. Inspected and cleaned fuel strainer and injector screen. Replaced cracked muffler brace. Washed engine and lubricated engine controls. Engine leak and operational check normal. AD's checked through Tdata release # 2006-23.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1232.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE: Michael S. Herbert AP3153561L

**WEST COAST** Charters, Inc.

2881 E. Spring Street, Long Beach, CA 90806  
Office: 562-981-6064 Fax: 562-981-6071

**REDMOND AIR LLC** 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355   
CERTIFICATE Q9RR266Y

WORKORDER 2739 5-18-2007 HOBBS TIME 176.6  
DIAMOND DA40 N513DS S/N 40-623

REMOVED ENGINE AND PROP FOR FIREWALL REPLACEMENT. DIAMOND FACTORY REPRESENTATIVE REMOVED FIREWALL AND INSULATING BLANKET AND REPLACED WITH NEW LIKE ITEMS. REINSTALLED ENGINE PER DIAMOND DA40 SERVICE MANUAL. INSTALLED PROP PER DIAMOND DA40 SERVICE MANUAL. RAN, FUNCTIONAL CHECKED AND LEAK CHECKED ENGINE AND PROP. NO DEFECTS NOTED.

I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IAW AC 43.13 AND APPLICABLE DIAMOND MANUALS AND IS DETERMINED TO BE IN AIRWORTHY CONDITION.

BRUCE J. SNOOK

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

**REDMOND AIR LLC** 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355  
CERTIFICATE Q9RR266Y

*Redmond Air*

WORKORDER 2739 04-05-2007  
DIAMOND DA40 N513DS S/N 40-623 HOBBS TIME 156.6

INSTALLED NEW EGT SENSOR , PART NUMBER A002BG-WIP, IN #4 CYLINDER.  
BLED AND SERVICED RIGHT BRAKE.

I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IAW AC 43.13 AND APPLICABLE MANUALS  
AND IS DETERMINED TO BE IN AIRWORTHY CONDITION.

BRUCE J. SNOOK

*Bruce J. Snook*

Make: Diamond  
Model: DA40  
S/N: 40.623  
Reg. Number: N513DS

Date: 07/17/2007  
Tach: 225.9  
Hobbs: 266.2

**JETSTREAM**  
AVIATION

3653 Rickenbacker Street, Suite 212  
Boise, ID 83705  
208-345-3730

Engine Logbook Entry

Performed a 50 hour inspection in accordance with Diamond DA40 Maintenance Manual.. Drained oil and replaced filter with Ch48110-1 Filter, opened and inspected oil filter -No Contaminates Noted. Added 8 quarts of Aero Shell W100. Ground run/ leak check satisfactory- 0 defects noted.

This aircraft and/or component(s) identified above was repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy with respect to the work performed, subsequently approved to return to service.

Craig W. Morfitt  
A&P 3240362

*Craig W Morfitt*

December 5, 2007  
Hobbs: Hrs 343.7

N513DS Aircraft Log

Changed oil and filter IAW Diamond aircraft DA40 Maintenance manual. Replaced filter CH-48110-1. Serviced engine with 8 qts. Aeroshell 15w-50 oil. Inspected oil filter no contamination found.

Derick Johns A&P 3228751

*Derick Johns*

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					

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N: L-32254-51A  
REG. NO. N513DS  
WORK ORDER:  
5558-12-2007

**Southwest Platinum Aviation**  
2810 Perimeter Road, Suite 102  
North Las Vegas, NV 89032  
Phone: 702-646-6191

DATE: 12/11/2007  
A/C TSN:  
ENG TT:  
TACH: 297.1

**Engine Entries**

(3) Compression checks 1.68 /80, 2.76 /80, 3.76 /80, 4.72 /80.... (11) Complied with AD 93-02-05 of the fuel injection lines .Visual inspection next due TACH 397.1... (14) This Aircraft has been inspected in accordance with an Annual / 100Hr Inspection and was found to be in airworthy condition.

