

BOAT Name FOX 2.0 Sail Nr USA 55052	GPH 428.5	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 16.551m 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	418.0			477.5		
Time on Time	1.4354			1.4137		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	491.0	382.5	324.5	641.2	485.9	407.4
Time on Time	1.3747	1.7646	2.0804	1.0527	1.3892	1.6567

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	705.9	582.8	540.0	519.0	503.1	491.4	484.8
52°	456.4	394.7	377.1	365.9	357.4	344.7	333.3
60°	427.3	380.4	360.3	346.5	337.2	326.6	311.8
75°	408.8	366.6	335.6	318.9	307.8	299.9	278.3
90°	411.7	366.5	329.7	301.5	285.3	273.8	258.5
110°	419.7	365.6	323.6	295.1	274.9	257.9	226.9
120°	440.9	377.9	333.5	294.9	267.3	246.8	219.5
135°	516.4	408.2	363.4	320.6	282.2	254.5	205.9
150°	622.2	483.0	412.5	368.7	332.7	293.1	231.1
Run VMG	718.5	557.7	476.3	429.4	384.2	338.4	266.8

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Number **US6718**
ORC Ref **03410000QB2**
Issued On **14/09/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **1,245kg**
Maximum **1,300kg**
Minimum* **975kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	463.7	1.2939
Non Spin OSN	455.7	1.3166

Selected Courses							
Windward / Leeward	712.2	570.3	508.1	474.2	443.6	414.9	375.8
Circular Random	591.4	478.3	416.7	378.8	352.5	332.4	301.8
Coastal / Long Distance	712.8	536.6	455.3	401.8	365.2	331.8	282.8
Non Spinnaker	647.7	520.4	450.3	407.0	377.5	355.6	323.6

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	43.9°	41.3°	39.0°	37.5°	36.4°	35.8°	35.8°
Beat VMG	5.10	6.18	6.67	6.94	7.16	7.33	7.43
52°	7.89	9.12	9.55	9.84	10.07	10.44	10.80
60°	8.43	9.46	9.99	10.39	10.67	11.02	11.55
75°	8.81	9.82	10.73	11.29	11.69	12.00	12.93
90°	8.74	9.82	10.92	11.94	12.62	13.15	13.93
110°	8.58	9.85	11.13	12.20	13.10	13.96	15.87
120°	8.17	9.53	10.80	12.21	13.47	14.59	16.40
135°	6.97	8.82	9.91	11.23	12.76	14.15	17.48
150°	5.79	7.45	8.73	9.76	10.82	12.28	15.58
Run VMG	5.01	6.45	7.56	8.38	9.37	10.64	13.49
Gybe Angles	140.5°	141.5°	147.3°	151.5°	143.0°	143.0°	144.3°

Class Division Length

CDL = 16.024

Storm Sails Areas

Heavy Weather Jib **55.40**
Storm Jib (JL=13.17) **20.52**
Storm Triesail **25.97**

Owner

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

RIG	Forestay Tension Aft	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	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		361.2kg-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



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	2.28	2.81	3.69	5.02	6.07	101.74	104.40	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)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.07	1.04	1.86	3.42	4.90	6.26	20.45	67.98	Y	No	31/08/2020	Unknow	Q143701

