



World Leader in Rating Technology

**2010
ORC Club
Certificate**

Rating Office

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@
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Certificate

Number **10054a**
Issued On **08/03/2010**
ORC Ref **FRA00007499**
VPP Ver. **2010 1.08**
Valid until **28/02/2011**

Crew Weight

Declared **420 kg**
Default* **566 kg**
Non Manual Power **No**

Special Scoring

	ToD	ToT
Double Handed	654.8	0.9163
Non Spinnaker	712.8	0.8418
N/S Perf. Line	6.5	0.611

Sails Limitations

Genoas **0** Spinnakers **3**
Jibs **4**

Spinnaker configuration

Symmetric: **Yes** **79.59**
Asymmetric: **No**
Code Zero: **No**
Spin. Pole: **Yes**

Stability

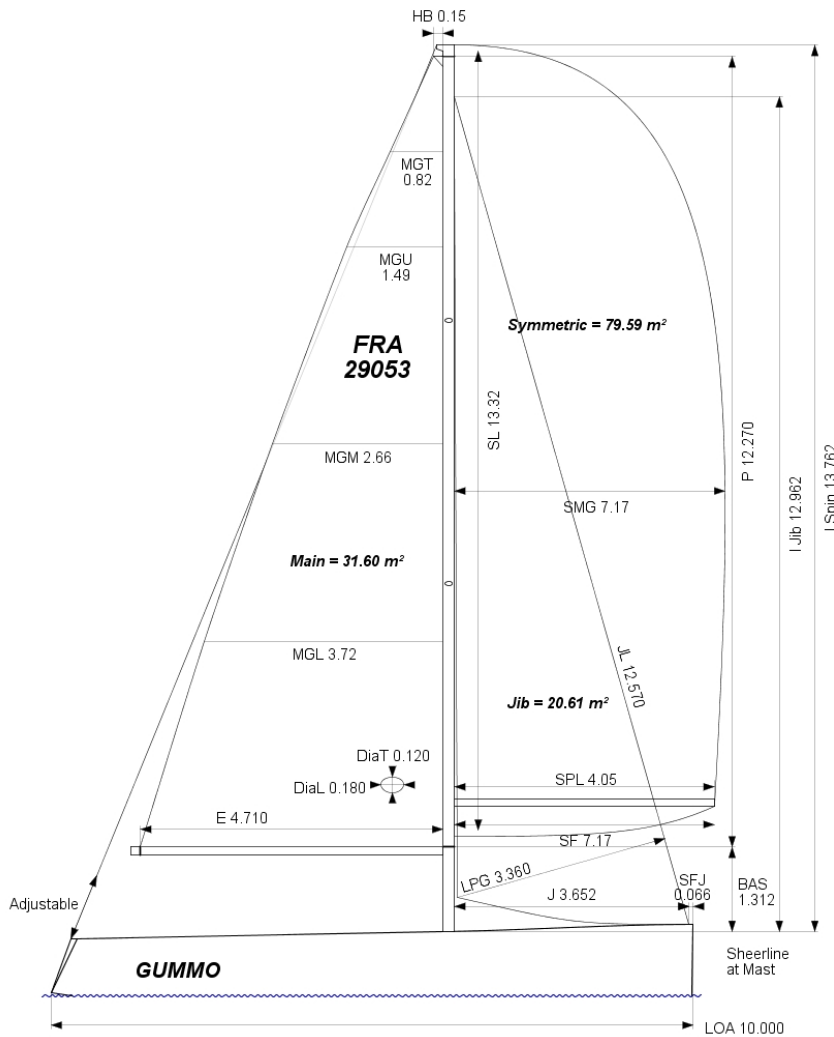
LPS (Estimated): **115.5°**
Stability Index: **110.6**
OSR Category: **2**

Owner

VARICHON Alain
10 rue Marlier,
98800 - NOUMEA

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

Signature



BOAT	GPH	HULL
Name GUMMO Sail Nr FRA-29053	651.3	Data File F29053.dxt LOA 10.000 m Offset File BON960rs.OFF MB 3.700 m Displacement 3,466 kg Draft 1.955 m
CLASS Class BONGO 9.6 Designer ROLAND Pierre Builder 3C COMPOSITE Series 06/2002 Age Date 06/2004 Age Allowance 0.520%		IMS Division Cruiser/Racer Dynamic All. 0.563% Fwd Accom. No Construction Solid Fiber Rigging No Aramid Core No Carbon Mast No Carbon Rudder No Anchor Wgt 40.0 Anchor LCG 0.50
COMMENTS VOLVO 130S 40cm skrit added. From BON960_3.dxt		IMS L 9.789 Wetted Area 21.45 m² VCGM -0.089
PROPELLER Installation Strut PRD 0.400 Type Folding		CENTERBOARD N/A

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	651.3			741.4		
Time On Time	0.9212			0.9105		
Performance Line	0.717	40.1		0.801	190.4	
Triple Number	Low 0.8770	Medium 1.1785	High 1.3784	Low 0.6624	Medium 0.9187	High 1.1103



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ORC Club Certificate Appendix

BOAT	
Name	GUMMO
Sail Nr	FRA-29053
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1222.6	987.4	868.8	800.4	757.9	730.8	705.2
52°	785.2	647.4	574.5	521.8	497.8	485.5	473.0
60°	729.5	613.6	540.2	495.3	471.5	460.4	448.9
75°	659.4	542.0	485.5	469.7	450.7	431.7	414.3
90°	613.1	510.6	463.8	444.5	432.9	424.4	393.2
110°	627.5	525.3	471.1	436.8	410.4	393.6	417.2
120°	661.3	553.6	487.0	448.9	418.0	388.9	350.3
135°	757.8	617.0	530.9	479.2	445.7	417.1	357.6
150°	904.0	712.3	607.0	531.9	483.6	451.3	398.2
Run VMG	1043.9	822.5	697.8	611.7	544.8	498.8	439.3

Selected Courses							
Windward / Leeward	1153.6	920.5	793.8	714.2	659.3	621.9	577.9
Circular Random	918.6	733.3	631.1	569.3	529.3	502.1	467.6
Ocean for PCS	982.7	767.3	644.4	566.8	513.7	474.4	416.4
Non Spinnaker	1027.1	811.0	689.5	614.6	565.3	531.1	486.6

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	44.2°	43.2°	41.5°	42.7°	42.9°	42.3°	41.7°
Beat VMG	2.94	3.65	4.14	4.50	4.75	4.93	5.11
52°	4.59	5.56	6.27	6.90	7.23	7.42	7.61
60°	4.94	5.87	6.66	7.27	7.63	7.82	8.02
75°	5.46	6.64	7.42	7.67	7.99	8.34	8.69
90°	5.87	7.05	7.76	8.10	8.32	8.48	9.16
110°	5.74	6.85	7.64	8.24	8.77	9.15	8.63
120°	5.44	6.50	7.39	8.02	8.61	9.26	10.28
135°	4.75	5.84	6.78	7.51	8.08	8.63	10.07
150°	3.98	5.05	5.93	6.77	7.44	7.98	9.04
Run VMG	3.45	4.38	5.16	5.88	6.61	7.22	8.20
Gybe Angles	143.9°	147.9°	156.0°	156.6°	162.9°	169.5°	172.4°