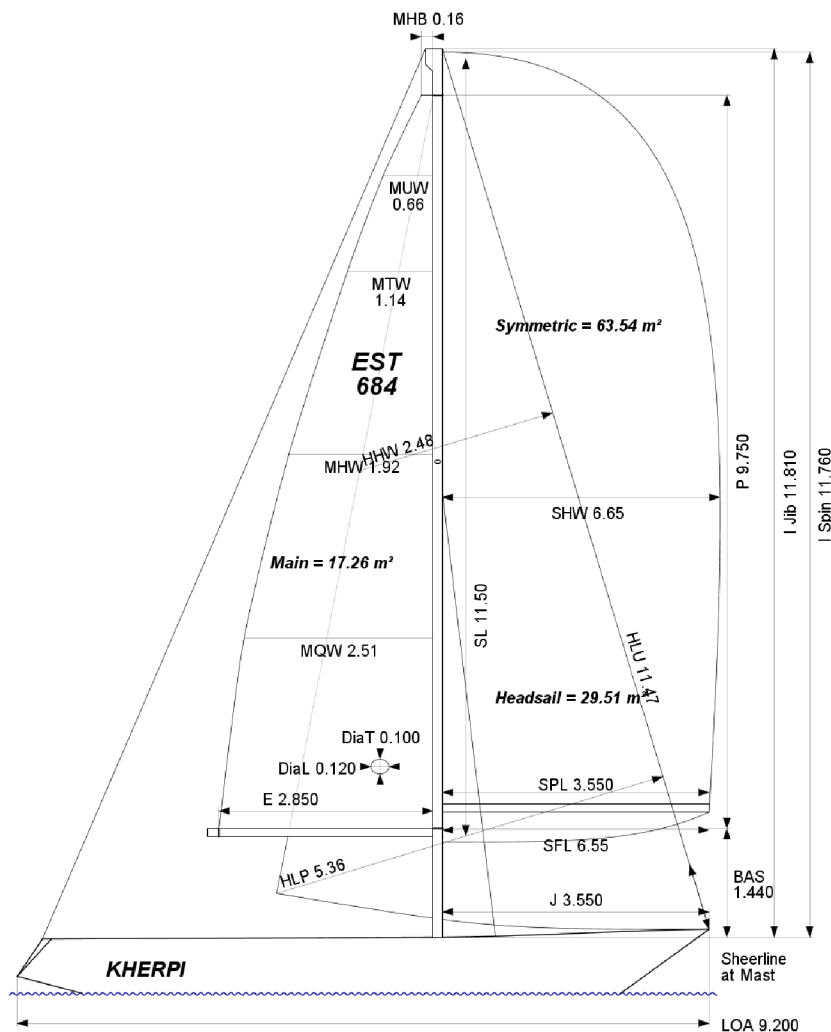




BOAT		GPH		HULL			
Name	KHERPI	718.6		Data File	EST684	LOA	9.200m
Sail Nr	EST684			Offset File	nardus92.off	MB	2.960m
				Displacement	3,365kg	Draft	1.435m
CLASS							
Class	NARDUS92			IMS Division	Cruiser/Racer	Dynamic All.	0.403%
Designer				Plan Review		Construction	Solid
Builder	Johansson			Fiber Rigging	No	Aramid Core	No
Series	01/1972			Crew Arm Ex		Carbon Rudder	No
Age Date	01/1980					Light Stanchions	No
Age Allowance	0.487%			IMSL	7.202m	VCGD	0.000m Sink 11.96kg/mm
				RL	6.240m	VCGM	0.065m WS 16.84m
COMMENTS							
3365							
PROPELLER							
Installation	Strut	PRD	0.357				
Type	Folding 2 blades	PIPA	0.0005				
CENTERBOARD							
N/A							

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	699.4			778.0		
Time on Time	0.8579			0.8677		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	818.7	638.3	571.7	1051.7	782.3	680.9
Time on Time	0.8245	1.0575	1.1806	0.6418	0.8628	0.9914



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



Certificate
 Number 052/20
 Issued On 06/06/2020
 ORC Ref 03880000K1T
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 421kg
 Maximum 450kg
 Minimum* 338kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 752.4 0.7974
 Non Spin OSN 730.1 0.8218

