



World Leader in Rating Technology

2010 ORC Club Certificate

Rating Office

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Certificate

Number **10058b**
Issued On **13/03/2010**
ORC Ref **FRA00007564**
VPP Ver. **2010 1.08**
Valid until **28/02/2011**

Crew Weight

Declared **600 kg**
Default* **876 kg**
Non Manual Power **No**

Special Scoring

	ToD	ToT
Double Handed	621.5	0.9654
Non Spinnaker	670.7	0.8946
N/S Perf. Line	29.9	0.681

Sails Limitations

Genoas **1** Spinnakers **3**
Jibs **0**

Spinnaker configuration

Symmetric: **Yes** **116.29**
Asymmetric: **No**
Code Zero: **Yes** **74.49**
Spin. Pole: **Yes**

Stability

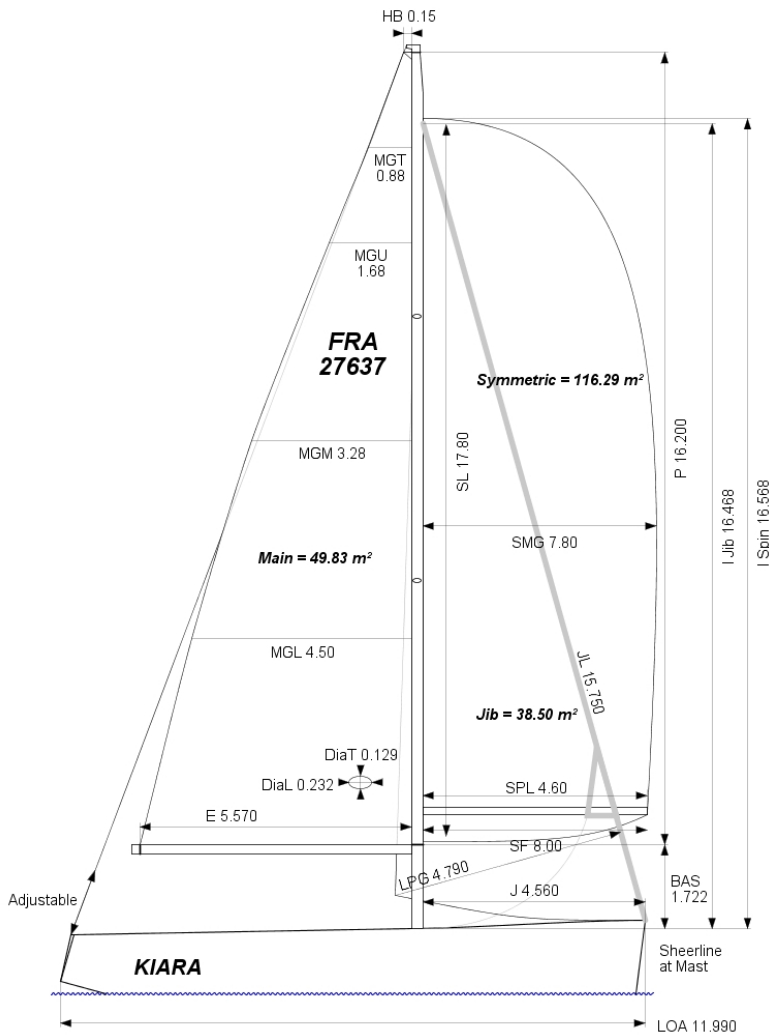
LPS (Estimated): **111.2°**
Stability Index: **114.3**
OSR Category: **2**

Owner

DE L'AULNOIT Thierry
5 Rue robert Turquan,
75016 - PARIS

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name KIARA Sail Nr FRA-27637	621.3	Data File F27637.dxt LOA 11.990 m Offset File HA400.OFF MB 4.042 m Displacement 8,703 kg Draft 1.984 m
CLASS Class HANSE 400 Gte Designer JUDEL Friedrich Builder HANSE YACHTS Series 06/2005 Age Date 03/2007 Age Allowance 0.325%		IMS Division Cruiser/Racer Dynamic All. 1.002% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Carbon Mast No Carbon Rudder No Anchor Wgt Anchor LCG
COMMENTS DSPM = 103 kg YANMAR SD50 From HA400DK3.dxt		IMS L 11.084 Wetted Area 34.35 m² VCGM 0.158
PROPELLER Installation Strut PRD 0.433 Type Folding		CENTERBOARD N/A

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	Time On Distance	621.3			708.2	
Time On Time	0.9658			0.9531		
Performance Line	PLT	PLD		PLT	PLD	
	0.783	61.7		0.866	213.9	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9273	1.2332	1.4162	0.6915	0.9664	1.1463



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ORC Club Certificate Appendix

BOAT	
Name KIARA	Certificate Number 10058b
Sail Nr FRA-27637	Issued On 13/03/2010

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1146.2	942.4	813.7	747.1	716.2	696.9	684.6
52°	710.8	602.4	533.6	495.3	477.8	468.2	459.2
60°	638.1	531.9	489.1	467.5	453.3	445.0	436.6
75°	566.2	493.6	454.0	434.2	423.8	417.3	406.9
90°	556.7	493.5	451.7	427.7	411.5	396.6	384.8
110°	600.2	510.5	465.0	433.9	408.6	389.5	373.2
120°	640.8	530.8	480.1	446.8	420.8	398.0	358.3
135°	733.4	592.4	516.9	474.1	445.0	422.0	382.5
150°	878.4	694.4	582.4	517.9	477.6	449.3	408.0
Run VMG	1014.3	801.8	672.5	586.3	530.4	490.1	437.8

Selected Courses							
Windward / Leeward	1100.7	882.7	754.2	676.7	630.6	600.2	567.8
Circular Random	867.8	696.4	602.3	546.2	510.8	487.5	459.1
Ocean for PCS	931.6	730.2	615.7	544.1	496.2	462.0	414.9
Non Spinnaker	957.9	759.4	648.9	582.0	539.2	510.8	475.9

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	48.0°	43.8°	44.3°	42.0°	40.9°	40.4°	41.1°
Beat VMG	3.14	3.82	4.42	4.82	5.03	5.17	5.26
52°	5.06	5.98	6.75	7.27	7.53	7.69	7.84
60°	5.64	6.77	7.36	7.70	7.94	8.09	8.25
75°	6.36	7.29	7.93	8.29	8.49	8.63	8.85
90°	6.47	7.29	7.97	8.42	8.75	9.08	9.36
110°	6.00	7.05	7.74	8.30	8.81	9.24	9.65
120°	5.62	6.78	7.50	8.06	8.56	9.05	10.05
135°	4.91	6.08	6.96	7.59	8.09	8.53	9.41
150°	4.10	5.18	6.18	6.95	7.54	8.01	8.82
Run VMG	3.55	4.49	5.35	6.14	6.79	7.34	8.22
Gybe Angles	142.5°	149.0°	149.2°	160.9°	170.2°	172.9°	175.7°