

BOAT Name FOX Sail Nr USA 55052	GPH 432.7	HULL Length Overall 15.850m Maximum Beam 4.422m Displacement 7,044kg Draft 3.603m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension IMSL 15.444m VCGD -1.319m Sink 32.41kg/mm RL 16.368m VCGM -1.321m WS 41.02m² LSM0 15.130m Displacement/Length ratio 2.0338
GENERAL Class Pac 52 Designer BOTIN PARTNERS Builder Series 01/2015 Age 06/2015 Age Allowance 0.130% Offset File US42602F.OFF - 07/11/2018 15:40:12 Measurement by - 11/05/2016		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	421.9			479.3		
Time on Time	1.4222			1.4084		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	494.3	386.7	328.5	641.6	487.6	409.5
Time on Time	1.3656	1.7456	2.0548	1.0520	1.3842	1.6484

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	705.7	584.5	542.6	521.9	505.1	494.0	488.0
52°	457.0	396.1	378.9	368.2	359.8	346.9	336.9
60°	428.2	381.6	362.5	349.2	340.2	329.0	315.6
75°	410.0	367.8	337.6	321.5	310.9	303.3	282.0
90°	413.1	370.2	331.1	303.8	288.3	277.2	261.6
110°	446.5	378.0	343.9	317.7	291.4	262.1	229.8
120°	461.6	383.8	339.1	312.4	290.4	264.9	231.3
135°	516.9	408.6	364.0	321.3	283.2	256.4	223.0
150°	622.0	483.4	413.1	368.6	334.0	294.5	232.1
Run VMG	718.2	558.2	477.1	430.4	385.7	340.0	268.0

Certificate
Number **US6322**
ORC Ref **USAX021ORMN**
Issued On **08/03/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **1,242kg**
Maximum **1,242kg**
Minimum* **932kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	466.2	1.2870
Non Spin OSN	458.2	1.3093

Selected Courses							
Windward / Leeward	712.0	571.3	509.9	476.2	445.4	417.0	378.0
Circular Random	596.2	482.5	420.8	382.9	356.6	336.5	306.5
Coastal / Long Distance	712.6	538.0	457.4	406.1	371.0	337.3	287.9
Non Spinnaker	650.6	523.0	452.7	409.4	379.9	358.1	326.4

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	43.6°	40.9°	39.0°	37.7°	36.4°	35.8°	36.1°
Beat VMG	5.10	6.16	6.63	6.90	7.13	7.29	7.38
52°	7.88	9.09	9.50	9.78	10.01	10.38	10.69
60°	8.41	9.43	9.93	10.31	10.58	10.94	11.41
75°	8.78	9.79	10.66	11.20	11.58	11.87	12.77
90°	8.71	9.73	10.87	11.85	12.49	12.99	13.76
110°	8.06	9.52	10.47	11.33	12.36	13.74	15.67
120°	7.80	9.38	10.62	11.52	12.40	13.59	15.56
135°	6.96	8.81	9.89	11.20	12.71	14.04	16.14
150°	5.79	7.45	8.71	9.77	10.78	12.23	15.51
Run VMG	5.01	6.45	7.55	8.36	9.33	10.59	13.43
Gybe Angles	140.2°	141.7°	147.3°	151.6°	143.2°	142.7°	144.4°

Class Division Length
CDL = **15.907**

Storm Sails Areas

Heavy Weather Jib	55.34
Storm Jib (JL=13.16)	20.50
Storm Trysail	25.90

Owner

BOAT	
Name FOX	Sail Nr USA 55052
File US6322	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay None Fitted	Runners 1
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler
Fiber Rigging Yes	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 21.200	E 6.980 MDT1 0.133 MW 0.282
IG 20.245	J 6.200 MDL1 0.300 GO 0.282
ISP 23.145	SFJ 0.540 MDT2 0.104 BD 0.360
BAS 1.945	SPL 0.000 MDL2 0.152 MWT 270.80
FSP 0.070	TPS 9.000 TL 3.085 MCG 8.000

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 14/07/2018		SG 1.0230	
FFM 1.465	FF 1.466	SFFP 0.406	
FAM 1.120	FA 1.120	SAFP 15.845	
W1 122.1	PD1 449.0	WD 19.340	
W2 122.1	PD2 449.0	GSA 1.0	
W3 122.1	PD3 449.0	RSA 1.0	
W4 122.1	PD4 449.0	PLM 9000.0	
LCF from stem on CL / on sheer		8.806 / 9.069	
Maximum beam station from stem		11.379	
RM Measured		414.2kg-m	
RM Default		358.3kg-m	
Limit of positive stability / Stab.Index		142.9° / 141.7	
Freeboard at mast at 6.740		1.240	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.110		
Twin Screw	PIPA 0.0026		
ST1 0.045	ST3 0.160	ST5 0.310	
ST2 0.160	ST4 0.086	EDL 1.200	

