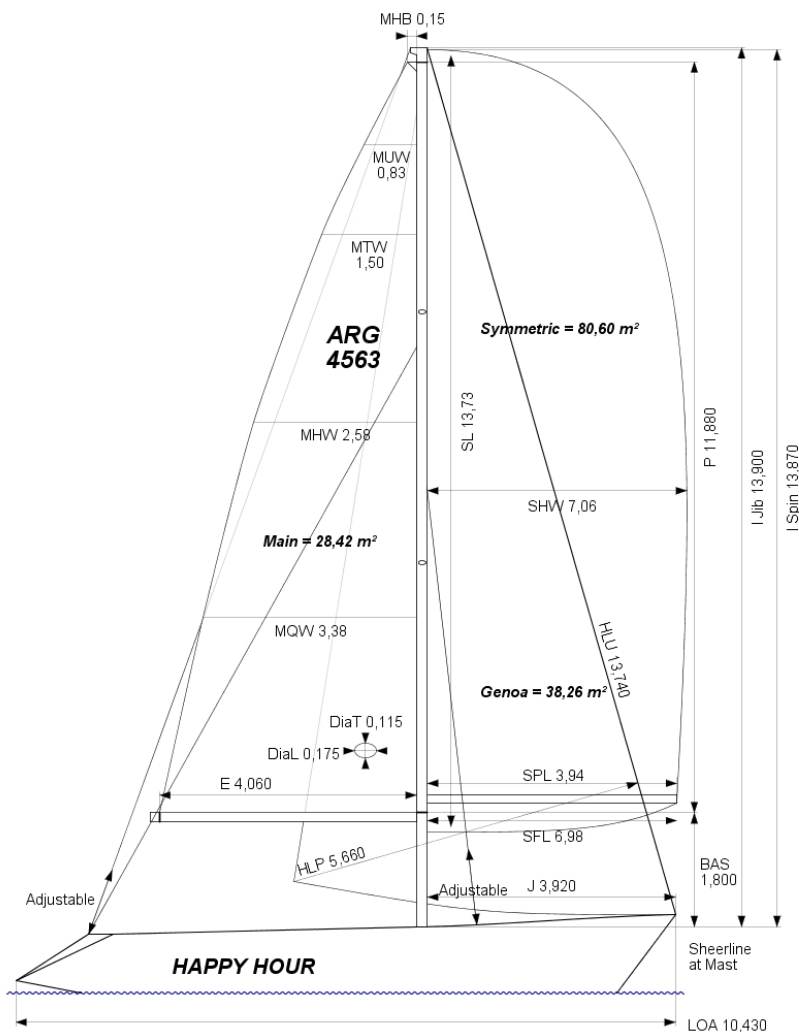




World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

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



Certificate

Number **456301**
Issued On **10/03/2017**
ORC Ref **ARG00004515**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **610kg**
Default* **549kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	661,6	0,9070
Double H.OSN	645,6	0,9293
Non Spin GPH	683,9	0,8773
Non Spin OSN	665,2	0,9020

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

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

Class Division Length

CDL = 8,127

Stability (Estimated)

Limit Positive Stab.: **114,2°**
Stability Index: **112,3**

Owner

**VICENTE RAGONNETTI
BUENOS AIRES**

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

Signature

BOAT		GPH	HULL	
Name	HAPPY HOUR	658,0	Data File	ARG4563
Sail Nr	ARG-4563		Offset File	ARG4563.OFF
CLASS			Displacement	4.730kg
Class	PANDORA34		LOA	10,430m
Designer	N. VOLKER		MB	3,524m
Builder	AST. MARCO		Draft	1,784m
Series	03/1992		IMS Division	Cruiser/Racer
Age Date	03/1992		Dynamic All.	0,051%
Age Allowance	0,487%		Fwd Accom.	Yes
COMMENTS			Construction	Solid
			Fiber Rigging	No
			Aramid Core	No
			Carbon Rudder	No
			Light Stanchions	
			IMSL	8,716m
			VCGD	-0,044m
			Sink	16,20kg/mm
			RL	7,537m
			VCGM	0,026m
			WS	21,97m²
			LSM0	8,537m
			Displacement/Length ratio	7,6023
			Water Ballast	0
			Trim Tab	No
PROPELLER			CENTERBOARD	
Installation	Strut	PRD 0,432	N/A	
Type	Folding 2 blades	PBW 0,105		
		PIPA 0,0029		

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	640,8			714,2		
Time On Time	0,9364			0,9451		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	750,3	584,2	521,4	969,5	719,4	623,3
Time on Time	0,8996	1,1554	1,2947	0,6962	0,9383	1,0829

