emercal interest	OUGHT		TIME	SINCE	ENGINEERING RECORD
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMP
BROUGHT	-	-	3302	· 2.	
					- Wh Diamond
					Date: November 12, 2014
					RO-14-013 S/N:40.662 Reg: N658DS TACH: 3302.2 hrs.
					The Following work has been carried out:
	1		-		
					Autopilot System has been De activated and rendered in operative by disengaging the 5 amp Circuit Breaker and Tie wrapping the same to render
		1			the system power in operative. The instrument Panel has been Placarded "Autopilot Inoperative" I.A.W. FAR 91.213(d)
					The maintenance described above has been performed in accordance
					with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES AMO 161-93
				1	Bu Mush. (ROB)
		_	3302	.2	Signature:Lic or Stamp:
DEC 4 5 904/			3302	.2	Mul A
DEC 1 5 2014			3302	101722	Diamond
					Date: December 15, 2014 RO-14-013 S/N:40.662 Reg: N658DS TACH: 3302.2 hrs.
			Lamb		
					The Following work has been carried out:
- 1000	1	20,74			Garmin G1000 Database update carried out
	7.7307 2.77				Obstacle, Aviation, & Safe Taxi updated. Next updates due January 08, 2015
					The maintenance described above has been performed in accordance
	2.0			1967	with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES AMO 161-93 DA
	THE VAL			1	
	Table 1	10-1	3302	. 2.	Signature: Lic or Stamp:
			10504.1	~	
Viustang Av	ation	4316 Han	gar Drive	Lexing	ton, KY 40510 859-255-1902
			Airframe L		
Date: 10/13/2016			XII II AIIIC L	og Dook	Shop Order: M-16-6146
Reg No: N658DS	-		ircraft: DA-		Serial No. 40.662
Tach: 3340.8 Prop TSN: 3340.8	1		obbs: 4357. op TSOH: '		Eng TT: 1152.7
1.0p 102210.0					
	and the same of			-04.0 S/	N 00039, Performed ELT test IAW 14 CFR 91.207. Ops normal.
Next batt 2. Cleaned, i	nspected.	and re-pa	i. icked all wh	neel bear	ings. No discrepancies noted.
Drained, re	emoved, c	leaned ar	d inspected	d fuel filte	er bowl. No abnormal contamination found.
 Serviced a C/W MSB 	and top cha	arged ship	os battery,	IAW SB	instructions. No defects found. Next due at 3440.8 tach.
Replaced	cracked tra	ansponde	r antenna v	vith new I	P/N CI-105 S/N 77011. Performed transponder test. Ops normal.
Lubricated	airframe I	AW DA40	lubrication 2 detector.	chart.	
9. Provided u	pdated Al	complia	nce report.	Copy on	file.
10. I certify thi	s airframe	has been	inspected i	AW an a	nnual inspection per 14 CFR part 43 appendix D and found to be in
airworthy o	condition.	Diamond I	JA40 AMM	05-28-50	100hr interval checklist used as a guide.

INSF	ECTION, REPAIRS & REPLACEMENT LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE
	Reg No. N658DS Aircraft: Diamond Aircraft Serial No. 40.662		THOUGHT -
	Work Order: 11708 Shop Order: M-16-6146		
	I HEREBY CERTIFY THAT THE ALTIMETER, ENCODER.		
	AND STATIC SYSTEM TESTS REQUIRED BY FAR 91.411		
	HAVE BEEN PERFORMED AND MEET SPECIFICATIONS.		
	ALTIMETER #1 TESTED TO 20,000 FEET		
	ALTIMETER #2 TESTED TO 20,000 FEET		
	ENCODER #1 TESTED TO 20,000 FEET		
	SYSTEM TEST DATE: 12 October 2016		
	I HEREBY CERTIFY THAT THE ATC TRANSPONDER TEST -	THE RESERVE	LI LI LA
	REQUIRED BY FAR 91.413 WAS PERFORMED THIS DATE AND		
	FOUND TO COMPLY WITH FAR 43, APPENDIX F.		
	MAKE: Garmin MODEL: GTX-33 SERIAL NO.: 89102482		
	SYSTEM TEST DATE: 12 October 2016		
	TESTED BY Stelling # UTY RO 15 C		
	4		
	Mustang Aviation -		
و المراكب	4316 Hangar Dr		200
	Lexington, KY 40510		
English Telephone	859-255-1902		La Partie
	FAA CRS # UTYR015L		
	The Control of the Co	THE RESERVE	
gbook .	Paragon Aircraft Service, Inc.	Authorize	d
	19 Wright Way, Fairfield, NJ 07004	Diamond Co	

