

BOAT	GPH	HULL
Name FOX Sail Nr USA 55052	432.9	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
GENERAL		IMSL 15.444m VCGD -1.319m Sink 32.41kg/mm RL 16.394m VCGM -1.321m WS 41.02m² LSM0 15.130m Displacement/Length ratio 2.0338
Class Pac 52 Designer BOTIN PARTNERS Builder Series 01/2015 Age 06/2015 Age Allowance 0.098% 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	422.2			479.4		
Time on Time	1.4211			1.4079		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	494.8	386.8	328.6	642.6	487.7	409.1
Time on Time	1.3643	1.7450	2.0542	1.0505	1.3841	1.6499

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	704.7	584.6	542.7	521.5	504.1	493.1	486.8
52°	456.3	396.2	379.1	368.4	359.6	346.7	336.8
60°	427.7	381.7	362.8	349.6	340.5	329.0	315.6
75°	409.7	367.7	338.0	322.0	311.4	303.9	282.5
90°	413.9	369.9	331.1	304.3	289.0	278.0	263.4
110°	446.5	378.0	344.3	318.0	291.4	262.4	230.5
120°	462.7	383.7	339.3	313.2	290.3	265.5	231.6
135°	519.4	409.1	364.1	321.2	283.4	257.2	222.9
150°	624.2	485.0	413.6	368.8	334.1	295.1	232.1
Run VMG	720.8	560.0	477.6	430.6	385.8	340.8	268.0
Selected Courses							
Windward / Leeward	712.7	572.3	510.2	476.0	445.0	416.9	377.4
Circular Random	596.7	482.8	421.0	383.0	356.8	336.6	306.5
Coastal / Long Distance	713.6	538.9	457.7	406.2	370.9	337.6	288.2
Non Spinnaker	652.1	523.9	453.2	409.6	380.0	358.1	326.5

Certificate

Number **US6322**
ORC Ref **USAX01ORTC2**
Issued On **08/11/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **1,242kg**
Maximum **1,165kg**
Minimum* **874kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	466.7	1.2856
Non Spin OSN	458.5	1.3085

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	43.7°	40.8°	38.9°	37.5°	36.3°	35.6°	35.6°
Beat VMG	5.11	6.16	6.63	6.90	7.14	7.30	7.40
52°	7.89	9.09	9.50	9.77	10.01	10.38	10.69
60°	8.42	9.43	9.92	10.30	10.57	10.94	11.41
75°	8.79	9.79	10.65	11.18	11.56	11.85	12.74
90°	8.70	9.73	10.87	11.83	12.46	12.95	13.67
110°	8.06	9.52	10.46	11.32	12.35	13.72	15.62
120°	7.78	9.38	10.61	11.49	12.40	13.56	15.54
135°	6.93	8.80	9.89	11.21	12.70	14.00	16.15
150°	5.77	7.42	8.70	9.76	10.78	12.20	15.51
Run VMG	4.99	6.43	7.54	8.36	9.33	10.56	13.43
Gybe Angles	140.7°	141.5°	147.5°	151.4°	142.9°	143.0°	144.4°

