



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

**PATRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERASUR
Y.C.A**



Certificate

Number **456301**
Issued On **10/03/2016**
ORC Ref **ARG00002110**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **537kg**
Default* **549kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **683,5 0,8778**
Non Spin OSN **665,0 0,9023**
N/S Perf. Line **26,6 0,594**

Sails Limitations

Headsails **6** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 80,60**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8,134**

Stability

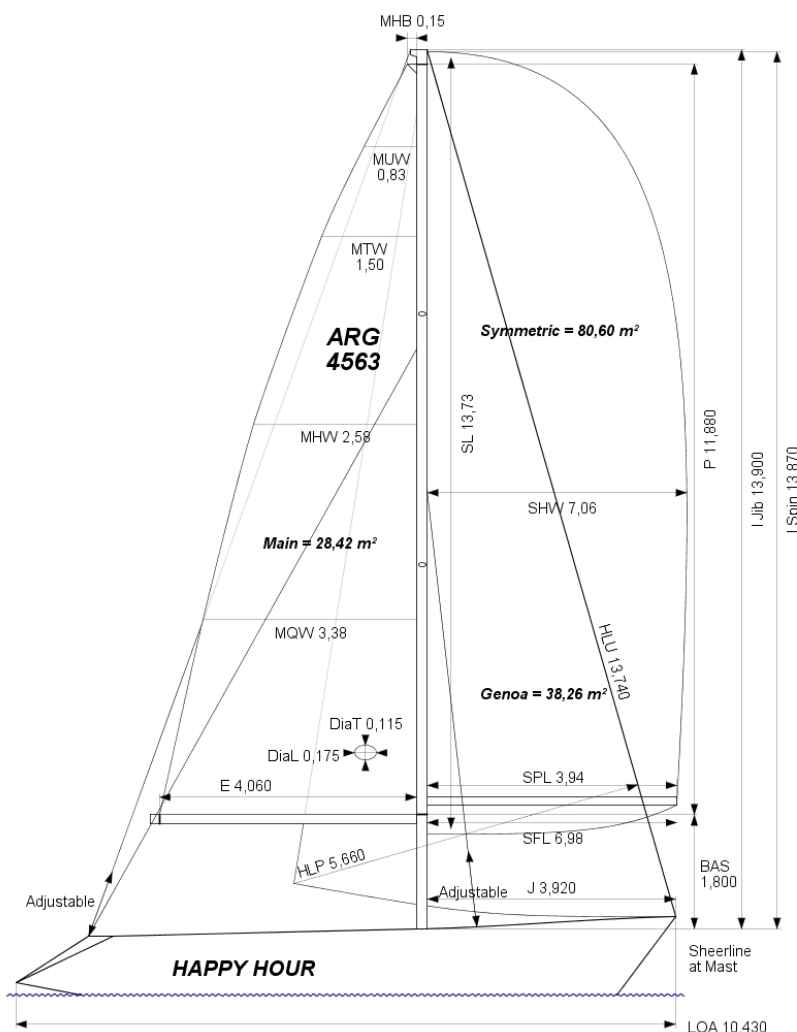
LPS (Estimated): **114,2°**
Stability Index: **112,3**
OSR Category: **N/A**

Owner

**VICENTE RAGONNETTI
BUENOS AIRES**

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

Signature



BOAT		GPH		HULL						
Name	HAPPY HOUR	657,6	Data File		ARG4563.dxt	LOA	10,430m			
Sail Nr	ARG-4563		Offset File		ARG4563.OFF	MB	3,524m			
			Displacement		4.730kg	Draft	1,784m			
CLASS				IMS Division		Cruiser/Racer	Dynamic All.	0,051%		
Class		PANDORA 34		Fwd Accom.		Yes	Construction	Solid		
Designer		N. VOLKER		Fiber Rigging		No	Aramid Core	No		
Builder		AST. MARCO		Crew Arm Ex			Carbon Rudder	No		
Series		03/1992		Light Stanchions						
Age Date		03/1992		IMSL		8,716m	VCGD	-0,044m	Sink	16,20kg/mm
Age Allowance		0,487%		RL		7,552m	VCGM	0,026m	WS	21,97m²
COMMENTS				LSM0		8,537m	Displacement/Length ratio			7,6023
				Water Ballast		0	Trim Tab		No	
PROPELLER				CENTERBOARD						
Installation		Strut		PRD		0,432				
Type		Folding 2 blades		PBW		0,105				
				PIPA		0,0029				
				N/A						

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	640,5			713,9		
Time On Time	0,9367			0,9455		
Performance Line	PLT	PLD		PLT	PLD	
	0,654	50,3		0,823	219,8	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8989	1,1566	1,2972	0,6947	0,9385	1,0859



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ORC Club Certificate Appendix

BOAT

Name **HAPPY HOUR**
Sail Nr **ARG-4563**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1102,5	925,2	823,3	768,4	741,7	728,0	723,5
52°	716,4	605,3	549,4	527,2	517,8	512,8	509,4
60°	674,0	572,6	531,9	513,0	502,5	496,7	492,0
75°	638,6	550,8	518,9	499,9	484,6	472,5	461,8
90°	641,3	552,4	519,6	500,2	483,2	467,1	443,2
110°	677,5	561,1	517,6	491,7	468,2	452,5	435,4
120°	697,3	574,2	523,4	496,9	472,5	449,4	419,0
135°	766,0	624,7	546,8	513,2	489,4	466,1	424,2
150°	896,2	713,5	606,3	542,7	512,7	490,5	447,9
Run VMG	1034,8	823,9	698,4	614,9	556,0	521,2	477,5

Selected Courses

Windward / Leeward	1068,7	874,5	760,8	691,6	648,8	624,6	600,5
Circular Random	902,4	730,4	638,3	584,8	551,9	530,5	504,5
Ocean for PCS	1105,8	857,0	716,6	630,7	574,8	535,8	482,0
Non Spinnaker	948,4	763,1	662,8	603,8	567,3	543,6	514,2

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	43,9°	42,9°	43,2°	41,4°	40,4°	39,5°	39,5°
Beat VMG	3,27	3,89	4,37	4,69	4,85	4,95	4,98
52°	5,03	5,95	6,55	6,83	6,95	7,02	7,07
60°	5,34	6,29	6,77	7,02	7,16	7,25	7,32
75°	5,64	6,54	6,94	7,20	7,43	7,62	7,80
90°	5,61	6,52	6,93	7,20	7,45	7,71	8,12
110°	5,31	6,42	6,96	7,32	7,69	7,96	8,27
120°	5,16	6,27	6,88	7,25	7,62	8,01	8,59
135°	4,70	5,76	6,58	7,01	7,36	7,72	8,49
150°	4,02	5,05	5,94	6,63	7,02	7,34	8,04
Run VMG	3,48	4,37	5,15	5,85	6,48	6,91	7,54
Gybe Angles	146,7°	150,8°	152,0°	158,7°	180,0°	180,0°	180,0°