This aircraft N513DS and/or it's component(s) was repaired or inspected in accordance with current Federal Aviation Regulations and was found Airworthy, and is approved for return to service. \*Pertinent details of the work performed are on file at this repair station under Work Order No. 5558-12-2007

DATE: 12/11/2007

SIGNED:   
Kyle Hunsaker, IA: 530294189

Work Order: 5558-12-2007  
Printed by EBis 3 (datcomedia.com)

2-7-08  
N513DS  
Hobbs:

Completed Precision Airmotive Mandatory service bulletin PRS-107 IAW service bulletin on N513DS No defects noted at this time.

Derick Johns A&P3228751

Signed:

**Engine logbook Entry  
N513DS**

Date: 7-21-08      Hobbs: 474.1      ETTIS: 474.1

Changed oil and filter serviced engine with 8 quarts Aero Shell 15W-50 oil. Cut filter open no metal noted. C/W AD 2008-08-14 AD is N/A due to the date of manufacture of this aircraft and engine.

Derick Johns A&P 3228751 A/P 3228751

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

**REDMOND AIR LLC** 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355 *Redmond Air*

WORKORDER 3198 1-22-2009  
 DIAMOND DA40 N513DS S/N 40-623 HOBBS TIME 544.5  
 LYCOMING IO-360-M1A S/N L-32254-51A  
 COMPLIED WITH A 100 HOUR/ANNUAL INSPECTION PER DIAMOND AIRCRAFT MAINTENANCE MANUAL  
 TIME LIMITS AND MAINTENANCE CHECKS 05-20-00.  
 REPLACED PROP SEAL PART # A1633-11.  
 COMPLIED WITH 500 HOUR MAG INSPECTION PER UNISOM L1037 4200/6200 MAGNETO MAINTENANCE  
 AND OVERHAUL MANUAL, TELEDYNE CONTINENTAL CRITICAL SERVICE BULLETIN CSB08-9, SLICK  
 SERVICE BULLETIN SB02-08 AND SLICK SERVICE BULLETIN SB3-08.  
 BLED BRAKES AT CUSTOMER REQUEST.  
 VERIFIED TORQUE OF ENGINE MOUNT PER DIAMOND MAINTENANCE MANUAL.  
 REPLACED CRANK MAIN SEAL.  
 COMPLIED WITH AD 2008-14-07 , FUEL INJECTION LINE CLAMPING. (SB 342E )  
 DRAINED OIL AND TOOK SOAP SAMPLE, REMOVED AND INSPECTED FILTER, INSTALLED NEW CH48110-1  
 FILTER AND SERVICED OIL WITH AEROSHELL 15-50.  
 REPLACED ALL SPARK PLUGS, PARTY # REM38E.  
 COMPLIED WITH COMPRESSION CHECK AS FOLLOWS: #1 - 71, #2 - 72, #3 - 72, #4 - 71.

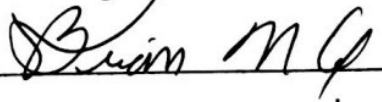
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AC 43.13 AND APPLICABLE DIAMOND MANUALS  
 FOR A 100 HOUR/ ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION.

BRUCE J. SNOOK Q9RR266Y  


*February 25, 2010 S/N40.623 Diamond Star DA40 N513DS TACH: 602.1 TTAF:602.1*  
*ETSN: 602.1 PTSN: 602.1*

*Performed Annual Inspection in accordance w/ DA40 Inspection Guide. Drained oil, obtained  
 sample and serviced engine w/ 8quarts 15W50 Aeroshell Oil, replaced Filter w/ P/N CH48110-1,  
 washed and ran engine, leak check good. Replaced 8 Spark Plug Gaskets w/ P/N M674. Re timed  
 both left and right magnetos. Performed compression test as follows: 1) 79/80 2) 79/80 3) 79/80 4)  
 77/80. I certify that this Engine has been inspected in accordance w/ an Annual Inspection and was  
 found airworthy.*

*AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744*

*A&P5186611321A Brain N Cox* 

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.





