

BOAT Name FURIOSA Sail Nr EST 999	GPH 458.5	HULL Length Overall 14.990m Maximum Beam 4.252m Displacement 7,599kg Draft 3.550m IMS Reg. Division Performance Dynamic Allowance 0.003% Fwd Accommodation Yes Hull Construction Carbon Carbon Rudder Yes Crew Arm Extension
GENERAL Class COOKSON 50 mod Designer FARR Builder COOKSON NZ Series 01/2004 Age 04/2007 Age Allowance 0.487% Offset File Camil.off - 5/10/2016 5:39:02 PM Measurement by Boymo/Lindquist - 06/06/2016		IMSL 14.262m VCGD -0.344m Sink 30.52kg/mm RL 14.685m VCGM -0.358m WS 39.85m² LSMO 14.045m Displacement/Length ratio 2.7428



2019
ORC International
Certificate

Rating Office
EYU
Purje 8
11911, Tallinn
Estonia

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	448.2			508.1		
Time on Time	1.3388			1.3285		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	518.3	411.0	354.1	671.5	515.0	437.9
Time on Time	1.3024	1.6422	1.9063	1.0052	1.3107	1.5413

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	735.7	624.0	574.1	551.0	535.1	520.4	513.3
52°	480.9	419.0	399.7	390.0	383.4	372.7	362.1
60°	451.9	404.8	385.7	374.2	366.2	356.1	341.8
75°	432.5	391.0	363.0	346.7	336.5	329.4	307.8
90°	435.5	393.0	360.4	331.7	315.2	304.5	288.9
110°	463.0	395.9	361.8	337.3	318.4	295.0	255.9
120°	479.6	401.2	359.7	328.4	308.2	288.4	253.0
135°	535.7	426.8	385.2	346.8	308.1	274.2	234.3
150°	643.2	505.4	432.4	388.4	359.5	324.9	254.3
Run VMG	742.7	583.6	499.3	451.1	415.1	375.1	293.6

Certificate
Number **EST999**
ORC Ref **EST00000605**
Issued On **5/31/2019**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight
Default **1,117kg**
Maximum **1,200kg**
Minimum* **900kg**
**when applied by the NoR and SI*
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Double H.GPH	472.6	1.2695
Double H.OSN	464.1	1.2929
Non Spin GPH	491.4	1.2210
Non Spin OSN	483.7	1.2405

Selected Courses							
	739.2	603.8	536.7	501.1	475.1	447.7	403.4
Windward / Leeward							
Circular Random	625.1	508.8	446.2	408.2	382.2	361.9	329.8
Coastal / Long Distance	739.6	568.2	483.0	429.8	397.0	364.9	312.6
Non Spinnaker	679.5	549.0	477.6	433.8	404.2	382.4	350.9

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	42.8°	42.0°	39.8°	38.3°	37.1°	36.4°	36.0°
Beat VMG	4.89	5.77	6.27	6.53	6.73	6.92	7.01
52°	7.49	8.59	9.01	9.23	9.39	9.66	9.94
60°	7.97	8.89	9.33	9.62	9.83	10.11	10.53
75°	8.32	9.21	9.92	10.38	10.70	10.93	11.69
90°	8.27	9.16	9.99	10.85	11.42	11.82	12.46
110°	7.77	9.09	9.95	10.67	11.31	12.21	14.07
120°	7.51	8.97	10.01	10.96	11.68	12.48	14.23
135°	6.72	8.43	9.35	10.38	11.68	13.13	15.36
150°	5.60	7.12	8.33	9.27	10.02	11.08	14.16
Run VMG	4.85	6.17	7.21	7.98	8.67	9.60	12.26
Gybe Angles	141.0°	141.0°	148.0°	152.5°	149.5°	146.0°	142.0°

Class Division Length
CDL = **14.475**

Storm Sails Areas

Heavy Weather Jib	56.36
Storm Jib (JL=13.29)	20.88
Storm Trysail	26.45

Owner
Amaco Sail OÜ
Tartu mnt. 84a-44
Tallinn, Estonia
TJK

I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name FURIOSA	Sail Nr EST 999
File Est0999	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 12/06/2012		SG 1.0010	
FFM 1.533	FF 1.544	SFFP 0.861	
FAM 1.159	FA 1.166	SAFP 14.945	
W1 28.1	PD1 41.0	WD 13.132	
W2 63.4	PD2 101.0	GSA 0.4	
W3 105.5	PD3 164.0	RSA 63.6	
W4 128.1	PD4 196.0	PLM 2004.0	
LCF from stem on CL / on sheer		8.299 / 8.548	
Maximum beam station from stem		9.568	
RM Measured		296.0kg·m	
RM Default		226.7kg·m	
Limit of positive stability / Stab.Index		116.1° / 116.3	
Freeboard at mast at 6.199		1.353	



