



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **139/20**
Issued On **04/08/2020**
ORC Ref **03880000NWA**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 628kg
Maximum **692kg**
Minimum* **519kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **650.5 0.9224**
Non Spin OSN **631.1 0.9507**

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration

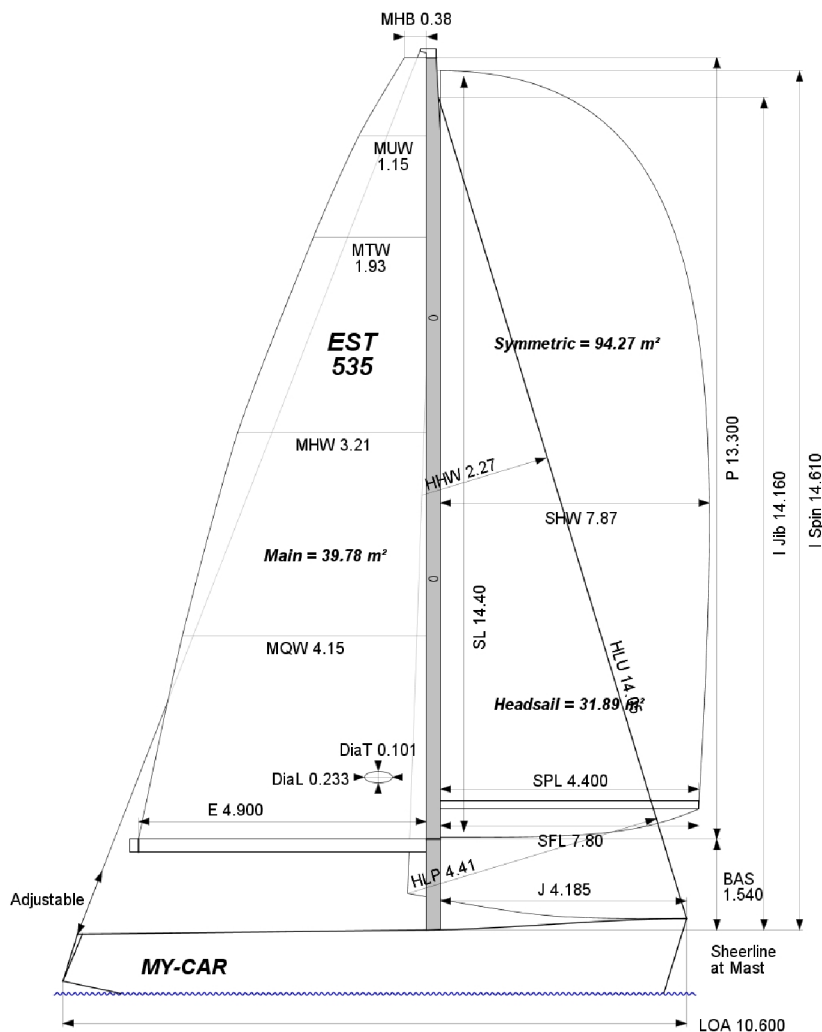
Symmetric: **Yes 94.27**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.128

Stability (Estimated)

Limit Positive Stab.: **129.5°**
Stability Index: **130.9**



BOAT			GPH			HULL			
Name MY-CAR Sail Nr EST 535			616.2			Data File	EST535	LOA	10.600m
						Offset File	X35mk2DEFmkR	MB	3.250m
						Displacement	4,703kg	Draft	2.006m
						IMS Division	Cruiser/Racer	Dynamic All.	0.094%
CLASS						Plan Review		Construction	Cored
Class						Fiber Rigging	Yes	Aramid Core	No
Designer						Crew Arm Ex		Carbon Rudder	No
Builder								Light Stanchions	No
Series						IMSL	9.494m	VCGD	-0.180m
Age Date						Sink	17.50kg/mm		
Age Allowance						RL	8.771m	VCGM	-0.197m
						WS	24.73m		
						LSM0	9.374m	Displacement/Length ratio	5.7095
COMMENTS						Water Ballast			
Boat weight declared						Trim Tab No			
						BLR Index 0.0000			
PROPELLER						CENTERBOARD			
Installation			Strut			N/A			
Type			Folding 2 blades						
			PRD	0.420					
			PBW	0.128					
			PIPA	0.0033					
SCORING OPTIONS									
			COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance			598.5			668.2			
Time on Time			1.0025			1.0102			
Triple Number			Low	Medium	High	Low	Medium	High	
Time on Distance			706.1	545.7	486.0	911.8	669.5	583.7	
Time on Time			0.9560	1.2370	1.3889	0.7403	1.0082	1.1565	

BOAT			
Name	MY-CAR	Sail Nr	EST 535
File	EST535	Data in	meters/kilograms

RIG									
Forestay Tension	Aft				Spreaders	2			
Inner Stay	None Fitted				Runners/Checkstays	0			
Carbon Mast	Yes				Jib Furler	No			
Fiber Rigging	Yes				Main Furler	No			
Non-Circular Rigging	No								
Articulated Bowsprit	No								
P	13.300	E	4.900	MDT1	0.101	MW	0.225		
IG	14.160	J	4.185	MDL1	0.233	GO	0.242		
ISP	14.610	SFJ		MDT2	0.076	BD	0.220		
BAS	1.540	SPL	4.400	MDL2	0.160	MWT	94.00		
FSD	0.034	TPS		TL	1.250	MCG	5.100		

