

BOAT	GPH	HULL
Name FOX Sail Nr USA 55052	434.1	Length Overall 15.850m Maximum Beam 4.420m Displacement 6,954kg Draft 3.600m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 15.411m VCGD -1.249m Sink 32.11kg/mm RL 16.162m VCGM -1.249m WS 40.70m² LSM0 15.057m Displacement/Length ratio 2.0371
Class Pac 52 Designer BOTIN PARTNERS Builder Series 01/2015 Age 06/2015 Age Allowance 0.098% Offset File US42602J.OFF - 16/07/2018 17:48:50 Measurement by - 11/05/2016		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	423.3			480.6		
Time on Time	1.4175			1.4044		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	496.4	387.7	329.4	645.1	489.0	410.1
Time on Time	1.3598	1.7411	2.0490	1.0464	1.3804	1.6458

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	713.2	588.3	546.0	525.2	508.2	496.7	490.0
52°	460.9	397.5	380.2	369.8	362.1	348.4	338.7
60°	431.0	382.7	363.9	350.9	342.1	330.0	317.3
75°	411.5	368.4	338.8	323.1	312.7	306.1	283.9
90°	415.1	370.1	331.2	304.9	290.0	279.2	264.0
110°	446.6	378.0	344.5	318.6	290.7	262.4	231.5
120°	462.5	383.4	339.1	313.8	290.0	265.9	231.0
135°	518.9	408.6	363.2	320.3	282.7	257.7	223.1
150°	623.4	484.1	412.9	367.9	332.7	293.4	231.2
Run VMG	719.8	559.0	476.8	429.8	384.2	338.8	267.0
Selected Courses							
Windward / Leeward	716.5	573.6	511.4	477.5	446.2	417.7	378.5
Circular Random	598.9	484.3	422.1	383.9	357.6	337.5	307.6
Coastal / Long Distance	716.8	539.9	458.7	407.4	371.8	338.3	288.7
Non Spinnaker	654.2	525.1	454.1	410.4	380.7	358.9	327.5

Certificate

Number **US6322**
ORC Ref **USAX01EC7M0**
Issued On **16/07/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **1,234kg**
Maximum **1,165kg**
Minimum* **874kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 467.8	1.2826
Non Spin OSN 459.4	1.3061

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°	41.1°	39.2°	37.8°	36.9°	36.0°	35.9°
Beat VMG	5.05	6.12	6.59	6.85	7.08	7.25	7.35
52°	7.81	9.06	9.47	9.73	9.94	10.33	10.63
60°	8.35	9.41	9.89	10.26	10.52	10.91	11.35
75°	8.75	9.77	10.63	11.14	11.51	11.76	12.68
90°	8.67	9.73	10.87	11.81	12.41	12.89	13.64
110°	8.06	9.52	10.45	11.30	12.38	13.72	15.55
120°	7.78	9.39	10.62	11.47	12.41	13.54	15.59
135°	6.94	8.81	9.91	11.24	12.73	13.97	16.14
150°	5.77	7.44	8.72	9.78	10.82	12.27	15.57
Run VMG	5.00	6.44	7.55	8.38	9.37	10.63	13.48
Gybe Angles	140.7°	141.6°	147.5°	151.4°	142.8°	143.0°	144.7°