2019
IMS Measurement
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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 Bowsprit No			
P 20.700	E 7.300	MDT1 0.115	MW 0.299
IG 20.432	J 6.170	MDL1 0.299	GO 0.299
ISP 22.730	SFJ 0.029	MDT2 0.110	BD 0.321
BAS 1.930	SPL 0.000	MDL2 0.200	MWT 277.00
FSP 0.072	TPS 8.040	TL 2.150	MCG 7.360

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.457		
Type Folding 2 blades	PBW 0.115		
Twin Screw No	PIPA 0.0039		
ST1 0.048	ST3 0.180	ST5 0.280	
ST2 0.180	ST4 0.112	EDL 2.240	

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COMMENTS	

MOVABLE BALLAST	
Keel Angle 36.0	
List Angle 14.6	
BLR Index 1.0458	

BILGEBOARD		
BS 2.100	BT 0.058	BA
BF 0.000	BX 5.576	
BC 0.431	BY	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.490	2.21	3.16	4.74	6.08	94.79	96.94	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	AS · (SFL + 4·SHW) / 6			
25.20	22.02	23.61	13.13	12.85	257.23				

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
0.15	1.08	1.96	3.44	4.84	6.20	20.82	69.36			06/06/2016	Unknow	
0.15	1.04	1.88	3.45	4.89	6.19	20.85	69.33			06/06/2016	Unknow	
0.11	0.84	1.67	3.31	4.91	6.42	20.61	67.51			09/12/2009	Carbon	Racing 14
	0.85	1.67	3.30	4.89	6.42	20.63	67.48			09/08/2013	Carbon	Racing 14
0.14	1.01	1.87	3.38	4.82	6.21	20.50	67.47			10/07/2014	Carbon	Racing
0.10		1.62	3.19	4.83	6.50	20.16	65.34			30/04/2009	Carbon	Racing
0.16	0.87	1.64	3.09	4.53	5.94	20.45	62.65			01/07/2014	Carbon	Racing
		1.22	2.36	3.61	4.94	18.03	43.94				Kevlar	Staysail
		1.06	2.13	3.25	4.44	17.90	39.15				Kevlar	Staysail

MEASUREMENT INVENTORY				
Measurer Lindquist				
Date 12/06/2012				
Comment				
Id	Item	Weight	Distance	VCG Description
SaS	Tools	74.5	8.13	0.00 Sailor-Services
Id	Item	Weight Description		