ALTIMETER SCALE CORRECTON CARD

REFERENCE ALTITUED IN FT.	ALTIMETER READS	REFERENCE ALTITUED IN FT.	ALTIMETER READS
1000	*1000	14000	13990
6	0	16000	15990
500	500	18000	17990
1000	1000	20000	19980
1500	1500	22000	•
2000	2000	25000	***
1000	3000	30000	***
. 4000	4000	35000	1
0000	6000	40000	
8000	8000	45000	
10000	10000	50000	
12000	2 Fly		
ested By Filly	2 Blows 1	N# N658DS Date	: 12 October 2016



17-16- 6146.

ALTIMETER SCALE CORRECTON CARD

REFERENCE ALTITUED IN FT.	ALTIMETER READS	REFERENCE ALTITUED IN FT.	ALTIMETER READS
-1000	-1000	14000	13990
, 0	0	16000	15990
500	500	18000	17990
1000	1000	20000	19980
1500	1500	22000	
2000	2000	25000	
3000	3000	30000	
. 4000	4000	35000	
6000	6000	40000	
8000	8000	45000	
10000	10000	50000	
12000	11990		an Destrict to the said



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TOTAL AIR DAILY TIME SINCE ENGINEERING RECORD DATE NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COM HRS. MIN. HRS. MIN. BROUGHT A/C: N658DS Date: 3/9/17 Hobbs: 4425.7 Tach: 3392.9 Pilot seat removed, pilot stick thru bolt tightened, and Aileron test for correct movement performed I/A/W Diamond DA40MM Section 27-10-00. Minor justments made to bring Ailerons into specifications outlined in section 06-00-00 Figure number 7 control surface adjustment reports. Left flap adjusted to pecifications outlined in Section 06-00-00 Fig. 7 and I/A/W Section 27-50-00. Rudder Cable tensions checked and found to be in spec. at 38lbs left and right. ose wheel fork assembly removed, bushings and shaft greased, and reinstalled assembly. Diamond DA40 1200kg weight increase kit installed I/A/W fanufacturer OSB 40-057/2.P/N ESB28mm Spacer installed. HID landing and axi lights installed I/A/W STC SA01782SE.Camlocks removed and replaced on oil dipstick door and EPU door on cowling. Jason A. Zwart AP3736574 Take flight Aviation Authorized Paragon Aircraft Service, Inc. Airframe Logbook Cirrus Service 19 Wright Way, Fairfield, NJ 07004 Entry Center Phone: (973)575-0364 Fax (973)244-1884 W. O. Tach Hobbs **Total Time** Serial# Make/Model Date N' Number 9201 4508.3 3457.5 40.662 N658DS Diamond DA40 8/1/2017 Adjusted aileron nuetral position and travels per manual. Replaced right aft nav light bulb. certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed Steven VanderValk A&P 2919106 Authorized Signature: Paragon Aircraft Service, Inc. Authorized rframe Logbook Cirrus Service 19 Wright Way, Fairfield, NJ 07004 Entry Phone: (973)575-0364 Fax (973)244-1884 Center Serial# N' Number Make/Model **Total Time** W. O. Tach Hobbs Date 9/12/2017 N658DS Diamond DA40 40.662 3477.5 4523.1 3477.5 9240 Repaired right canopy latch by rebonding barrel to pin using Loctite 638. certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed. Authorized Signature: Steven VanderValk A&P 2919106 Paragon Aircraft Service, Inc. Authorized Airframe Logbook Cirrus Service 19 Wright Way, Fairfield, NJ 07004 Entry Phone: (973)575-0364 Fax (973)244-1884 Center Date N' Number Make/Model Serial# Total Time Tach Hobbs W. O. Diamond DA-40 40.662 3499.3 4523.2 All systems checked for condition and proper operation. Wheel bearings cleaned and repacked. Removed all flaking cowling heat paint and repainted with customer supplied heat paint. Removed minor corrosion from top of left wing inboard trailing edge and repainted. Replaced wing root moulding, flap up indicator light bulb, both main tires, nose tire, right brake linings, hobbs oil pressure switch, brake hose retaining clips on gear legs and all scat tubing in engine compartment. Removed and reinstalled exhaust system after repair by Dawley, see maintenance releases tags in aircraft records. Installed new aircraft battery RG24-15M serial# 40895717. C/W 2 year G1000 fuse replacement. ELT checked I/A/W FAR 91.207(d). All AD's checked thru 17-24.