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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	
	1.990	2.66	3.57	4.97	6.10	101.04	103.68	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		
	26.40	21.88	24.14	13.27	13.59	268.24	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	Fly	Meas.Date	Material	Comment
0.09	1.05	1.77	3.30	4.74	6.19	20.65	66.84			J-1 2018		

MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Id	Item	Weight	Distance	VCG Description
a	Ancher	0-0	0-00	
Id	Item	Weight	Description	

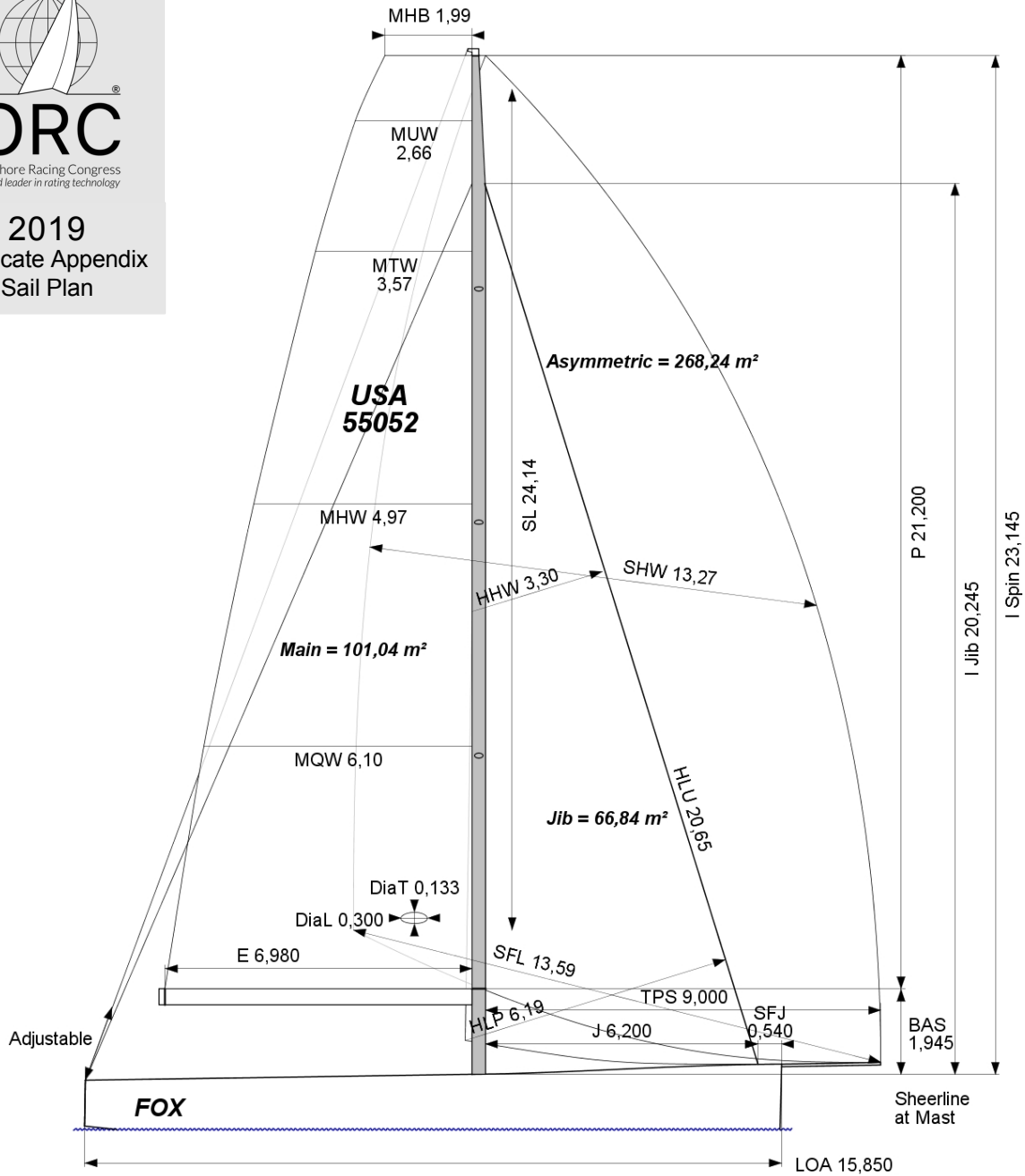
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
		Tank				0.00	0.00	0-0	
Id	Item	Weight	Distance	VCG	Description				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1957614	1.99	2.66	3.57	4.97	6.10	101.05			DAVID		MN-5 MEASURED 16					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1957623	0.09	1.05	1.77	3.30	4.74	6.19	20.65	100%	66.84					DAVID		J-1 2018
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1957635	26.40	21.88	24.14	13.27	13.59	268.24	asym			DAVID		A-2 JULY 2018				