BOAT Name HAPPY HOUR Sail Nr ARG-4563 File ARG4563 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 01/08/2014 SG 1,0000 FFM 1,203 FF 1,211 SFFP 0,880 FAM 0,929 FA 0,937 SAFF 8,889 LCF from stem on CL / on sheer 5,672 / 5,931 Maximum beam station from stem 6,301 RM Measured 99,2kg-m RM Default 96,3kg-m Limit of positive stability / Stab.Index 114,2° / 112,3 Freeboard at mast at 3,920 1,044		 World Leader in Rating Technology 2017 Measurements Datasheet												
RIG Forestay Tension Aft Spreaders 2 Inner Stay Adjustable Runners 1 Carbon Mast No Jumper Struts None Taper Hollows No Jib Furler No Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No P 11,880 E 4,060 MDT1 0,115 MW 0,175 IG 13,900 J 3,920 MDL1 0,175 GO 0,185 ISP 13,870 SFJ 0,000 MDT2 0,115 BD 0,142 BAS 1,800 SPL 3,940 MDL2 0,175 MWT FSP 0,070 TPS TL 0,000 MCG		Certificate Number 456301 ORC Ref ARG00004515 Issued On 10/03/2017 VPP Ver. 2017 1.00 Valid until 31/12/2017														
MIZZEN RIG AND SAILS N/A			PROPELLER Installation Strut PRD 0,432 Type Folding 2 blades PBW 0,105 Twin Screw No PIPA 0,0029 ST1 0,045 ST3 0,170 ST5 0,280 ST2 0,170 ST4 0,095 EDL 2,050													
COMMENTS			MOVEABLE BALLAST N/A													
COMMENTS		CENTERBOARD N/A														
SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M2	0,150	0,83	1,50	2,58	3,38	28,42	PG	10/01/2014	NORTH	Kevlar						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,08	0,70	1,37	2,74	4,15	5,66	13,74	144%	38,26			PG	10/01/2014	NORTH	Kevlar	* Copied from legacy *
G2	0,10	0,66	1,25	2,57	3,93	5,40	13,30	138%	34,99				15/08/2012	NORTH	Kevlar	
G3	0,08	0,50	0,95	1,88	2,87	3,88	13,98	99%	26,85				09/03/2012	NORTH	Kevlar	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S1,5	13,73	13,73	13,73	7,06	6,98	80,60		03/07/2013	NORTH	Nylon						
S1	13,63	13,63	13,63	7,05	6,94	79,83	EC	27/10/2011	NORTH	Nylon	* Copied from legacy *					
S5	13,68	13,68	13,68	6,54	6,72	74,97		19/03/2012	NORTH	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
MEASUREMENT INVENTORY																
Measurer P. GUTIERREZ PG Date 01/08/2014 Comment																
Id	Item	Weight	Distance	VCG	Description											
Id	Item	Maker	Model													
C5	Engine	VOLVO	28 HP													
Id	Item	Weight	Description													
MEASUREMENT INVENTORY																
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description								
C4	Tank	GAS OIL	INOX	60,0	7,92	0,00	8,0									
B6	Tank	AGUA	INOX	100,0	5,00	0,00	0,0									
Id	Item	Weight	Distance	VCG	Description											
B4	Battery	32,0	8,15	0,00	2 X 12 V - 75 AMP											



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT

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

Certificate Number **456301**
Issued On **10/03/2017**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1097,6	921,3	822,7	769,1	744,1	731,5	727,4
52°	716,1	605,0	551,6	529,7	520,4	515,3	511,9
60°	675,1	574,1	534,8	516,0	505,0	499,1	494,4
75°	641,1	553,9	522,1	503,1	487,6	475,0	463,6
90°	641,6	552,5	519,5	500,0	483,1	466,7	442,4
110°	678,3	561,6	517,7	491,8	467,6	450,4	433,3
120°	698,0	574,6	523,5	496,9	472,5	449,3	416,7
135°	766,5	625,0	546,8	513,2	489,4	466,0	424,1
150°	896,5	713,6	606,3	542,7	512,6	490,4	447,8
Run VMG	1035,2	824,0	698,4	614,9	556,0	521,2	477,6

Selected Courses

Windward / Leeward	1066,4	872,6	760,5	692,0	650,1	626,4	602,5
Circular Random	902,3	730,5	638,7	585,5	552,7	531,4	505,4
Ocean for PCS	1104,7	856,6	716,8	631,2	575,5	536,5	482,1
Non Spinnaker	948,2	763,3	663,3	604,6	568,3	544,7	515,3

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	43,5°	42,6°	42,9°	41,3°	40,2°	39,6°	39,6°
Beat VMG	3,28	3,91	4,38	4,68	4,84	4,92	4,95
52°	5,03	5,95	6,53	6,80	6,92	6,99	7,03
60°	5,33	6,27	6,73	6,98	7,13	7,21	7,28
75°	5,62	6,50	6,89	7,16	7,38	7,58	7,77
90°	5,61	6,52	6,93	7,20	7,45	7,71	8,14
110°	5,31	6,41	6,95	7,32	7,70	7,99	8,31
120°	5,16	6,27	6,88	7,24	7,62	8,01	8,64
135°	4,70	5,76	6,58	7,02	7,36	7,73	8,49
150°	4,02	5,04	5,94	6,63	7,02	7,34	8,04
Run VMG	3,48	4,37	5,15	5,86	6,47	6,91	7,54
Gybe Angles	146,7°	150,8°	152,0°	158,7°	180,0°	180,0°	180,0°