I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.

condition.

certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy

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		Re	g. #	#: N	165	8D	S			Se	r #:	40	.66	2					N	lan	uf:	Dia	amo	ond	1			1	Me	ode	i: D)A4(0				MEXI	
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es Inc.	ON CI R.XOS K	Altimeter Reads	Altimeter	- 990	10	510	1010	1510	2010	30/0	4010	0/09	8010	10010	19010	14010	16005	18005	30005					44	240	5464	No.71.747			08K	CZYA	is outlined			NED OLA	MF-014		
C&W Aero services Inc	Farfield, NJ 07004 A Repair Station HX1R,008K	Altimete	Encoder /00	-10	٥	5	(0)	15	20	30	9	90	80	100	(30	140	160	180	900					Take: GACH	el: 60C	4780	19 Work Order No. 71, 747	CWF-013	+	CKS #HX I K208K	er Model 60	3 Appendix E as outlined			Formacieron			
	2		7		0	200	1000	1500	2000	3000	4000	0000	0008	10000	12000	14000	0009	18000	20000	22000	25000	30000	35000	Altimeter Make:	Altimeter N	Tested By:	Date:1-14	Š	1000	3	d on Altimet	h PAR Part 4	30,000	Date 1-14-19			1	
es he.	er Reads	Altimeter	- 990	0	505	10/0	1510	20/5	3010	0004	5980	7970	9965	07611	13960	15970	17930	19995					Ed Frist	1003	83	ler Not 1 24 %		-	- 8	ces, inc.	certify that the following tests were performed on Altimeter Model 6 DC 74A	n accordance with PAR Part 43	neter tested to					
C&W Aero servic 19 Wright Way, Se Fairfield, NJ 070	Altimet	Encoder				4 4				1 1													Make: Unt	Model: 593	SN 45 33	V. 19 Work Ord	WF-013		RW Aero Sonii	CIO SCIVI	ne following tes	5364 In	III, and IV. Altin	74	alen			
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Authority	ing Civil Aviation / County: Jnited States		RIZED RI					racking Numbe
4. Organiz	zation Name and A		Essex County Ai	o Services, Inc irport, 19 Wrig , NJ 07004-351	ht Way St	e #3	Invo	Order/Contract/ Dice Number: 1-747
6. Item	7. Description		8. Part Number		9. Qty.	10. Serial Number		11. Status / World
1	Air Date	Computer	011-008	82-00	1	47805964		Tested
		PART 43 APPE						
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Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wight Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wight Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 19 Wright Way Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1854 Paragon Aircraft Service, Inc. 10 Paragon Aircraft			TAL		SINCE	13. 13		ENGIN	EERING RECO	DRD
Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone (973)575-0384 Fax (973)244-1884 Date N' Number Make/Model Serial# Tach Hobbs Total Time W. O. 8/8/2018 N658DS Diamond DA40 40.662 3594.9 4640.4 3594.9 9532 Replaced right wing fuel drain valve CAV-180. Replaced #2 and #4 EGT probes A002BG-WIP. I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to yyork performed. Authorized Signature: Steven VanderValk A&P 2919106 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Date N Number Make/Model Serial# Tach Hobbs Total Time W. O. 1/25/2019 N658DS Diamond DA-40 40.662 3666.7 4726.4 3666.7 9680 All systems checked for condition and proper operation. Wheel bearings cleaned and repacked, brakes serviced. ELT checked FAR 91.207(d). Battery next due 9/2021. Replaced emergency backup battery. C/W Garmin G1000 ICA 100hr/annual inspection. Cleaned off flaking cow heat paint, prepped and painted cowl per manual. Replaced seal around air box. Installed new wintake fixed later on and flap rod ground strap. Removed and replaced rudder bearing. Removed and replaced both brake disks and all brake linings. Removed and replaced steering stop and set nose fork tension. J-19-07 fuel injector lines inspection. All AD's checked thru 19-01. I certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfiel	DATE	HRS.	MIN.	THE REPORT OF	of the last	NOTE:	JSE BOTH PA	GES AND AS	MANY LINES A	A REQUIRED F
