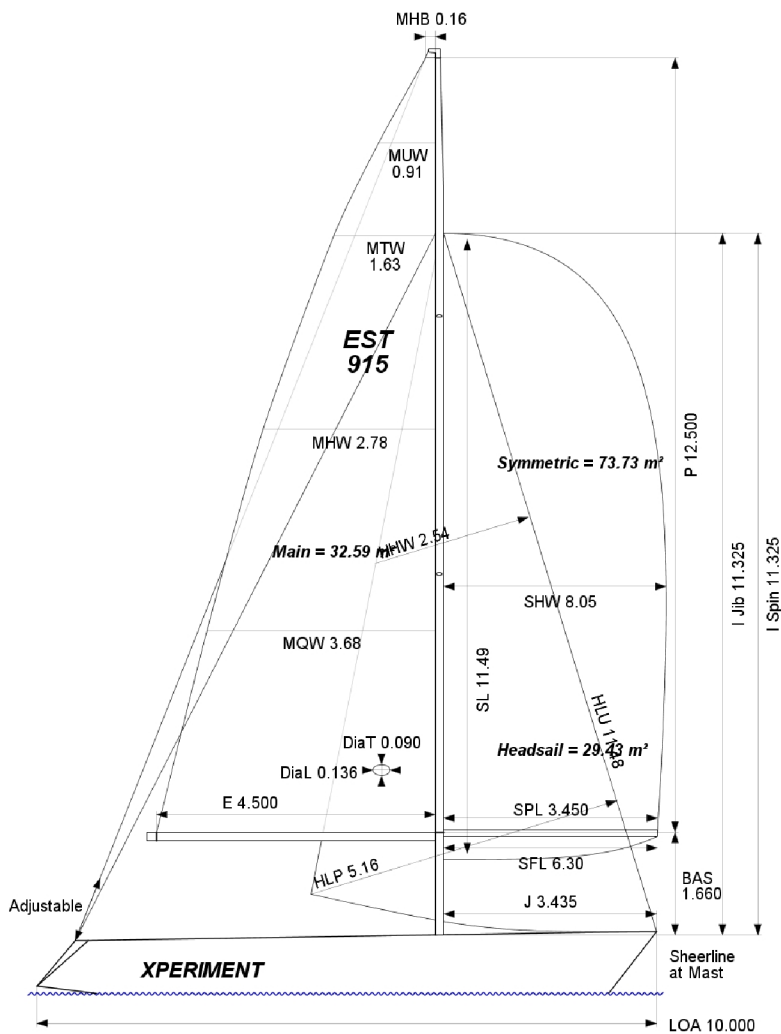




BOAT		GPH	HULL	
Name	Xperiment	619.2	Data File	EST915
Sail Nr	EST915		Offset File	x99.OD.off
CLASS			Displacement	2,982kg
Class	X-99		IMS Division	Cruiser/Racer
Designer	NIELS JEPPESEN		Dynamic All.	0.000%
Builder	X-YACHTS		Plan Review	Construction
Series	04/1985		Fiber Rigging	No
Age Date	01/1990		Crew Arm Ex	No
Age Allowance	0.487%		Aramid Core	No
COMMENTS			Carbon Rudder	No
PROPELLER			Light Stanchions	No
Installation	Strut	PRD 0.356	IMSL	8.673m
Type	Folding 2 blades	PBW 0.090	VCGD	-0.060m
		PIPA 0.0035	Sink	13.62kg/mm
CENTERBOARD			RL	8.679m
			VCGM	-0.008m
			WS	18.38m²
			LSM0	8.422m
			Displacement/Length ratio	4.9919
			Water Ballast	Trim Tab No
			BLR Index	0.0000

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	603.4			673.9		
Time on Time	0.9944			1.0017		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	699.3	551.8	492.8	905.4	674.9	594.6
Time on Time	0.9653	1.2232	1.3697	0.7455	1.0002	1.1352



Rating Office
Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia



Certificate
 Number **082/20**
 Issued On **30/06/2020**
 ORC Ref **03880000LMQ**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight
 Default **539kg**
 Maximum **650kg**
 Minimum* **488kg**
 *when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **646.3 0.9284**
 Non Spin OSN **629.4 0.9533**

Sails Limitations
 Headsails **5** Spinnakers **4**

Spinnaker configuration
 Symmetric: **Yes 73.73**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
 CDL = **8.671**

Stability (Measured)
 Limit Positive Stab.: **114.0°**
 Stability Index: **111.8**