# MAINTENANCE RECORD


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

SIGNATURE

LICENCE  
NUMBER

July 13, 2013 S/N 40-623 Diamond Star DA40 N513DS Tach 784.5

Drained oil and removed oil filter. Installed a new oil filter p/n CH48110-1 and serviced the engine with 7 qts of Aeroshell 15W50 oil. Ran engine and inspected for oil leaks, no leaks found.

Pilot/Owner 3142765 Benjamin Tally Jones 

August 1, 2013 S/N40.623 Diamond Star DA40 N513DS TACH: 821.2 TTAF: 821.2  
ETSN: 821.2 PTSN: 821.2

Performed 100 hr Inspection in accordance with DA40 Inspection Guide Section 05-28-00. Drained oil, obtained sample, replaced oil filter with P/N CH48110-1 and serviced engine with 7 quarts of 15W50 Aeroshell Oil. Washed and ran engine, no leaks observed. Replaced 8 Spark Plug Gaskets with P/N M674. Performed compression test as follows: 1) 79/80 2) 79/80 3) 78/80 4) 78/80.

Complied with the following AD's:

12-03-06 AFS Fuel Servo: N/A by no AFS fuel servo parts installed

11-26-04 Fuel Injection Lines: C/W as per paragraph (i) and MSB 342 Diag. 1 Next due 776.4

I certify that this Engine has been inspected in accordance with 100 hour Inspection and was determined to be in airworthy condition this date.


AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P3486712IA

Brian N Cox 

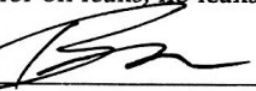
January 24, 2014 S/N 40-623 Diamond Star DA40 N513DS Tach 874.5

Drained oil and removed oil filter. Installed a new oil filter p/n CH48110-1 and serviced the engine with 7 qts of Aeroshell 15W50 oil. Ran engine and inspected for oil leaks, no leaks found.

Pilot/Owner 3142765 Benjamin Tally Jones 

July 9, 2014 S/N 40-623 Diamond Star DA40 N513DS Tach 925.8

Drained oil and removed oil filter. Installed a new oil filter p/n CH48110-1 and serviced the engine with 7 qts of Aeroshell 15W50 oil. Ran engine and inspected for oil leaks, no leaks found.

Pilot/Owner 3142765 Benjamin Tally Jones 

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



# MAINTENANCE RECORD

*Airframe  
Engine  
DOW  
Log*

ENTRIE:

## Job 7466

December 16, 2016 S/N40.623 Diamond Star DA40 N513DS TACH: 1072.9 TTAF: 1072.9  
ETSN: 1072.9 PTSN: 1072.9

Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance w/ FAR 91.207(d), replaced 8 Dcell batteries w/ new, batteries due 12-1-2017, New Battery Case p/n E-01-03 Installed. Remote due 9-1-2023. Serviced air induction filter by cleaning and oiling filter. Removed, cleaned, and reinstalled fuel strainer bowl with new O-ring P/N GAS 375. Installed New D41-2560-93-00 Emergency Battery Pack. Performed Motor Mount Bolt Inspection. Installed (2) New Bushings p/n BB4526DU-B Nose Pivot and New DIN985-M12-A2 Nut and friction set to 9.7 lbs. Installed Rudder cable Kit p/n CSKIT-07 non Stainless Cables due for replacement again 3,000. Hrs. Alternator Prestolite ALU8521LS s/n G051004 500 Hr Inspection Performed Installed new Bearings p/n X4130 & X4612 New Brushes p/n ALE1013AS. Reinstalled and Operational tested. Repaired wiring at the Aux Post on the back of alternator. Removed voltage regulator P/N VR 2000-28-1 s/n F101349 and Installed New P/N VR 2000-28-1 s/n 80N68610. Packed Wheel Bearings & Serviced Brakes.