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Authorized Signature: All Avigant Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. 1725/2019 N658DS Diamond DA-40 40.662 3666.7 4726.4 3666.7 9680 All systems checked for condition and proper operation. Wheel bearings cleaned and repacked, brakes serviced. ELT checked FAR 91.207(d). Battery next due 9/2021. Replaced emergency backup battery. CW Garmin G1000 ICA 100hr/annual inspection. Cleaned off flaking cow heat paint, prepped and painted cowl per manual. Replaced seal around air box. Installed new intake fix Replaced left aileron and flap rod ground strap. Removed and replaced seal around air box. Installed new intake fix Replaced left aileron and flap rod ground strap. Removed and replaced steering stop and set nose fork tension. J. 19-07 fuel injector lines inspection. All AD's checked thru 19-01. I certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. Tertify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to yvork performed. Authorized Signature: Date N* Number Make/Model Serials tach: Hobbs Total Time W. O. 6/17/2019 N658DS Diamond DA-40 40.662 3712 4782.4 Serviced all tire pressures. Insp and found nose steering tension satisfactorily. I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.										
Airframe Logbook Entry Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Date N' Number Make/Model Serial# Tach Hobbs Total Time W. O. 1/25/2019 N658DS Diamond DA-40 40.662 3666.7 4726.4 3666.7 9680 All systems checked for condition and proper operation. Wheel bearings cleaned and repacked, brakes serviced. ELT checked FAR 91.207(d). Battery next due 9/2021. Replaced emergency backup battery. CW Garmin G1000 ICA 100hr/annual inspection Cleaned off flaking cowl heat paint, prepped and painted cowl per manual. Replaced seal around air box. Installed new intake fixer and the proper operation. All AD's checked thru 19-01. I certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. I certify that the work described above was performed satisfactonily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed. Authorized Signature: Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884 Paragon Aircraft Service, Inc. Authorized Signature: John L Longaker A&P 3532411 IA Authorized Signature: John L Hobbs Total Time W. O. 6/17/2019 N658DS Diamond DA-40 40.662 3712 4782.4 9833 Serviced all tire pressures. Insp and found nose steering tension satisfactory. I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.	I certify that the w	ork descri	bed above	was perfo	ormed sat	isfactorily an	d in accordar	ce with appro	oved/acceptable	data and is
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	trance change negrigible	OTE **** GA55 XM Antenna. Insta AW STC# SA01714WI. Inse functionally tested and other aircraft systems FOUND TO COMPLY WITH A . Equipment list revise	lled Garmin GTX345R w/GPS rted GTX345R/ADS-B Flight was found to perform its . TESTED GARMIN GTX345R w/C C20-165 and 14 CFR 91.225 & d.	tanual PS
11/21	~			
Todd Adams				
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Co	W Aero Services	s, Inc. CRS# HX1	R208K	
		airfield, NJ 07004 (973)		
		: Beechcraft, Mooney		
WO # 31173	Tach: 3405.0	Aircraft TT:		
Reg. #: N658DS	Ser #: 40.662	Manuf.: Diamond	Model: DA40	
Line Maintenance Mani KS270C pitch servo P/I 2. XM music will not pla panel. Connect wires as music input OK. 3. G1000 alerts box has data path to PFD Arinc MFD. Reconfigure PFD	ual. Post test of autopilot sal N 065-00178-2500 S/N 7237 y in from jacks. Hook up wir s per Diamond Aircraft Option an on going message "Dat 429 channel 2 In. Confirmed	isfactory. y ing that was capped and sto on Service Bulletin OSB40-0 a Path Fail". Trouble shoot d issue was not the PFD dis Garmin G1000 Line Mainte	owed for the GMA1347 audio 042/1. Post test of XM and system and found a failed play by temp swapping the enance Manual. Post check	
FAA and is approved for return	engine, or appliance was repa to service. Permanent detail	s are on file at this Repair Stat		
Authorized Signature:	CRS # HXTR208K	Date: 4/6/2	017	
	4-17-78			
			AND THE RESIDENCE OF THE PARTY	THE RESERVE AND PROPERTY.

