

BOAT	GPH	HULL
Name BAD CAT Sail Nr USA 63	575.6	Length Overall 11.085m Maximum Beam 3.267m Displacement 4,323kg Draft 2.208m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.127% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 10.417m VCGD -0.140m Sink 18.34kg/mm RL 9.931m VCGM -0.159m WS 23.90m² LSM0 10.100m Displacement/Length ratio 4.1959
Class J 111 Designer JOHNSTONE Builder CCFC Series 02/2011 Age 03/2012 Age Allowance 0.260% Offset File US42175.OFF - 15/06/2011 15:11:16 Measurement by - 25/03/2017		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	559.6			629.5		
Time on Time	1.0722			1.0723		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	652.6	511.7	457.2	841.1	629.1	555.4
Time on Time	1.0343	1.3191	1.4765	0.8025	1.0730	1.2154

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	972.5	794.6	701.7	670.0	657.1	648.6	634.5
52°	637.8	532.2	491.1	477.8	472.1	469.1	460.0
60°	602.8	512.4	479.4	465.1	458.3	454.4	445.3
75°	576.1	499.2	470.0	450.8	436.2	428.1	421.0
90°	581.1	491.9	469.5	447.9	426.2	408.5	388.5
110°	568.9	482.2	449.2	428.7	413.9	398.8	370.6
120°	581.8	487.4	451.0	418.7	395.6	378.4	347.6
135°	649.8	521.3	470.0	437.5	403.6	369.8	310.3
150°	770.3	612.9	519.2	473.1	449.1	424.7	354.7
Run VMG	889.4	707.8	599.6	545.8	518.5	485.6	409.6
Selected Courses							
Windward / Leeward	931.0	751.2	650.6	607.9	587.8	567.1	522.0
Circular Random	787.4	637.6	558.7	513.7	485.5	465.3	433.3
Coastal / Long Distance	926.8	706.2	590.7	531.2	499.2	469.8	415.8
Non Spinnaker	869.3	695.1	600.5	544.8	510.0	486.3	454.4

Certificate

Number **US6203**
ORC Ref **USAX025PAQ8**
Issued On **26/04/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default **698kg**
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	620.0	0.9677
Non Spin OSN	602.3	0.9963

Sails Limitations

Headsails	Spinnakers
6	4

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	42.6°	41.2°	39.4°	37.9°	37.3°	37.0°	36.8°
Beat VMG	3.70	4.53	5.13	5.37	5.48	5.55	5.67
52°	5.64	6.76	7.33	7.53	7.63	7.67	7.83
60°	5.97	7.03	7.51	7.74	7.85	7.92	8.08
75°	6.25	7.21	7.66	7.99	8.25	8.41	8.55
90°	6.20	7.32	7.67	8.04	8.45	8.81	9.27
110°	6.33	7.47	8.01	8.40	8.70	9.03	9.71
120°	6.19	7.39	7.98	8.60	9.10	9.51	10.36
135°	5.54	6.91	7.66	8.23	8.92	9.73	11.60
150°	4.67	5.87	6.93	7.61	8.02	8.48	10.15
Run VMG	4.05	5.09	6.00	6.60	6.94	7.41	8.79
Gybe Angles	143.5°	145.7°	149.1°	151.4°	149.2°	176.3°	142.4°

Class Division Length

CDL = 10.175

Storm Sails Areas

Heavy Weather Jib **28.96**
Storm Jib (JL=9.52) **10.73**
Storm Trysail **10.66**

Owner

BOAT							
Name	BAD CAT			Sail Nr	USA 63		
File	US6203			Date in	meters/kilograms		
RIG							
Forestay Tension	Aft			Spreaders		2	
Inner Stay	None Fitted			Runners		0	
Carbon Mast	Yes			Jumper Struts		None	
Taper Hollows	No			Jib Furler		No	
Fiber Rigging	No			Main Furler		No	
Lenticular Rigging	No			Without Backstay		No	
Articulated Bowspit	No						
P	13.777	E	4.420	MDT1	0.111	MW	0.177
IG	14.537	J	4.222	MDL1	0.177	GO	0.208
ISP	15.595	SFJ	0.301	MDT2	0.089	BD	0.135
BAS	1.610	SPL	0.000	MDL2	0.140	MWT	114.40
FSP	0.064	TPS	6.624	TL	0.905	MCG	4.780

INCLINING TEST AND FREEBOARDS					
Inclining Test <u>Current Inclining</u>					
Flotation date		25/03/2017		SG	1.0130
FFM	1.243	FF	1.250	SFFP	1.000
FAM	0.878	FA	0.878	SAFP	10.988
W1	60.5	PD1	477.5	WD	11.365
W2	60.5	PD2	476.3	GSA	1.0
W3	60.5	PD3	477.1	RSA	1.0
W4	60.5	PD4	476.9	PLM	9000.0
LCF from stem on CL / on sheer				6.127 / 6.335	
Maximum beam station from stem				7.279	
RM Measured				113.5kg-m	
RM Default				107.0kg-m	
Limit of positive stability / Stab.Index				123.8° / 124.0	
Freeboard at mast at 4.523				1.079	