The following special inspections were Performed IAW Service Manual

- Essential bus. due every 1000 hr,
- Bonding system and static discharging system, due every 1000 hr.,
- Emergency Battery (G1000 system), due 2 yrs. or date marked on package
- Fire extinguisher, every 10 years. Replaced With New.
- Rudder cables, due every 3000 hrs. Replaced
- Universal joints in fuel selector shaft, due every 1000 hrs.
- Front cockpit structure, due every 1000 hrs.
- Center fuselage structure due every 2000 hrs.
- Baggage compartment frame due every 1000 hrs.
- Inner skin of vertical stabilizer, due @ major structural inspection,
- Interior structure of vertical stabilizer, due @ major structural inspection.
- Main Landing Gear Alignment Camber / Toe In Inspection.
- Horizontal stabilizer interior due every 2000 hrs.
- Interior structure, horizontal stabilizer, due @ major structural inspection.
- Structure of Vertical stabilizer, due every 2000 hrs.
- G1000 low fuel switches due every 1000 hrs.
- Function test, aileron control system, due every 2000 hrs.
- Function test, rudder control system, due every 2000 hrs.
- Function test, elevator control system, due every 2000 hrs.
- Alternator Brushes & bearings, due ea. 500 hrs.
- Magnetos 500 hr. inspection, due ea. 500 hrs.

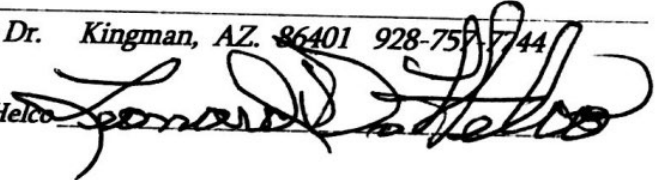
09-10-04 **Nose gear pivot cracks:** Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assy. and reassembled, set pivot pressure to 9.7 lbs as per Service Manual.

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

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7444

A&P529869163AI

Leonard D. Helco



# ENGINE SERVICE AND

**Job 7466**

*December 16, 2016 S/N40.623 Diamond Star DA40 N513DS TACH: 1072.9 TTAF: 1072.9*  
*ETSN: 1072.9 PTSN: 1072.9*

Performed 100 hr Inspection in accordance with DA40 Inspection Guide Section 05-28-00. Drained oil and removed oil filter. Installed a new oil filter P/N CH48110-1 and serviced the engine with 7 qts of Aeroshell 15W50 oil. Washed and ran engine, no leaks observed. Removed both magnetos, Right P/N 4347, serial numbers: 05042285 and Left P/N 4370 s/n 04112266, disassembled, cleaned, and inspected. Performed 500 hour inspection in accordance with Unison Manual.L-1363-B, section 3.3. Reassembled using the following new parts: 2 ea. 649954 Base gasket, M3062 Seal, 2 ea. M2556 Cotter Key, 2 ea. M3006 Bearing, 2 ea. M3611 Cam, 2 Each M3215 Brush, and Ran Each Magneto for 2 Hrs on test bench and reinstalled on engine. Replaced 8 Spark Plug with new REM 38E Plugs. Performed compression test as follows: 1) 78/80 2) 79/80 3) 79/80 4) 78/80.

Complied with the following AD's:

15-19-07 Fuel Injection Lines: C/W as per paragraph (e)(1)(ii) Next due 1182.9

15-02-07 Propeller Gov shaft set screw as per the service instructions 1343C only applies when screw is being installed. Due at Next screw removal or overhaul.

I certify that this Engine has been inspected in accordance with 100 hour Inspection and was determined to be in airworthy condition this date.

*AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744*

*A&P529869163AI*

*Leonard D. Helco*



**Job 7884**

*August 17, 2017 S/N40.623 Diamond Star DA40 N513DS TACH: 1132.5*

Drained the oil, took an oil sample, installed a new CH48110 oil filter, serviced the engine with 7 qt. of W15-W50 AeroShell oil, test ran and leak checked. Removed all spark plugs, cleaned, gapped, tested, rotated, and reinstalled. Removed the fuel injectors and inspected and flow tested. found the # 1 injector partially clogged. cleaned the injectors and re-flow tested, exchanged the #1 and #4 injector.

