



Certificate		
Number	551401	
Issued On	26/05/2017	
ORC Ref	ARG00004808	
VPP Ver.	2017 1.00	
Valid until	31/12/2017	
Crew Weight		
Declared	170kg	
Default*	645kg	
Non Manual Pwr	No	
Special Scoring		
	ToD	ToT
Non Spin GPH	666,6	0,9001
Non Spin OSN	645,9	0,9289
Sails Limitations		
Headsails	5	Spinnakers 3
Spinnaker configuration		
Symmetric:	Yes	85,55
Asymmetric:	Yes	65,24
Flying H/S:	No	
Spin. Pole:	Yes	
Class Division Length		
CDL =	8,932	
Stability (Estimated)		
Limit Positive Stab.:	119,5°	
Stability Index:	121,0	

Owner
CARLOS E. CAMPOLO ALISON BELL 675 QUILMES
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name	TATA
File	2ARG5514
Sail Nr	ARG-5514
Data in	meters/kilograms

RIG							
Forestay Tension	Fixed			Spreaders	2		
Inner Stay	None Fitted			Runners	0		
Carbon Mast	No			Jumper Struts	None		
Taper Hollows	No			Jib Furler			
Fiber Rigging	No			Main Furler	No		
Lenticular Rigging	No			Without Backstay	No		
Articulated Bowsprit	No						
P	13,350	E	4,720	MDT1	0,112	MW	0,175
IG	13,675	J	3,930	MDL1	0,175	GO	0,200
ISP	13,945	SFJ	0,295	MDT2	0,112	BD	0,160
BAS	1,585	SPL	3,950	MDL2	0,112	MWT	
FSP	-2,000	TPS	3,900	TL	0,900	MCG	

MIZZEN RIG AND SAILS	
	N/A

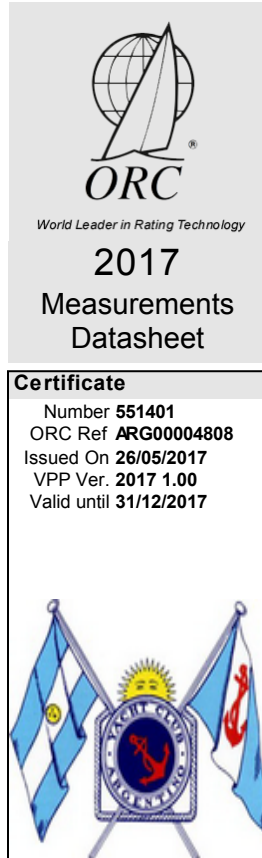
COMMENTS	

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date	10/02/2015	SG	1,0000
FFM	1,309	FF	1,322 SFFP 0,344
FAM	1,032	FA	1,041 SAFP 10,374
LCF from stem on CL / on sheer			5,647 / 5,871
Maximum beam station from stem			6,547
RM Measured			127,7kg·m
RM Default			124,0kg·m
Limit of positive stability / Stab.Index			119,5° / 121,0
Freeboard at mast at 4,225			1,180

PROPELLER					
Installation	Strut			PRD	0,426
Type	Folding 2 blades			PBW	0,100
Twin Screw	No			PIPA	0,0034
ST1	0,042	ST3	0,180	ST5	0,280
ST2	0,180	ST4	0,112	EDL	1,920

MOVEABLE BALLAST
N/A

CENTERBOARD	
	N/A



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer			Meas.Date	Manufacture	Material	Comment			
M1	0,155	0,95	1,72	2,96	3,92	36,86	MACULAN			03/07/2013	QUANTUM	Vectran	* Copied from legacy			
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1M	0,05	0,56	1,10	2,16	3,22	4,21	13,76	107%	29,53	Y		NP	24/05/2017	QUANTUM	Kevlar	
G1	0,08	0,55	1,07	2,09	3,10	4,05	13,75	103%	28,50	Y		PG	11/02/2015	QUANTUM	Vectran	* Copied from legacy *
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer			Meas.Date	Manufacture	Material	Comment			
S3-2	13,85	13,85	13,85	7,44	7,30	85,55	NP			24/05/2017	QUANTUM	Nylon	NUEVO			
S5	13,55	13,55	13,55	6,95	6,42	77,28	PG			08/10/2015	GARIBALDI	Nylon				
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer			Meas.Date	Manufacture	Material	Comment		
A0	14,30	12,87	13,59	5,30	6,64	63,03	asym				08/08/2013	QUANTUM	Nylon			

MEASUREMENT INVENTORY				
Measurer JC MACULAN JCM Date 10/02/2015 Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>		<i>Model</i>
C4	Engine	YANMAR		29 HP
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
B6	Tank	AGUA	PVC RIGIDO	60,0	4,36	0,00	55,0	
E3	Tank	GAS OIL	PVC RIGIDO	60,0	7,84	0,00	20,0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>			
C5	Ballast	245,0	5,08	0,00	10 PANES DE PLOMO			
C5	Battery	15,0	6,67	0,00	12V X 75 AMP			
C5	Battery	18,0	6,67	0,00	12V X 100 AMP			



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT

Name **TATA**
Sail Nr **ARG-5514**

Certificate Number **551401**
Issued On **26/05/2017**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1115,6	916,3	799,3	737,8	712,2	699,2	681,2
52°	721,1	599,4	531,6	504,9	495,7	491,0	484,0
60°	674,7	564,7	511,7	490,2	481,0	476,3	470,5
75°	636,8	539,4	498,5	477,4	462,4	453,1	445,8
90°	638,0	534,0	490,0	474,8	458,5	441,1	419,0
110°	641,9	529,9	486,0	461,0	440,9	427,6	407,4
120°	662,1	543,9	492,9	465,8	440,2	420,6	389,9
135°	734,5	595,1	518,7	484,2	459,7	434,7	386,5
150°	872,7	690,2	582,0	516,9	485,1	462,1	416,6
Run VMG	1007,8	796,9	671,6	589,7	533,2	495,4	449,7

Selected Courses

Windward / Leeward	1061,7	856,6	735,4	663,8	622,7	597,3	565,4
Circular Random	881,6	708,1	614,4	559,6	525,7	503,4	474,2
Ocean for PCS	1083,1	832,5	690,7	604,0	547,7	508,6	454,1
Non Spinnaker	940,5	749,7	645,3	583,5	545,0	519,8	488,0

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	44,0°	42,7°	42,4°	41,1°	39,9°	39,4°	39,1°
Beat VMG	3,23	3,93	4,50	4,88	5,05	5,15	5,28
52°	4,99	6,01	6,77	7,13	7,26	7,33	7,44
60°	5,34	6,38	7,04	7,34	7,48	7,56	7,65
75°	5,65	6,67	7,22	7,54	7,79	7,95	8,08
90°	5,64	6,74	7,35	7,58	7,85	8,16	8,59
110°	5,61	6,79	7,41	7,81	8,17	8,42	8,84
120°	5,44	6,62	7,30	7,73	8,18	8,56	9,23
135°	4,90	6,05	6,94	7,44	7,83	8,28	9,31
150°	4,12	5,22	6,19	6,96	7,42	7,79	8,64
Run VMG	3,57	4,52	5,36	6,10	6,75	7,27	8,01
Gybe Angles	144,9°	149,2°	150,9°	156,7°	180,0°	180,0°	180,0°