Source		TAL	TIME	SINCE FG.	71,040	le nerve d	ENGINEERING	RECORD
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE	BOTH PAGES	AND AS MANY L	INES AS REQUIRED
BROUGHT								
Airf(ame Logbook Entry			19 Wri	ight Way,	raft Service, Fairfield, NJ 070 364 Fax (973)244	004		Authorized Cirrus Service Center
Date	N' Number	Make/I	Model	Seria		A 10 10 10 10 10 10 10 10 10 10 10 10 10	Total Time	
9/5/2019	N658DS	Diamone	d DA40	40.66			Ainclulation on	9914
Removed OEM win This is considered a	g tip nav/strobe a minor alteratio	n. Update	d weight a	nd balance	e to reflect this c	hange.	n mstanation on	later seria!# aircraft.
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Authorized Signat	ure:	5	B /	4 II		Steven Va	nderValk A&P 2	919106
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LANCASTEF LOG ID# 614 N658DS	4 14-Novemb	C. 500-L per-2019 DIAMOND	WO# 246	78	LITITZ, PA 175	13 CRS# LN7	R261N	Pg 1/1
ACTION: Sent Ordered exch calibrations	ange KAP140 s, Ops checked	n M6382.	Installe	d exchang	ge unit in airc	raft. Þerfor	med configs and	ď
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Todd Adams Airframe Logbook Entry	ange KAP140 s, Ops checked	good.	Parago 19 Wrig Phone: (97	on Aircra	aft Service, In airfield, NJ 0700 64 Fax (973)244-	IC. 4 1884	ileu Comigs am	Authorized Cirrus Service Center
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4. Organi	zátion Name and Ad		Essex County Air	Services, In port, 19 Wri NJ 07004-35	ght Way St	e #3	In	rk Order/Contract/ voice Number: イチンテ
6. Item	7. Description		8. Part Number		9. Qty.	10. Serial Number	2011	11. Status / Work
1	Alhm	eter	59346	D-3	1	453083		Tested
to:	pproved design data	ified above were manufaction for data specified in Block 12	r safe operation.	Certifies that Block 11 and	unless other described in lations, part	n to Service Other rewise specified in Block Block 12 was accomplised and in respect to the vice.	12, the wo	ork identified in Title 14, Code of
13b. Aut	horized Signature:	13c. Approval/	Authorization No.:	14b. Authorize			14c. Approval/Certificate HX1R208K	
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Glern Roggenkamp

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

01-MAR-2021

SRQ Avionics 8191 N. Tamiami Trail B2 Sarasota, FL 34243 Date: 3/18/2021 Work Order:18144 N658DS; Model: DA40; SN: 40.662; Hobbs:5053.8 - Troubleshot PFD fan fail message on G1000 system, removed bad Sandia fan (PN:305-468-00 SN:1219) and ordered a new che (PN:305-468-00 SN:14331) and installed into aircraft. Fan is working properly now. Ramp tested operational. I certify all work done to the aircraft and component identified above were done in accordance with current regulations of the Sederal Aviation Administration and were found approved for return to service with respect to the work performed. _____, Larry Viergever for Sarasota Avionics Inc. QVOR957X **SRQ Avionics** 8191 N. Tamiami Trail B2 Sarasota, FL 34243 Date: 11/24/2021 Work Order: 18431 N658DS; Model: DA 40-180; SN: 40.662; Hobbs:5151.2 - Autopilot erratic in roll mode. Ramp test found roll servo not driving left or right when commanded by heading bug. Connected laptop computer and looked at fault logs and diagnostics. Found roll servo defective, subbed good servo and it works. Ordered a replacement servo from Southeast Aerospace. Removed bad roll servo (PN:065-00179-0300 SN:11677) and installed exchange servo (PN:065-00179-0300 SN:2224) in accordance with Diamond Aircraft Doc # 6.02.01 Rev 7 section 22-10-00, dated April 2013. Ramp tested operational. I certify all work done to the aircraft and component identified above were done in accordance with current regulations of the Federal Aviation Administration and were found approved for return to service with respect to the work performed. Vuesta Larry Viergever for Sarasota Avionics Inc. QVOR957X

AIR TIME AND



3330 AIRPORT LOG SALISBURY, NC 28-16 OFFICE: 704-431-65-1 INFO@SOUTHTECAVIATION.CO

DATE: APRIL 26, 2022 | DIAMOND DA40 | S/N: 40.662 | REG: N658DS

TACH: 4048.1 HRS. TTAF: 4048.1 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANSE MAINTENANCE MANUAL. AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

2000 HOUR INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL. AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

MAJOR STRUCTUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL, AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