BOAT										INCLINING TEST AND FREEBOARDS									
Name Xperiment					Sail Nr EST915					Inclining Test Current Inclining									
File EST915					Data in meters/kilograms					Flotation date 29/07/2015 SG 1.0250									
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 1 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										FFM 0.997 FF 0.997 SFFP 0.303 FAM 0.802 FA 0.802 SAFP 9.175 W1 41.0 PD1 222.0 WD 9.370 W2 41.0 PD2 220.0 GSA 12.6 W3 41.0 PD3 223.0 RSA 4298.7 W4 41.0 PD4 220.0 PLM 2005.0 LCF from stem on CL / on sheer 5.445 / 5.615 Maximum beam station from stem 6.027 RM Measured 60.7kg·m RM Default 66.3kg·m Limit of positive stability / Stab.Index 114.0° / 111.8 Freeboard at mast at 3.435 0.946									
MIZZEN RIG AND SAILS N/A										PROPELLER Installation Strut PRD 0.356 Type Folding 2 blades PBW 0.090 Twin Screw No PIPA 0.0035 ST1 0.065 ST3 0.180 ST5 0.256 ST2 0.180 ST4 0.110 EDL 1.075									
COMMENTS 										MOVABLE BALLAST N/A									
										CENTERBOARD N/A									
SAILS INVENTORY										Certificate Number 082/20 ORC Ref 03880000LMQ Issued On 30/06/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020									
MAINSAIL (1)										 ESTONIAN YACHTING UNION									
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	0.16	0.91	1.63	2.78	3.68	32.59				Unknown									
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
2	0.07	0.65	1.27	2.54	3.83	5.16	11.48	150%	29.43		No				Unknown				
1	0.05	0.64	1.24	2.52	3.80	5.10	11.20	148%	28.39		No				Unknown				
3	0.09	0.42	0.81	1.60	2.41	3.25	11.45	95%	18.55	Y	No				Unknown				
SYMMETRIC SPINNAKERS (2)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	11.18	11.80	11.49	8.05	6.30	73.73				Unknown									
2	11.10	11.10	11.10	7.98	6.20	70.53				Unknown									
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							

2020

ORC Club Certificate Appendix

BOAT			
Name	Xperiment	Certificate Number	082/20
Sail Nr	EST915	Issued On	30/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	991.5	820.1	742.4	716.8	705.4	702.0	696.1
52°	651.2	557.2	526.4	515.6	510.1	507.0	501.8
60°	615.7	541.3	514.7	501.6	494.6	490.5	485.1
75°	591.3	530.5	503.8	483.3	469.3	461.4	454.4
90°	600.4	530.6	502.2	477.8	455.1	437.9	421.2
110°	622.4	528.9	491.7	459.5	435.8	419.8	392.8
120°	643.7	538.3	498.0	463.0	430.1	401.6	366.4
135°	722.6	583.8	521.0	487.7	454.0	421.6	352.4
150°	875.3	692.3	578.7	520.5	489.5	458.5	398.0
Run VMG	1010.7	799.4	668.2	587.0	534.7	501.9	444.6
Selected Courses							
Windward / Leeward	1001.1	809.7	705.3	651.9	620.1	601.9	570.3
Circular Random	843.7	685.3	601.5	553.1	522.9	502.1	472.3
Coastal / Long Distance	1002.1	762.9	640.4	573.6	535.4	503.5	451.0
Non Spinnaker	890.5	718.8	627.1	573.7	540.4	517.7	486.7

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	42.4°	41.3°	38.6°	37.5°	37.1°	37.1°	37.1°
Beat VMG	3.63	4.39	4.85	5.02	5.10	5.13	5.17
52°	5.53	6.46	6.84	6.98	7.06	7.10	7.17
60°	5.85	6.65	6.99	7.18	7.28	7.34	7.42
75°	6.09	6.79	7.15	7.45	7.67	7.80	7.92
90°	6.00	6.79	7.17	7.53	7.91	8.22	8.55
110°	5.78	6.81	7.32	7.84	8.26	8.58	9.17
120°	5.59	6.69	7.23	7.77	8.37	8.96	9.82
135°	4.98	6.17	6.91	7.38	7.93	8.54	10.22
150°	4.11	5.20	6.22	6.92	7.35	7.85	9.05
Run VMG	3.56	4.50	5.39	6.13	6.73	7.17	8.10
Gybe Angles	144.0°	149.0°	149.5°	158.5°	180.0°	180.0°	180.0°