INCLINING TEST AND FREEBOARDS				
Inclining Test Enter VCG directly				
Flotation date 23/09/2019		SG 1.0230		
VCGDe -0.180				
FFM 1.273	FF 1.274	SFFP	0.075	
FAM 1.008	FA 1.008	SAFP	10.275	
LCF from stem on CL / on sheer			5.881 / 6.082	
Maximum beam station from stem			7.300	
RM Measured			127.7kg·m	
RM Default			121.0kg·m	
Limit of positive stability / Stab.Index			129.5° / 130.9	
Freeboard at mast at 4.185			1.088	

MIZZEN RIG AND SAILS	
	N/A

PROPELLER					
Installation	Strut		PRD		0.420
Type	Folding 2 blades		PBW		0.128
Twin Screw	No		PIPA		0.0033
ST1	0.042	ST3	0.182	ST5	0.255
ST2	0.178	ST4	0.112	EDL	1.740

COMMENTS	
Boat weight declared	

MOVABLE BALLAST	
	N/A

CENTERBOARD

N/A



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2020
Measurements
Datasheet

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SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
9a	0.38	1.15	1.93	3.21	4.15	39.66	EST8	04/08/2020	OneSails	Unknown	P13,30; E 4,90					
7a	0.43	1.10	1.81	3.03	4.01	38.26		09/06/2018	OneSails	Unknown	P13,30; E 4,88					
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	OvrIp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
10a	0.22	0.69	1.23	2.27	3.31	4.41	14.05	105%	31.89		No		09/06/2018	OneSails	Unknow	Code 1
8a	0.10	0.65	1.23	2.32	3.33	4.20	14.10	100%	31.59		No		17/05/2016	OneSails	Unknow	JibTop
14a	0.09	0.61	1.18	2.23	3.27	4.38	14.20	105%	31.56		No		31/07/2019		Unknow	JIB 2-2019
12	0.14	0.58	1.09	2.15	3.26	4.42	13.36	106%	29.30		No		08/06/2017	OneSails	Unknow	Code 3
13	0.10	0.55	0.99	1.82	2.61	3.32	12.42	79%	22.00		Inner		25/04/2017	OneSails	Unknow	Stay Sail
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
11a	14.40	14.40	14.40	7.87	7.80	94.28		02/06/2020	One Sail	Unknown	S 2					
10a	14.38	14.38	14.38	7.80	8.00	93.95		02/06/2020	One Sail	Unknown	S 1					
8	14.05	14.05	14.05	6.54	6.76	77.09		25/04/2017		Unknown	Reacher					
3	13.95	13.95	13.95	6.25	6.80	73.94		09/09/2013		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	MY-CAR	Certificate Number	139/20
Sail Nr	EST 535	Issued On	04/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1046.8	860.9	755.3	713.0	696.9	690.4	678.1
52°	682.4	572.0	520.3	501.4	494.7	491.4	484.9
60°	642.7	546.9	507.0	489.0	480.9	476.6	470.8
75°	613.0	530.0	497.3	477.0	461.5	452.1	444.5
90°	621.0	530.1	492.1	474.8	454.8	436.4	413.6
110°	624.5	521.2	482.2	454.6	434.4	420.8	397.6
120°	641.9	530.3	487.2	457.3	428.6	404.2	376.3
135°	709.1	573.4	508.4	476.9	448.4	420.8	364.0
150°	839.7	666.8	563.4	507.4	478.1	451.8	401.3
Run VMG	969.6	770.0	649.9	575.5	524.0	490.3	440.2
Selected Courses							
Windward / Leeward	1008.2	815.4	702.6	644.2	610.5	590.4	559.1
Circular Random	848.3	685.0	597.8	547.4	516.3	495.4	466.6
Coastal / Long Distance	1004.3	766.0	635.7	565.8	527.4	496.5	446.4
Non Spinnaker	909.9	728.5	630.1	572.5	536.8	513.0	481.3

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°	41.6°	40.5°	39.0°	38.6°	38.6°	38.4°
Beat VMG	3.44	4.18	4.77	5.05	5.17	5.21	5.31
52°	5.28	6.29	6.92	7.18	7.28	7.33	7.42
60°	5.60	6.58	7.10	7.36	7.49	7.55	7.65
75°	5.87	6.79	7.24	7.55	7.80	7.96	8.10
90°	5.80	6.79	7.32	7.58	7.92	8.25	8.70
110°	5.76	6.91	7.47	7.92	8.29	8.55	9.05
120°	5.61	6.79	7.39	7.87	8.40	8.91	9.57
135°	5.08	6.28	7.08	7.55	8.03	8.55	9.89
150°	4.29	5.40	6.39	7.10	7.53	7.97	8.97
Run VMG	3.71	4.68	5.54	6.26	6.87	7.34	8.18
Gybe Angles	145.0°	148.5°	151.0°	158.0°	180.0°	180.0°	180.0°