

BOAT Name FOX 2.0 Sail Nr USA 55052	GPH 427.2	HULL Length Overall 15.850m Maximum Beam 4.418m Displacement 7,129kg Draft 3.607m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL Class Botin 52 Designer BOTIN PARTNERS Builder Longitud Cero Series 07/2020 Age 07/2020 Age Allowance 0.000% Offset File BOTIN 52-USA55052.off - 15/06/2020 Measurement by - 18/07/2020		IMSLS 15.498m VCGD -1.236m Sink 32.71kg/mm RL 16.395m VCGM -1.340m WS 40.74m² LSM0 15.155m Displacement/Length ratio 2.0481



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	418.7			479.0		
Time on Time	1.4329			1.4091		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	487.7	382.2	324.6	640.5	487.4	408.9
Time on Time	1.3840	1.7660	2.0797	1.0539	1.3850	1.6508

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	697.8	585.9	542.6	521.5	505.4	493.6	487.2
52°	448.0	396.1	378.3	367.2	358.0	346.2	335.3
60°	417.8	380.2	361.5	347.4	336.3	328.3	313.6
75°	396.6	358.1	333.2	317.1	304.7	295.2	280.2
90°	395.0	350.8	315.8	296.4	282.3	271.6	257.0
110°	418.1	366.2	324.6	296.3	271.0	251.0	228.2
120°	441.9	378.3	334.1	295.9	268.7	248.2	219.3
135°	517.4	408.7	363.8	321.0	282.9	255.9	207.1
150°	623.2	483.8	412.8	369.0	333.1	293.6	231.7
Run VMG	719.7	558.6	476.7	429.7	384.7	339.0	267.5

Certificate
Number **US6718**
ORC Ref **03410000T5H**
Issued On **02/12/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **1,245kg**
Maximum **1,178kg**
Minimum* **884kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	465.8	1.2881
Non Spin OSN	457.5	1.3116

Selected Courses							
Windward / Leeward	708.7	572.2	509.6	475.6	445.0	416.3	377.4
Circular Random	587.3	476.2	415.6	378.3	352.4	332.6	303.3
Coastal / Long Distance	709.8	537.4	455.5	402.4	365.6	332.7	283.3
Non Spinnaker	651.0	522.9	452.3	408.7	379.1	357.2	325.4

Sails Limitations

Headsails	Spinnakers
7	5

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.6°	41.3°	39.0°	37.7°	36.8°	36.0°	36.0°
Beat VMG	5.16	6.14	6.63	6.90	7.12	7.29	7.39
52°	8.04	9.09	9.52	9.80	10.06	10.40	10.74
60°	8.62	9.47	9.96	10.36	10.70	10.97	11.48
75°	9.08	10.05	10.80	11.35	11.82	12.19	12.85
90°	9.11	10.26	11.40	12.15	12.75	13.25	14.01
110°	8.61	9.83	11.09	12.15	13.28	14.34	15.77
120°	8.15	9.52	10.78	12.17	13.40	14.50	16.42
135°	6.96	8.81	9.90	11.21	12.73	14.07	17.38
150°	5.78	7.44	8.72	9.76	10.81	12.26	15.54
Run VMG	5.00	6.44	7.55	8.38	9.36	10.62	13.46
Gybe Angles	141.0°	141.5°	147.0°	151.5°	143.0°	143.0°	144.3°

Class Division Length
CDL = **15.944**

Storm Sails Areas
Heavy Weather Jib **55.40**
Storm Jib (JL=13.17) **20.52**
Storm Trysail **25.97**

Owner

BOAT	
Name FOX 2.0	Sail Nr USA 55052
File US6718	Data in meters/kilograms

RIG	
Forestay Tension Aft & Forward	Spreaders 3
Inner Stay None Fitted	Runners/Checkstays 1
Carbon Mast Yes	Jib Furler No
Fiber Rigging Yes	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 21.000	E 7.065 MDT1 0.134 MW 0.298
IG 20.185	J 6.195 MDL1 0.344 GO 0.320
ISP 22.940	SFJ 0.655 MDT2 0.107 BD 0.350
BAS 1.945	SPL 0.180 MDL2 0.180 MWT 270.80
FSD 0.092	TPS 9.200 TL 1.870 MCG 7.740

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 18/07/2020	SG 1.0000	
FFM 1.081	FF 1.089	SFFP 0.597
FAM 1.021	FA 1.025	SAFP 15.186
W1 166.0	PD1 591.0	WD 19.350
W2 166.0	PD2 592.4	GSA 1.0
W3 166.0	PD3 592.8	RSA 1.0
W4 166.0	PD4 591.9	PLM 9000.0
LCF from stem on CL / on sheer	8.825 / 9.088	
Maximum beam station from stem	13.694	
RM Measured	427.3kg-m	
RM Default	357.2kg-m	
Limit of positive stability / Stab.Index	142.4° / 141.3	
Freeboard at mast at 6.850	1.208	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.430	
Type Folding 2 blades	PBW 0.100	
Twin Screw No	PIPA 0.0031	
ST1 0.050	ST3 0.134	ST5 0.350
ST2 0.134	ST4 0.092	EDL 1.116

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	2.10	2.63	3.61	4.97	6.07	100.45	103.06	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	25.97	21.87	23.92	13.55	14.03	272.01	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB), HS flying rated area = 105.52												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.13	1.01	1.87	3.32	4.78	6.18	20.36	66.44	Y	No	10/11/2020	Unknow	Q143701
0.13	1.01	1.87	3.32	4.78	6.18	20.36	66.44	Yes	10/11/2020	Unknow		

MEASUREMENT INVENTORY				
Measurer				
Date 18/07/2020				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
1	Engine			Lombardini LDW 1404
Id	Item	Weight Description		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
1	Tank Fuel		PVC	49.0	9.75	0.00	11.0	on centerline	
Id	Item	Weight	Distance	VCG Description					
2	Battery	12.5	11.30	0.00 MasterVolt ML1E 12/200 12V house					
1	Battery	1.7	11.30	0.00 Super Bee 12V 10 Ah engine					