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

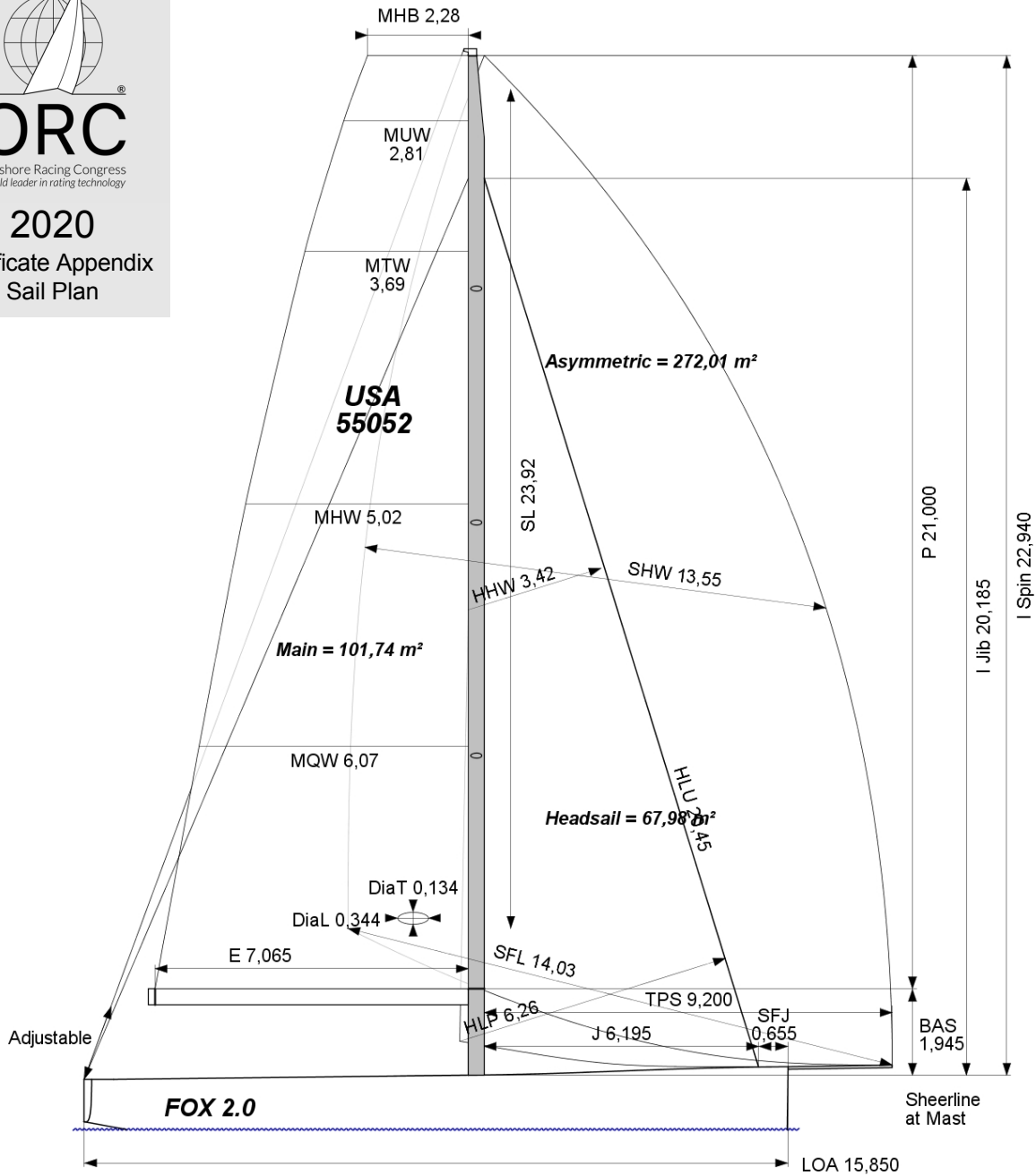
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
1	Tank Fuel		PVC	49.0	9.75	0.00	11.0	on centerline	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
2	Battery	12.5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



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
LT Main	2.28	2.81	3.69	5.02	6.07	101.67		31/08/2020	Quantum	Unknown	Q143699					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J 1.5	0.07	1.04	1.86	3.42	4.90	6.26	20.45	101%	67.98	Y	No		31/08/2020	Quantum	Unknow	Q143701
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A2-1	25.97	21.87	23.92	13.55	14.03	272.02	asym		08/09/2020	Quantum	Unknown	Q141157				
MH0	24.07	22.34	23.21	9.18	11.73	187.39	asy79		11/09/2020	Quantum	Unknown	q141158				
FR0	22.56	18.92	20.74	8.30	10.67	151.65	asy78		11/09/2020	Quantum	Unknown	Q142710				