Class Division Length

CDL = **15.920**

Storm Sails Areas

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

Owner

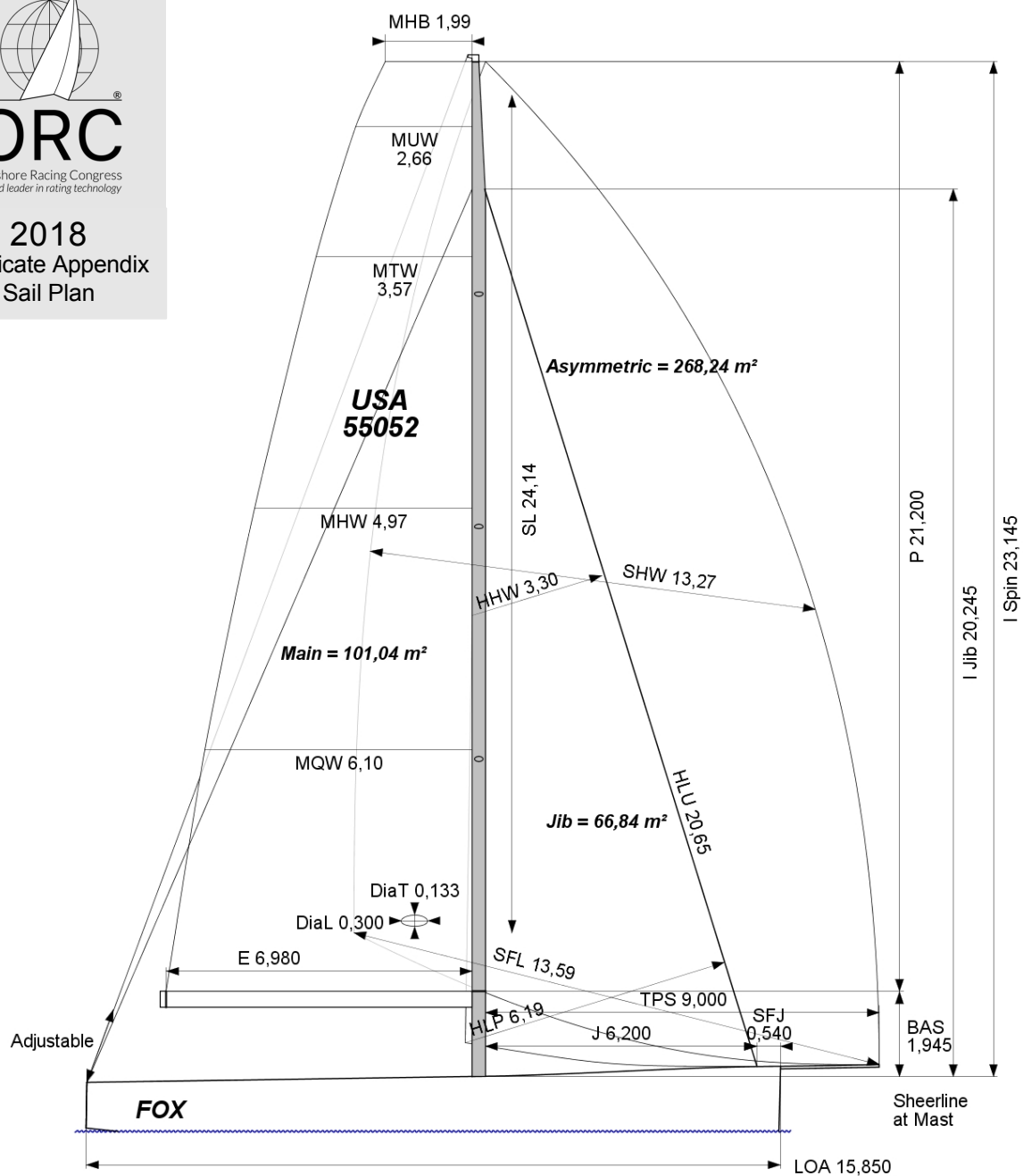
BOAT Name FOX Sail Nr USA 55052 File US6322 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 14/07/2018 SG 1.0230		 ORC Offshore Racing Congress World leader in rating technology 2018 IMS Measurement Certificate																																
RIG 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		FFM 1.465 FF 1.466 SFFP 0.406 FAM 1.120 FA 1.120 SAFF 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																																		
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		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																																		
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																																		
COMMENTS N/A		MOVABLE BALLAST N/A		 Invalid for racing ORC World Leader In Rating Technology																																
		CENTERBOARD N/A																																		
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																															
	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) <table border="1"> <thead> <tr> <th>HHB</th> <th>HUW</th> <th>HTW</th> <th>HHW</th> <th>HQW</th> <th>HLP</th> <th>HLU</th> <th>Area</th> <th>Btn</th> <th>Fly</th> <th>Meas.Date</th> <th>Material</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.09</td> <td>1.05</td> <td>1.77</td> <td>3.30</td> <td>4.74</td> <td>6.19</td> <td>20.65</td> <td>66.84</td> <td></td> <td></td> <td></td> <td></td> <td>J-1 2018</td> </tr> </tbody> </table>									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		
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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
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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