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BOAT										INCLINING TEST AND FREEBOARDS										
Name TUULE					Sail Nr EST 408					Inclining Test Current Inclining										
File EST408					Data in meters/kilograms					Flotation date 26/05/2006 SG 1.0020										
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										FFM 1.585 FF 1.601 SFFP 0.322 FAM 1.080 FA 1.092 SAFF 12.761 W1 125.0 PD1 210.0 WD 11.190 W2 125.0 PD2 208.0 GSA 12.6 W3 125.0 PD3 210.0 RSA 4298.7 W4 125.0 PD4 209.0 PLM 2005.0										
P 17.202 E 6.150 MDT1 0.140 MW 0.255 IG 17.510 J 4.770 MDL1 0.255 GO 0.288 ISP 19.100 SFJ 0.000 MDT2 0.130 BD BAS 1.800 SPL 5.200 MDL2 0.200 MWT 347.00 FSD 0.025 TPS 5.470 TL 1.200 MCG 6.300										LCF from stem on CL / on sheer 7.570 / 7.813 Maximum beam station from stem 8.675 RM Measured 233.9kg·m RM Default 271.9kg·m Limit of positive stability / Stab.Index 107.5° / 113.7 Freeboard at mast at 4.770 1.363										
MISSZEN RIG AND SAILS N/A										PROPELLER Installation Strut PRD 0.446 Type Folding 3 blades PBW Twin Screw No PIPA 0.0032 ST1 0.047 ST3 ST5 0.275 ST2 ST4 0.098 EDL 2.630										
COMMENTS 										MOVABLE BALLAST N/A										
										CENTERBOARD N/A										
SAILS INVENTORY										Certificate Number 083/20 ORC Ref 03880000LN4 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									
3	0.20	1.14	2.10	3.73	4.99	60.17	SLO03	06/05/2020	One Sails	Unknown	2020									
HEADSAILS (4)																				
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment				
1	0.09	0.81	1.59	3.24	4.95	6.69	17.06	140%	56.21	No	No	SLO03	06/05/2020	OneSails	Unknown	Unknow				
9	0.12	0.83	1.47	2.51	3.67	4.81	17.09	101%	43.08	No	No		10/06/2019	OneSails	Unknown	Unknow				
8	0.12	0.75	1.36	2.45	3.65	4.79	16.93	100%	41.85	No	No		15/05/2018		Unknown	Unknow				
7	0.09	0.67	1.27	2.45	3.63	4.77	16.32	100%	39.79	No	No		15/05/2018		Unknown	Unknow				
SYMMETRIC SPINNAKERS (4)																				
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment									
8	18.28	18.28	18.28	9.55	9.68	145.88		10/06/2019	OneSails	Unknown										
5	17.14	17.14	17.14	9.06	8.22	127.01		15/05/2018		Unknown										
7	17.13	17.13	17.13	8.93	8.33	125.77		15/05/2018		Unknown										
6	17.18	17.18	17.18	8.85	8.37	125.33		15/05/2018		Unknown										
ASYMMETRIC SPINNAKERS (1)																				
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment								
2	20.47	18.10	19.29	10.06	9.47	159.78	asym		10/06/2019	OneSails	Unknown									

2020

ORC Club Certificate Appendix

BOAT			
Name	TUULE	Certificate Number	083/20
Sail Nr	EST 408	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	938.3	777.5	693.7	660.8	647.2	641.1	633.0
52°	616.6	520.2	475.7	460.9	455.2	452.5	449.0
60°	583.8	498.2	462.3	448.5	443.1	440.2	437.8
75°	558.5	483.4	452.8	437.4	427.8	422.7	417.9
90°	562.3	482.8	451.2	433.6	419.8	408.2	394.1
110°	570.1	475.8	440.1	420.9	409.0	399.3	381.3
120°	585.0	484.8	444.6	422.0	401.3	384.9	364.6
135°	652.9	529.6	465.5	437.2	416.0	394.2	353.1
150°	775.2	620.4	525.9	471.0	441.5	421.4	381.5
Run VMG	895.1	716.3	607.3	538.4	491.7	455.3	414.0
Selected Courses							
Windward / Leeward	916.7	746.9	650.5	599.6	569.5	548.2	523.5
Circular Random	774.9	628.1	550.5	506.4	479.9	462.6	440.6
Coastal / Long Distance	914.5	701.8	586.9	523.6	489.8	463.2	422.3
Non Spinnaker	832.2	668.5	580.2	528.8	497.3	476.8	450.8

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°	41.3°	40.5°	39.4°	38.8°	38.6°	38.6°
Beat VMG	3.84	4.63	5.19	5.45	5.56	5.62	5.69
52°	5.84	6.92	7.57	7.81	7.91	7.96	8.02
60°	6.17	7.23	7.79	8.03	8.12	8.18	8.22
75°	6.45	7.45	7.95	8.23	8.41	8.52	8.61
90°	6.40	7.46	7.98	8.30	8.58	8.82	9.13
110°	6.31	7.57	8.18	8.55	8.80	9.02	9.44
120°	6.15	7.43	8.10	8.53	8.97	9.35	9.87
135°	5.51	6.80	7.73	8.23	8.65	9.13	10.20
150°	4.64	5.80	6.84	7.64	8.15	8.54	9.44
Run VMG	4.02	5.03	5.93	6.69	7.32	7.91	8.70
Gybe Angles	143.0°	147.0°	148.0°	155.0°	166.0°	180.0°	180.0°