AD 93-05-06 ACS IGNITION SWITCHES. COMPLIED WITH BY INSTALLING SWITCH KIT PART NUMBER A-3650-2 OPS CHECK GOOD. NEXT DUE AT TACH:6048.1

AD 15-19-07 EXTERNAL FUEL INJECTOR LINES. COMPLIED WITH BY INSPECTION IAW SERVICE BULLITEN (MSB) NO. 3426 DATED JULY 16, 2013: SUPPLEMENT NO. 1 TO MSB NO. 342G, DATED AUGUST 29, 2013; AND SUPPLEMENT NO. 2 TO MSB NO. 342G, DATED JANUARY 23, 2014. NO DEFECTS NOTED. NEXT DUE AFTER ANY MAINTENANCE IS DONE ON THE ENGINE WHERE ANY CLAMP ON A FUEL INJECTOR LINE WAS DISCONNECTED, MOVED, OR LOOSENED, AND WITHIN EVERY 110 HOUR TIS AND AFTER EACH ENGINE OVERHAUL.

MSB 40-091 NOSE LANDING GEAR LEG DUE INSPECTION. COMPLIED WITH MSB BY FOLLOWING DIAMOND AIRFRAFT WI-MSB 40-091 DATED JANUARY 18, 2021.

PERFORMED POWERFLOW EXHAUST INSTRUCTIONS FOR CONTINUED AIRWORTHYNESS.

COMPLIED WITH ATA CHAPTER 51 ELECTRICAL BONDING TEST. NEXT DUE IN AT 5048.1 HRS TTAF. COMPLIED WITH ATA CHAPTER 24 ESSENTIALS BUSS INSPECTION. NEXT DUE IN AT 5048.1 HRS TTAF.

ELT TESTED IN ACCORDANCE WITH CFR 91.207(d), EXP: FEBRUARY 2026.

- 1. REMOVED CLEANED AND ADJUSTED ELEVATOR TRIM MECHANISM.
- 2. REPLACED FUEL TANK INTERCONNECT HOSES AND CLAMPS.
- REMOVED AND REPLACED FIRE EXTINGUISHER MODEL A344T.
- REMOVED AND REPLACED FLP UP LIGHT BULB P/N T4.6 24-20.
- REMOVED AND REPLACED COWLING FIRE PAINT.
- REMOVED AND PAINTED RIGHT AND LEFT STEPS INSTALLED NED STEP PADSUSING P/N'S 20-5210-03-07 AND 20-5210-04-07.
- REMOVED AND REPAIRED LOWER COWLING AT EXHAUST HOLE.
- 8. PAINTED RIGHT WING LEADING EDGE.
- REPAIRED LEFT WING ROOT CORROSION.
- 10. ADJUSTED TAXI LIGHT LOWER.
- 11. CLEANED TRIM SWITCH WITH CONTACT CLEANER OPS CHECK GOOD.
- 12. PUT NEW WEIGHT AND BALANCE SHEET IN AIRCRAFT DUE TO MAX GROSS WEIGHT INCREASE.
- 13. REPLACED PAX DOOR AFT HINGE P/N DA4-5200-00-51, INSTALLED NEW HINGE SHAFT P/N 415452.
- 14. REPLACED NOSE TIRE TUBE WITH NEW P/N 302-013-400 TUBE.
- 15. REPLACED RIGHT WING SUMP DRAIN P/N CAV-180.
- REPLACED RIGHT AND LEFT WING T SEALS P/N DA-9057-00-01.
- 17. REPLACED TOP COMM ANTENNA PI/N DM C63-1/A.
- 18. REPLACED RIGHT FLAP BONDING STRAP.
- 19. REPLACED TRIM BELLOWS P/N K050201001.
- 20. REPLACED PAX WINDOW SEAL.
- 21. REPLACED TWO STATIC WICKS P/N 16630.
- 22. REPLACED AUDIO ALERT INDICATOR P/N E-04.7.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND RETURNED TO SERVICE.

Turky Dolar

INSPECTION, REPAIRS & REPLACEMENT RIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

NEW ENGLAND AERO SERVICES

AIRFRAME MAINTENANCE RECORD

Make	Model	Serial Number	Registration	Date
Diamond	DA40	40.662	N658DS	6-8-2023
Tach Time:	4127.3	AF TT:	Hobbs:	

Performed an annual inspection using a Diamond checklist.