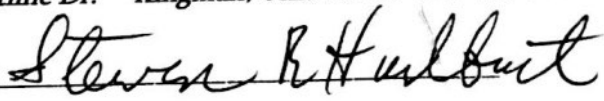
15-19-07 Fuel Injection Lines: C/W as per paragraph (e)(1)(ii) Next due 1242.5

Aircraft returned to service.

*AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744*

*A&P1856322*

*Steven Hurlburt*



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

# ENGINE SERVICE AND

Job 7466

December 16, 2016 S/N40.623 Diamond Star DA40 N513DS TACH: 1072.9 TTAF: 1072.9  
ETSN: 1072.9 PTSN: 1072.9

Performed 100 hr Inspection in accordance with DA40 Inspection Guide Section 05-28-00. Drained oil and removed oil filter. Installed a new oil filter P/N CH48110-1 and serviced the engine with 7 qts of Aeroshell 15W50 oil. Washed and ran engine, no leaks observed. Removed both magnetos, Right P/N 4347, serial numbers: 05042285 and Left P/N 4370 s/n 04112266, disassembled, cleaned, and inspected. Performed 500 hour inspection in accordance with Unison Manual.L-1363-B, section 3.3. Reassembled using the following new parts: 2 ea. 649954 Base gasket, M3062 Seal, 2 ea. M2556 Cotter Key, 2 ea. M3006 Bearing, 2 ea. M3611 Cam, 2 Each M3215 Brush, and Ran Each Magneto for 2 Hrs on test bench and reinstalled on engine. Replaced 8 Spark Plug with new REM 38E Plugs. Performed compression test as follows: 1) 78/80 2) 79/80 3) 79/80 4) 78/80.

Complied with the following AD's:

15-19-07 Fuel Injection Lines: C/W as per paragraph (e)(1)(ii) Next due 1182.9

15-02-07 Propeller Gov shaft set screw as per the service instructions 1343C only applies when screw is being installed. Due at Next screw removal or overhaul.

I certify that this Engine has been inspected in accordance with 100 hour Inspection and was determined to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P529869163AI

Leonard D. Helbo

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

# RECORD OF ENGINE MAINTENANCE (A/D), SERVICE BULLETINS (S/B),

DETAILS OF



Date: **23** February, 2006 S/N: 40.623 Reg: N513DS  
Engine S/N: L-32254-51A Eng TTSN: 4.1 HRS

*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

DAI SI 40-003 – Vision Microsystem VM1000. Capacitor check – N/A

DAI SI 40-005/Lycoming SB 342E/AWD 93-02-05 Fuel Line(stainless steel tube assy.) and support clamp Inspection and Installation New – Due every 100 hours.

DAI SI 40-006 – Exhaust System Inspection of Flanges New – Due every 50 hours – N/A if MSB 40-07 C/W.

SI 40-009(FAA AD 2002-26-01) – Externally mounted fuel injection lines – C/W

DAI SI 40-010- Repair of certain injection servos – N/A due to S/N of unit.

MSB 40-07 Exhaust Flange Connection Tube Riser Immediate if cracks detected, no later than DEC 31 2002 – C/W.

MSB 40-009 Improvement of ground-connection to Alternator – PCW During mfg.

MSB 40-012 Replacement of Mixture Control Cable N/A as already Incorp. During mfg.

RSB 40-011 Starter relay replaced with latest revision – C/W.

Precision Airmotive Fuel Servo SB PRS-105 – N/A due to S/N of unit.

Textron Lycoming MSB 565 – Replacement of Diaphragm-Type Fuel Pumps P/N LW-15473 with date code of 3201 – N/A as date code does not match installed on this A/C

Textron Lycoming MSB 548A/DAI SI 40-023 – Diaphragm-Type Fuel Pump – with a date code of 0700 through 0401- N/A as date code does not match installed on A/C

Textron Lycoming AD 2002-12-07-Prevent Complete loss of engine oil-N/A due to M/N  
**Bi-weekly AWD check carried out to current revision 2006-04-05**

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

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

Signature

Lic or Stamp