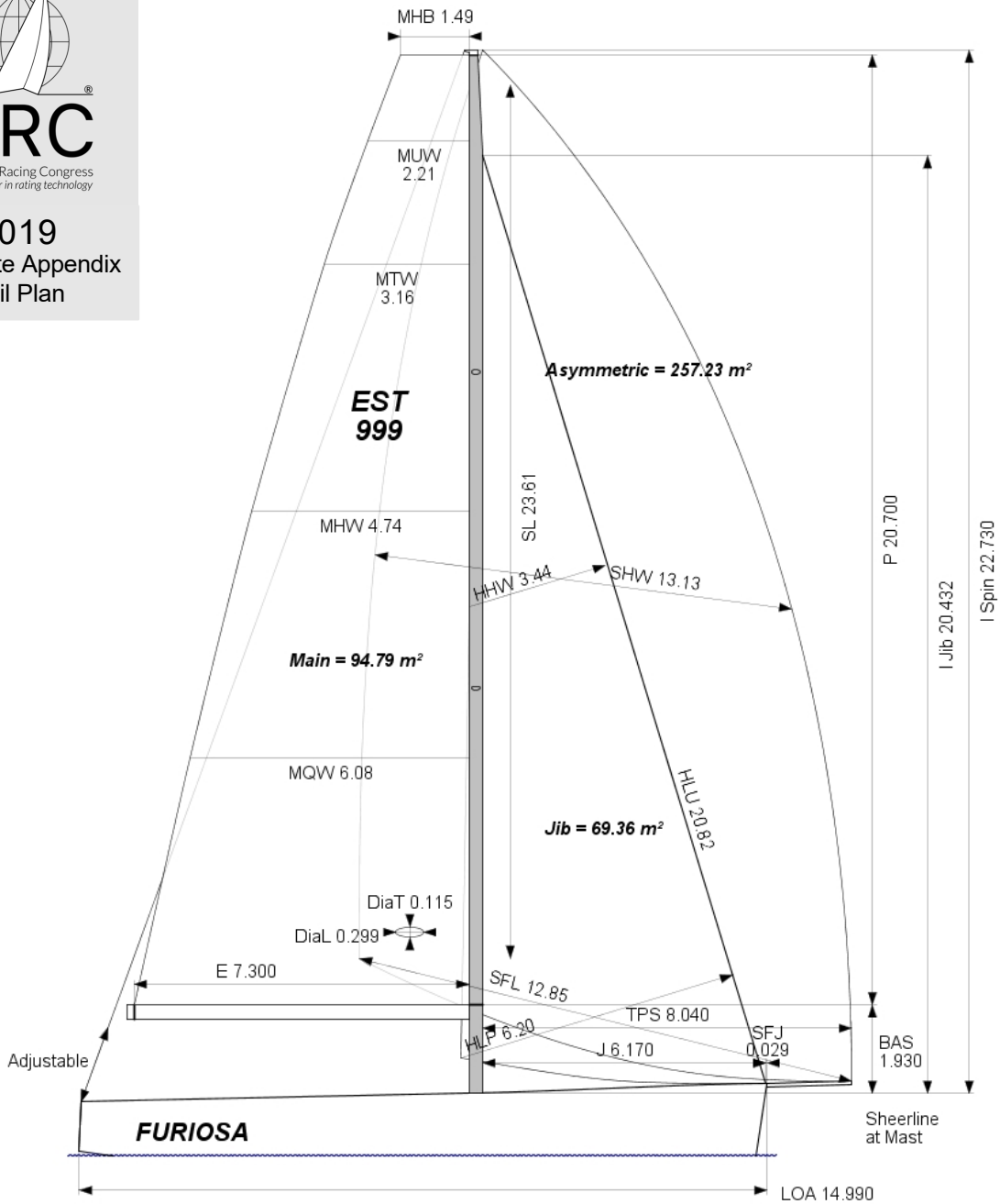
MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M4-16	1.49	2.21	3.16	4.74	6.08	94.80	BG03	30/05/2016		Unknown						
HEADSAILS (9)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
JibTop-	0.15	1.08	1.96	3.44	4.84	6.20	20.82	100%	69.36			BG03	06/06/2016		Carbon	Unknown
Jib1-16	0.15	1.04	1.88	3.45	4.89	6.19	20.85	100%	69.33			BG03	06/06/2016		Carbon	Unknown
J1LM-	0.11	0.84	1.67	3.31	4.91	6.42	20.61	104%	67.51			K.Mille	09/12/2009	North Sails	Carbon	Racing 14
J1L-09		0.85	1.67	3.30	4.89	6.42	20.63	104%	67.48			1192	09/08/2013	North Sails	Carbon	Racing 14
JM MF-	0.14	1.01	1.87	3.38	4.82	6.21	20.50	101%	67.47			160 ITA	10/07/2014	Montefusco	Carbon	Racing
JT NS-	0.10		1.62	3.19	4.83	6.50	20.16	105%	65.34			193 DEN?	30/04/2009	North Sails	Carbon	Racing
JH MF-	0.16	0.87	1.64	3.09	4.53	5.94	20.45	96%	62.65			160 ITA	01/07/2014	Montefusco	Carbon	Racing
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A2-14 MF	25.20	22.02	23.61	13.13	12.85	257.24	asym	160 ITA	10/07/2014	Montefusco	Nylon	Racing				
A4-14 MF	25.27	22.45	23.86	12.78	13.17	255.66	asym	160 ITA	10/07/2014	Montefusco	Nylon	Racing				
A1-14 MF	24.46	22.64	23.55	12.70	13.38	251.91	asym	160 ITA	10/07/2014	Montefusco	Nylon	Racing				
A3-08 NS	24.30	22.40	23.35	11.46	13.55	231.13	asym	206 DEN	24/04/2008	North Sails	Nylon	12-24kn, 125-140°, Racing				
CZ2OS-10	22.92	20.88	21.90	8.18	10.87	159.11	asym	36 ESP	25/06/2010	One Sails	Carbon	New Cable?				