The following additional maintenance was performed:

1. Entire aircraft lubed, brake reservoir and battery serviced.

Tested ELT I/A/W FAR 91.207 (d). Battery next due 2-5-2026.

C/W the following Ad's:

All ADs checked for compliance through issue 2023-12.

I certify that the above stated maintenance and/or inspection(s) was performed in accordance with the current FAR's, and the airframe or engine identified above was found to be in an airworthy condition and is approved for return to service with the work performed. Details are located on file under Work Order No._____

Signature:

Name: Gerry Sykes. Certificate Number: A&P 3664796 IA

C&W Aero Services, Inc. CRS# HX1R208K

19 Wright Way, Suite #3, Fairfield, NJ 07004 (973) 227-5750 An Authorized Service Center For: Beechcraft, Mooney Aircraft & Piper

WO# 36500	Tach: 4129.9	Aircraft TT:	
Reg. #: N658DS	Ser #: 40.662	Manuf: Diamond	Model: DA40

The ATC Transponder tests and inspection required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. The Pitot/Static System has been inspected in accordance with FAR 91.41 and found to be AIRWORTHY. Details of these inspections are on file at this repair station.

Transponder #1 Make/Model: Garmin GTX345R Air Data Computer #1 Make/Model: Garmin GDC7

Authorized Signature:

SN: 3EH420778 SN: 47805964

Date: 6/16/2023

Authority	ing Civil Aviation / County: Jnited States		PRIZED RE	With the second				Tracking Number
4. Organiz	zation Name and A	ddress:	Essex County Air	Services, Inc. port, 19 Wrigh NJ 07004-3510	nt Way St	e #3	In	rk Order/Contract/ voice Number: 500
6. Item	7. Description		8. Part Number	3. 15.7. 1811	9. Qty.	10. Serial Number	William !	11. Status / Work
1	Air Date	Computer	011-008	87-00	1	47805964		Tested
No Cost	fies the items iden	tified above were manuf	actured in conformit	140 🖾 14 000	42.0 Pot	a to Sorvice C Other re	gulation s	posified in Block 1
to: Ap	pproved design data on-approved design	tified above were manufa a and are in a condition for data specified in Block 1	or safe operation.	Certifies that ur Block 11 and de Federal Regulat approved for re	nless other escribed in tions, part eturn to ser	n to Service Other rewise specified in Block Block 12 was accomplised and in respect to the vice.	12, the wo shed with I at work, the	rk identified in Fitle 14, Code of e items are
to: Ap	proved design data	a and are in a condition for data specified in Block 1	or safe operation.	Certifies that ur Block 11 and de Federal Regulat	nless other escribed in tions, part eturn to ser	wise specified in Block Block 12 was accomplis 13 and in respect to tha	12, the wo shed with 1 at work, the 14c. App	rk identified in Fitle 14, Code of
to:	pproved design data on-approved design	a and are in a condition for data specified in Block 1	or safe operation.	Certifies that ur Block 11 and de Federal Regulat approved for re	nless other escribed in tions, part eturn to ser Signature: or Printed)	wise specified in Block Block 12 was accomplis 13 and in respect to tha vice.	12, the wo shed with 1 at work, the 14c. App	rk identified in Fitle 14, Code of e items are proval/Certificate No

AIR TIME AND

DATE	DA TO	TOTAL TOTAL AIR TIME SINCE MFG.		SINCE	ENGINEERING RECORD				
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIR				
BR		NEW ENGLAN		D AERO SERVICES					
					INTENAN				
	Make	Mode		Serial	Number	R	egistration	Date	
Dia	mond	DA40)	40	.662		N658DS	7-12-2024 —	
	Time:	4183.		FTT:		4183.7	Hobbs:	5350.6	
I certi	2. Rotate 3. Install Tested ELT the following 2022-13-0 All ADs cl fy that the above and the airfree	ed right M led new er I I/A/W F Ad's: D6 Affecte necked for ve stated i	LG tire for mergency AR 91.20 ed baggar compliar maintenance me identific	battery P 7 (d). Ba ge net n nce through the and/or and above y	ttery next do tot installed gh issue 20 inspection(s	60-93-00. ue FEB 5 d in aircra 24-13.) was perfo be in an a	Next due 7/2026 /2026. aft. No action recorded	quired. — ce with the current and is approved for —	
Signa	ature:	<i>yy</i>	- Nam	e. <u>Gen</u>	y Syres.	cerunca	te Number. At	&P 3664796 IA —	
5									
5									