

BOAT		GPH	HULL	
Name PREMIUM		576,6	Length Overall 12,350m	
Sail Nr EST 499			Maximum Beam 3,646m	
GENERAL			Displacement 7 063kg	
			Draft 2,320m	
			IMS Reg. Division Cruiser/Racer	
			Dynamic Allowance 0,006%	
			Fwd Accommodation Yes	
			Hull Construction Cored	
			Carbon Rudder No	
			Crew Arm Extension	
			IMSL 11,137m VCGD -0,158m Sink 23,10kg/mm	
			RL 9,847m VCGM -0,179m WS 32,63m²	
		LSM0 11,021m Displacement/Length ratio 5,2763		



2016
ORC International
Certificate

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11911
Estonia

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	561,0			629,2		
Time On Time	1,0696			1,0727		
Performance Line	0,719	33,4		0,915	208,6	
Triple Number	Low 1,0151	Medium 1,3238	High 1,4980	Low 0,7790	Medium 1,0669	High 1,2403

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	993,5	817,3	716,0	672,9	651,7	639,2	624,3
52°	640,9	533,3	479,9	463,2	455,8	451,7	443,2
60°	599,1	503,6	464,1	448,9	441,8	437,4	428,8
75°	563,9	483,3	452,4	433,3	419,8	412,4	405,4
90°	564,8	483,7	453,1	432,6	412,6	395,2	378,2
110°	591,4	486,7	447,5	422,4	407,9	393,3	371,6
120°	608,6	497,6	453,6	426,2	398,2	379,6	355,0
135°	675,6	543,6	475,3	445,1	419,5	392,9	338,7
150°	800,3	633,2	533,5	475,8	446,9	423,2	374,8
Run VMG	924,1	731,2	616,0	543,5	495,9	460,3	413,6

Certificate
Number EST499
ORC Ref EST00001211
Issued On 4.07.2016
VPP Ver. 2016 1.01
Valid until 31.12.2016

Crew Weight
Declared 880kg
Default* 791kg
Non Manual Pwr No

Special Scoring
ToD ToT
Double H.GPH 581,1 1,0326
Double H.OSN 566,3 1,0595
Non Spin GPH 606,2 0,9898
Non Spin OSN 590,6 1,0159
N/S Perf. Line 3,3 0,633

Selected Courses							
Windward / Leeward	958,8	774,3	666,0	608,2	573,8	549,8	518,9
Circular Random	797,9	642,6	559,2	510,6	480,2	459,6	431,9
Ocean for PCS	981,8	756,1	628,6	550,7	499,7	463,9	413,4
Non Spinnaker	850,5	680,2	587,2	532,2	497,6	474,4	444,0

Sails Limitations	
Headsails 7	Spinnakers 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	44,3°	43,2°	42,3°	40,4°	39,8°	39,2°	38,8°
Beat VMG	3,62	4,40	5,03	5,35	5,52	5,63	5,77
52°	5,62	6,75	7,50	7,77	7,90	7,97	8,12
60°	6,01	7,15	7,76	8,02	8,15	8,23	8,40
75°	6,38	7,45	7,96	8,31	8,58	8,73	8,88
90°	6,37	7,44	7,95	8,32	8,73	9,11	9,52
110°	6,09	7,40	8,04	8,52	8,83	9,15	9,69
120°	5,92	7,24	7,94	8,45	9,04	9,48	10,14
135°	5,33	6,62	7,57	8,09	8,58	9,16	10,63
150°	4,50	5,69	6,75	7,57	8,06	8,51	9,60
Run VMG	3,90	4,92	5,84	6,62	7,26	7,82	8,70
Gybe Angles	142,2°	147,5°	150,0°	155,5°	169,2°	180,0°	180,0°

Class Division Length
CDL = 10,493

Storm Sails Areas
Heavy Weather Jib 39,50
Storm Jib (JL=11,12) 14,63
Storm Trysail 15,20

BOAT			
Name	PREMIUM	Sail Nr	EST 499
File	Est0499.dxt	Data 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 Bowsprit	No				
P	15,850	E	5,480	MDT1	0,130
IG	17,040	J	5,200	MDL1	0,255
ISP	18,165	SFJ		MDT2	0,122
BAS	1,870	SPL	5,200	MDL2	0,190
FSP	0,076	TPS		TL	0,600
				MWT	200,10
				MCG	5,880
				GO	0,275
				BD	0,270