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MIZZEN RIG AND SAILS	
	N/A

PROPELLER				
Installation	Strut		PRD	0.413
Type	Folding 2 blades		PBW	0.098
Twin Screw	No		PIPA	0.0032
ST1	0.042	ST3	0.182	ST5 0.182
ST2	0.182	ST4	0.112	EDL 2.265

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COMMENTS	

MOVABLE BALLAST
N/A

BILGEBOARD		
BS	BT	BA
BF	BX	
BC	BY	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.190	1.05	1.85	3.06	3.82	38.06	38.90	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				
	17.68	14.95	16.32	9.31	9.26	126.44		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
0.07	0.67	1.27	2.35	3.38	4.40	14.25	32.75	Y				

MEASUREMENT INVENTORY					
Measurer Date Comment					
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>	
a	Anchor	0-0	0-00		

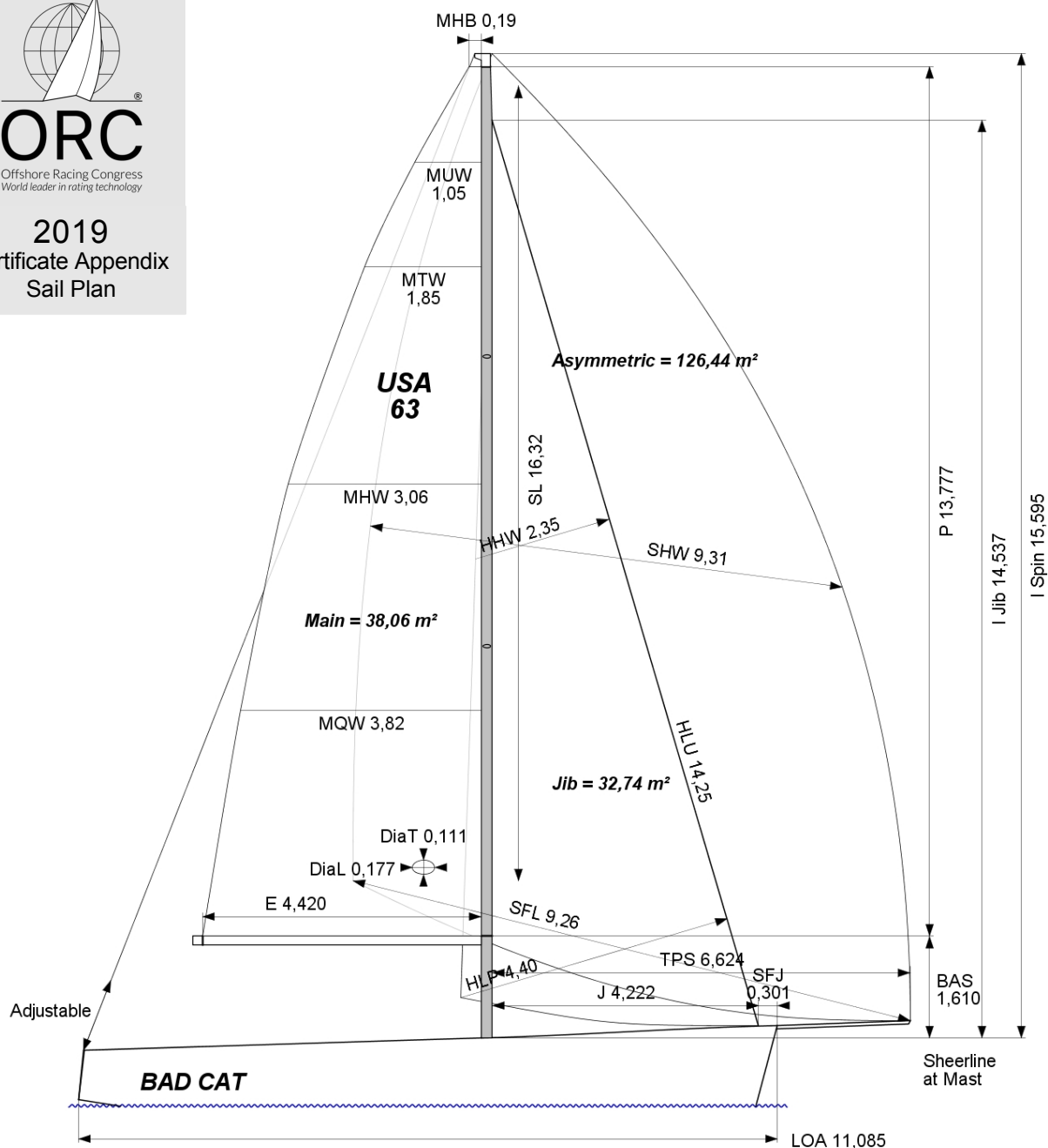
MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
		Tank			0.00	-0.10	40-0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1493357	0.19	1.05	1.85	3.06	3.82	38.06			Ullman		

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1493365	0.07	0.67	1.27	2.35	3.38	4.40	14.25	104%	32.75	Y				Ullman		

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
1493384	17.68	14.95	16.31	9.31	9.26	126.45	asym			Ullman		