Class Division Length

CDL = **15.788**

Storm Sails Areas

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

Owner

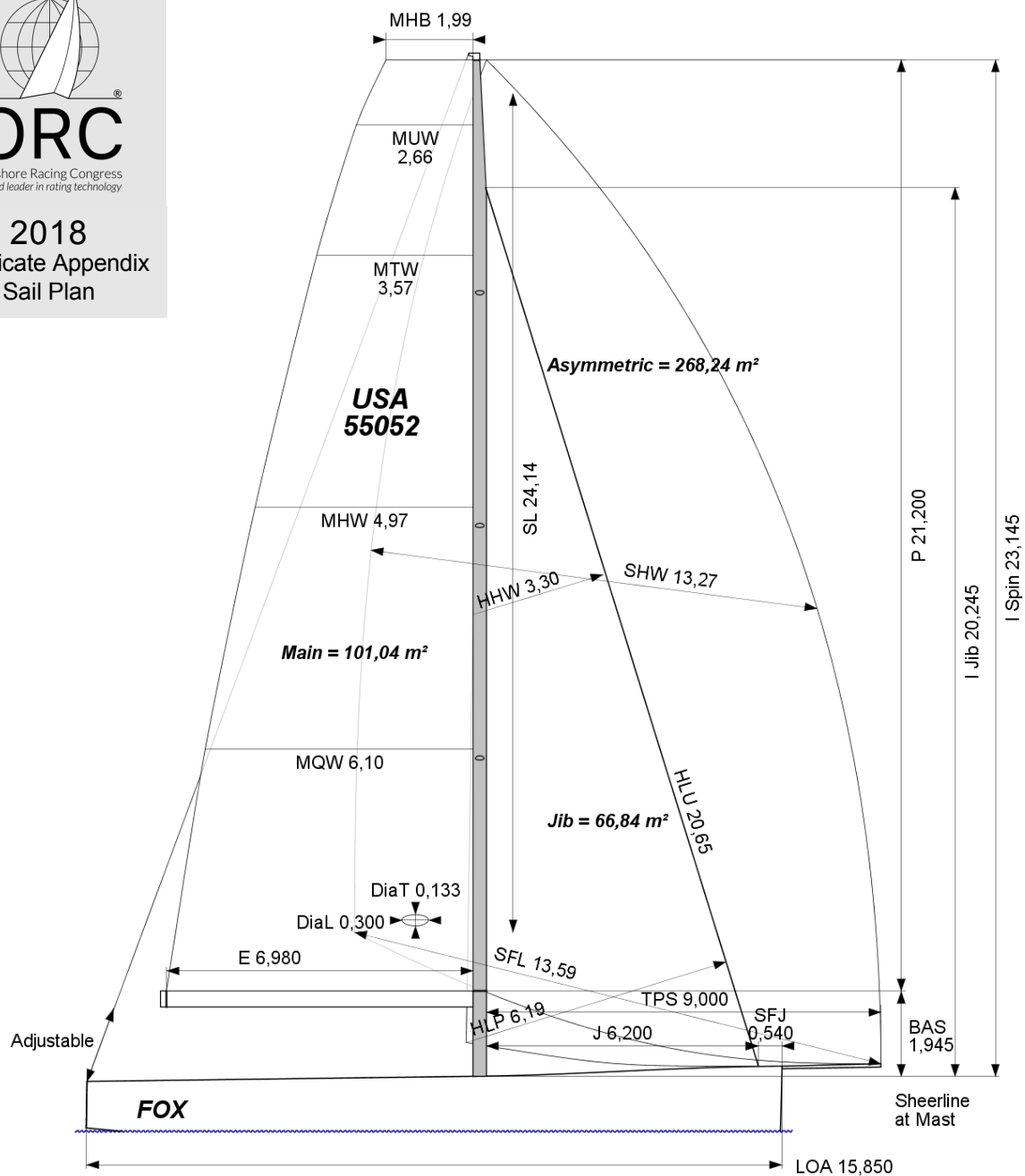
BOAT Name FOX Sail Nr USA 55052 File US6322 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 14/07/2018 SG 1.0160		 ORC Offshore Racing Congress World leader in rating technology 2018 IMS Measurement Certificate																																
RIG Forestay Tension Aft Spreaders 3 Inner Stay None Fitted Runners 0 Carbon Mast Yes Jumper Struts None Taper Hollows No Jib Furler Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No		FFM 1.468 FF 1.471 SFFP 0.406 FAM 1.129 FA 1.130 SAFFP 15.845 W1 129.5 PD1 494.4 WD 19.350 W2 129.5 PD2 494.4 GSA 1.0 W3 129.5 PD3 494.4 RSA 1.0 W4 129.5 PD4 494.4 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 8.762 / 9.025 Maximum beam station from stem 10.567 RM Measured 399.1kg-m RM Default 355.7kg-m Limit of positive stability / Stab.Index 141.8° / 140.6 Freeboard at mast at 6.740 1.242																																		
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	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$																												
Symmetric Not Available																																				
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL																															
	26.40	21.88	24.14	13.27	13.59	268.24		$AS \cdot (SFL + 4 \cdot SHW) / 6$																												
HEADSAILS Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$ <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	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	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	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Meas.Date	Manufacture	Material	Comment
1957635	26.40	21.88	24.14	13.27	13.59	268.24	asym	DAVID			A-2 JULY 2018