MIZZEN RIG AND SAILS	
	N/A

COMMENTS	

INCLINING TEST AND FREEBOARDS				
Inclining Test Boom Inclining				
Flotation date		29.06.2016	SG	1,0000
FFM	1,434	FF	1,445	SFFP 0,200
FAM	1,084	FA	1,091	SAFP 11,995
W1	79,000	PD1	76,0	WD 5,480
W2	79,000	PD2	74,0	GSA 12,6
W3	79,000	PD3	76,0	RSA 4298,7
W4	79,000	PD4	74,0	PLM 2005,0
LCF from stem on CL / on sheer				6,925 / 7,137
Maximum beam station from stem				8,432
RM Measured				202,0kg·m
RM Default				206,2kg·m
Limit of positive stability / Stab.Index				128,2° / 132,1
Freeboard at mast at 5,200				1,208

PROPELLER			
Installation	Strut	PRD	0,430
Type	Folding 2 blades	PBW	0,125
Twin Screw	No	PIPA	0,0032
ST1	0,060	ST3	ST5 0,325
ST2	ST4 0,092	EDL	1,540

MOVEABLE BALLAST
N/A

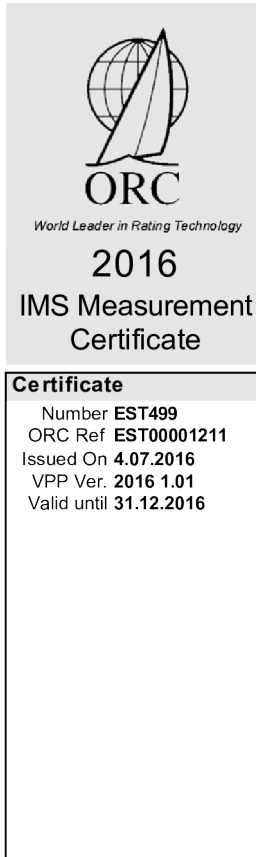
CENTERBOARD	
	N/A

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,210	1,34	2,19	3,61	4,62	52,84	54,05	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17,95	17,95	17,95	8,77	8,54	130,50		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

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
0,12	0,84	1,57	2,97	4,29	5,54	17,07	49,51			28.06.2016	Carbon	Jib 1
0,16	0,90	1,63	3,00	4,35	5,63	16,54	48,86			28.06.2016	Carbon	Jib Top
0,12	0,76	1,45	2,83	4,18	5,47	17,09	47,91			28.06.2016	Carbon	Jib 2
0,10	0,53	1,06	2,21	3,44	4,85	16,25	37,44	N	N	19.06.2015	Unknow	
0,07					4,28	14,88	32,32	N	N	19.06.2015	Unknow	

MEASUREMENT INVENTORY					
Measurer Arvet Tetsmann EST 1 Date 29.06.2016 Comment					
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>			<i>Model</i>
1	Engine	Volv o.Penta			40 HP
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>		