Sails Limitations
 Headsails 5 Spinnakers 4
 Woven Polyester

Spinnaker configuration
 Symmetric: Yes 63.54
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 6.719

Stability (Estimated)
 Limit Positive Stab.: 105.0°
 Stability Index: 104.4

BOAT Name KHERPI Sail Nr EST684 File EST684 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 06/06/2020 SG 1.0247 VCGDe 0.000	
RIG Forestay Tension Forward Spreaders 1 Inner Stay Fixed Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 0.837 FF 0.837 SFFP 1.050 FAM 0.723 FA 0.723 SAFF 8.747 LCF from stem on CL / on sheer 4.987 / 5.191 Maximum beam station from stem 5.364 RM Measured 54.1kg·m RM Default 53.5kg·m Limit of positive stability / Stab.Index 105.0° / 104.4 Freeboard at mast at 3.550 0.754	
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.357 Type Folding 2 blades PBW Twin Screw PIPA 0.0005 ST1 ST3 ST5 ST2 ST4 EDL	
COMMENTS 3365		MOVABLE BALLAST N/A	
		CENTERBOARD N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.16	0.66	1.14	1.92	2.51	17.26										
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.63	1.21	2.48	3.84	5.36	11.47	151%	29.51		No					
2	0.05	0.54	1.03	2.13	3.35	4.66	11.10	131%	24.73		No					
3	0.06	0.36	0.69	1.43	2.30	3.29	10.60	93%	16.27		No					
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.50	11.50	11.50	6.65	6.55	63.54										
2	11.50	11.50	11.50	5.90	5.85	56.45										
2	9.95	9.95	9.95	5.05	6.60	44.45										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


ORC
Offshore Racing Congress
World leader in rating technology
2020
Measurements
Datasheet

Certificate
 Number **052/20**
 ORC Ref **03880000K1T**
 Issued On **06/06/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**


EJL
ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT			
Name	KHERPI	Certificate Number	052/20
Sail Nr	EST684	Issued On	06/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1214.7	1031.5	913.0	845.3	818.9	806.0	804.7
52°	793.7	674.3	612.9	585.5	571.8	565.7	562.6
60°	748.8	639.2	593.6	571.4	557.4	549.0	544.0
75°	719.1	618.0	579.7	558.9	542.5	528.8	513.8
90°	726.8	620.4	571.0	548.3	537.6	521.0	494.7
110°	725.0	605.0	561.0	533.6	509.9	492.5	475.8
120°	745.2	615.9	565.7	537.1	510.7	488.2	458.4
135°	813.2	665.0	587.4	554.0	527.7	502.4	461.4
150°	941.0	757.0	645.0	583.4	553.7	529.5	485.0
Run VMG	1086.5	874.0	742.5	656.4	595.5	562.2	515.4
Selected Courses							
Windward / Leeward	1150.6	952.7	827.7	750.9	707.2	684.1	660.1
Circular Random	982.8	797.0	697.7	640.1	604.9	582.5	555.7
Coastal / Long Distance	1144.2	893.8	747.0	660.7	616.3	582.4	530.1
Non Spinnaker	1042.9	839.8	729.7	665.0	625.2	599.6	569.1

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	43.1°	43.5°	42.8°	40.9°	40.5°	40.1°	40.5°
Beat VMG	2.96	3.49	3.94	4.26	4.40	4.47	4.47
52°	4.54	5.34	5.87	6.15	6.30	6.36	6.40
60°	4.81	5.63	6.07	6.30	6.46	6.56	6.62
75°	5.01	5.83	6.21	6.44	6.64	6.81	7.01
90°	4.95	5.80	6.30	6.57	6.70	6.91	7.28
110°	4.97	5.95	6.42	6.75	7.06	7.31	7.57
120°	4.83	5.85	6.36	6.70	7.05	7.37	7.85
135°	4.43	5.41	6.13	6.50	6.82	7.17	7.80
150°	3.83	4.76	5.58	6.17	6.50	6.80	7.42
Run VMG	3.31	4.12	4.85	5.48	6.05	6.40	6.98
Gybe Angles	148.0°	151.0°	152.0°	162.0°	180.0°	180.0°	180.0°