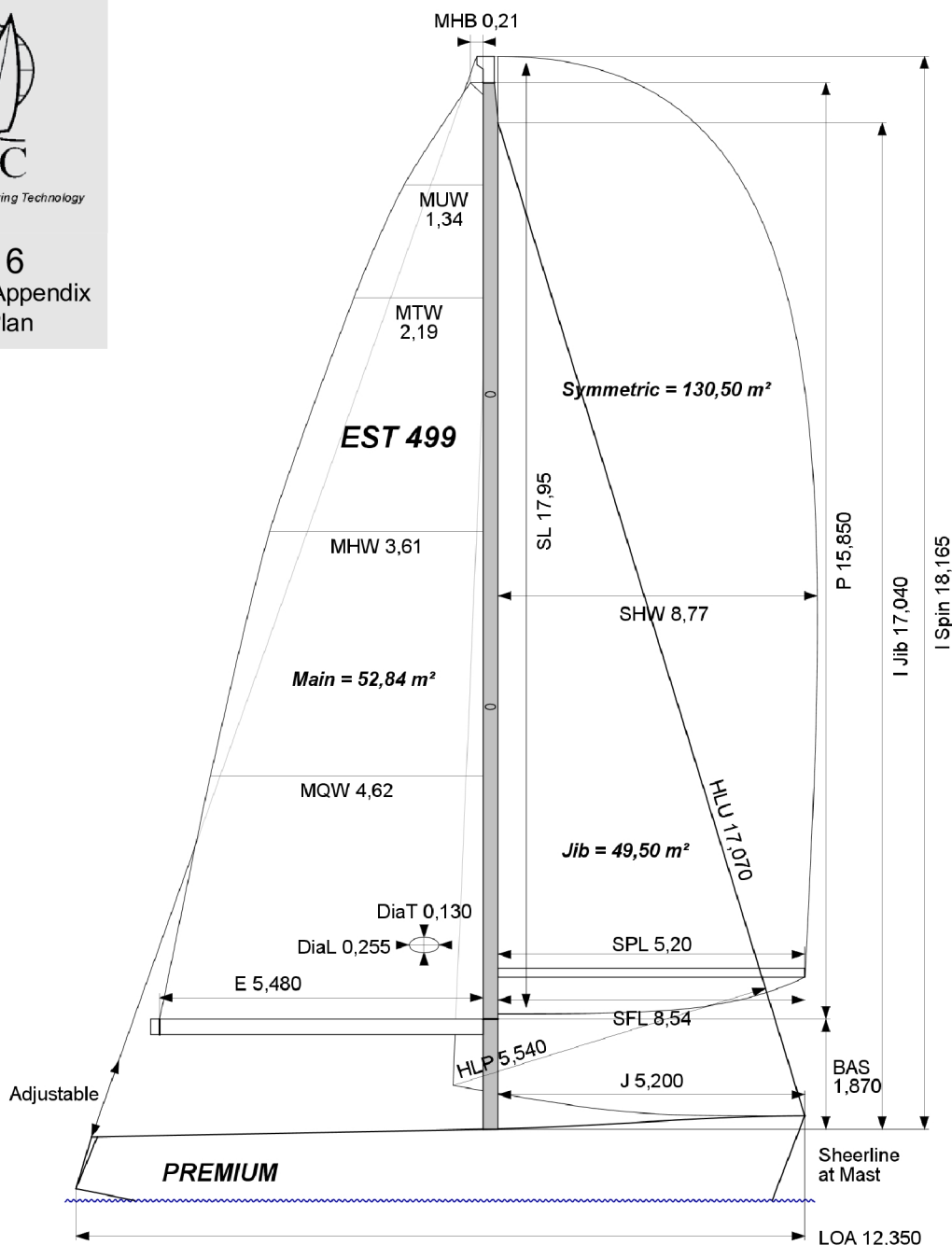
MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condn</i>	<i>Description</i>
1	Tank	Fuel	plastic	90,0	5,90		18,0	Fuel tank
2	Tank	Water	plastic	180,0	5,75		0,0	Water tank
3	Tank	Holding	plastic	30,0	4,40		0,0	Holding tank
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>			
1	Battery		4,90		1 service battery 115 Ah, stb.			
2	Battery		7,70		1 engine battery 55 Ah			
Re	Misc				Saloon backboards/plates removed			





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2016 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
7	0,210	1,34	2,19	3,61	4,62	52,84	I 73	28.06.2016	OneSails	Carbon	P15,85;E5,48

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
I	0,12	0,84	1,57	2,97	4,29	5,54	17,07	107%	49,51			SLO 3	28.06.2016	OneSails	Carbon	Jib 1
K	0,16	0,90	1,63	3,00	4,35	5,63	16,54	108%	48,86			SLO 3	28.06.2016	OneSails	Carbon	Jib Top
J	0,12	0,76	1,45	2,83	4,18	5,47	17,09	105%	47,91			SLO 3	28.06.2016	Onesails	Carbon	Jib 2
E	0,10	0,53	1,06	2,21	3,44	4,85	16,25	93%	37,44	N	N	MAMONE	19.06.2015		Unknown	
C	0,07					4,28	14,88	82%	32,32	N	N	CRO7	19.06.2015		Unknown	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
E	17,95	17,95	17,95	8,77	8,54	130,50	Gale, SLO 3	28.07.2014	OneSails	Nylon	S1,5
D	17,90	17,90	17,90	8,82	8,30	130,01			OneSails	Unknown	
A	17,00	17,00	17,00	8,37	8,35	118,52	CRO7	19.06.2015		Unknown	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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