

BOAT Name KANTAKA Sail Nr ECU 60539	GPH 612,5	HULL Length Overall 11,462m Maximum Beam 3,578m Displacement 6.878kg Draft 2,357m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,140% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Crew Arm Extension
GENERAL Class Salona 38 BK Designer Jakopin Builder Salona Yachts Series 05/2011 Age 07/2014 Age Allowance 0,195% Offset File SALONA38BK2.off - 30/07/2012 Measurement by A. V. M. - 24/06/2017		IMSL 10,489m VCGD 0,084m Sink 21,80kg/mm RL 8,928m VCGM 0,108m WS 29,82m² LSMO 10,374m Displacement/Length ratio 6,1606



World Leader in Rating Technology

2017
ORC International
Certificate

Rating Office
Federación Ecuatoriana
de Vela
Patricio D. Gutiérrez - RO
gutierrez@yca.org.ar



	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	595,0			664,9		
Time On Time	1,0084			1,0151		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	707,8	541,0	479,5	919,5	670,3	574,2
Time on Time	0,9536	1,2476	1,4076	0,7341	1,0070	1,1755

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1044,0	865,4	761,6	706,7	682,6	670,6	661,5
52°	679,4	569,7	510,3	486,6	477,9	473,4	469,9
60°	638,2	538,0	492,6	473,2	464,3	459,5	455,4
75°	604,0	514,9	480,2	461,2	447,1	437,6	429,8
90°	604,9	514,6	478,1	459,7	443,2	427,2	405,3
110°	632,6	519,9	474,8	450,4	430,4	419,2	399,7
120°	652,4	534,3	481,5	456,0	432,9	410,0	384,7
135°	723,4	585,8	507,6	472,7	450,4	428,3	384,8
150°	855,4	676,4	571,3	505,7	473,6	452,4	411,2
Run VMG	987,8	781,1	659,3	578,2	523,2	484,6	442,0

Certificate
Number
ORC Ref **ECU00005620**
Issued On **04/10/2017**
VPP Ver. **2017 1.00**
Valid until **31/03/2018**

Crew Weight
Declared **772kg**
Default* **725kg**
Non Manual Pwr

Special Scoring
ToD ToT
Non Spin GPH **639,0 0,9390**
Non Spin OSN **620,7 0,9666**

Selected Courses							
Windward / Leeward	1015,9	823,2	710,5	642,4	602,9	577,6	551,8
Circular Random	848,3	683,0	593,9	542,0	510,0	489,1	463,6
Ocean for PCS	1042,3	802,8	667,4	584,5	530,9	493,8	443,5
Non Spinnaker	895,9	716,8	619,0	561,2	525,3	501,7	472,4

Sails Limitations	
Headsails	Spinnakers
6	4

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°	42,1°	42,0°	40,5°	39,2°	39,1°	38,9°
Beat VMG	3,45	4,16	4,73	5,09	5,27	5,37	5,44
52°	5,30	6,32	7,05	7,40	7,53	7,60	7,66
60°	5,64	6,69	7,31	7,61	7,75	7,83	7,91
75°	5,96	6,99	7,50	7,81	8,05	8,23	8,38
90°	5,95	7,00	7,53	7,83	8,12	8,43	8,88
110°	5,69	6,92	7,58	7,99	8,37	8,59	9,01
120°	5,52	6,74	7,48	7,89	8,32	8,78	9,36
135°	4,98	6,15	7,09	7,62	7,99	8,41	9,35
150°	4,21	5,32	6,30	7,12	7,60	7,96	8,75
Run VMG	3,64	4,61	5,46	6,23	6,88	7,43	8,14
Gybe Angles	144,8°	149,4°	151,1°	155,8°	171,7°	180,0°	180,0°

Class Division Length
CDL = **9,710**

Storm Sails Areas
Heavy Weather Jib **28,99**
Storm Jib (JL=9,53) **10,74**
Storm Trysail **13,18**

Owner
CARLOS FRANCISCO
CALDERON


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

Signature

BOAT	
Name KANTAKA	Sail Nr ECU 60539
File ECU60539	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 09/06/2016	SG 1,0253	
FFM 1,415	FF 1,414	SFFP 0,300
FAM 1,054	FA 1,055	SAFP 10,260
W1 90,0	PD1 531,7	WD 11,360
W2 90,0	PD2 528,1	GSA 1,0
W3 90,0	PD3 533,7	RSA 1,0
W4 90,0	PD4 529,6	PLM 9000,0
LCF from stem on CL / on sheer		6,405 / 6,644
Maximum beam station from stem		7,100
RM Measured		151,7kg·m
RM Default		166,5kg·m
Limit of positive stability / Stab.Index		113,0° / 116,9
Freeboard at mast at 4,180		1,209

RIG				
Forestay Tension Aft	Spreaders 3			
Inner Stay None Fitted	Runners 0			
Carbon Mast No	Jumper Struts None			
Taper Hollows	Jib Furler			
Fiber Rigging No	Main Furler			
Lenticular Rigging	Without Backstay			
Articulated Bowsprit No				
P 14,130	E 5,330	MDT1 0,116	MW 0,216	
IG 14,640	J 4,180	MDL1 0,216	GO 0,220	
ISP 15,550	SFJ	MDT2 0,116	BD 0,170	
BAS 1,760	SPL 4,190	MDL2 0,152	MWT 180,00	
FSP 0,068	TPS	TL 0,930	MCG 5,100	



World Leader in Rating Technology

2017

IMS Measurement Certificate


Certificate

Number
ORC Ref **ECU00005620**

Issued On **04/10/2017**

VPP Ver. **2017 1.00**

Valid until **31/03/2018**



MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,424	
Type Folding 3 blades	PBW 0,105	
Twin Screw	PIPA 0,0035	
ST1 0,042	ST3 0,180	ST5 0,255
ST2 0,180	ST4 0,112	EDL 2,060

COMMENTS	
antes Pushing Tin US60538 medicacion completa	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,210	1,13	2,00	3,48	4,47	44,98	46,05	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	100,31		SL · (SFL + 4·SHW) / 6	
	15,42	15,42	15,42	7,82	7,75				
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,09	0,71	1,38	2,77	4,25	5,77	14,61	41,42	Y		31/03/2017	Kevlar	REMEDIACION
0,06	0,70	1,36	2,75	4,20	5,74	14,60	41,00			03/10/2017	Kevlar	
0,09	0,72	1,36	2,49	3,48	4,42	14,87	35,35	Y		09/03/2016	Kevlar	REMEDIACION

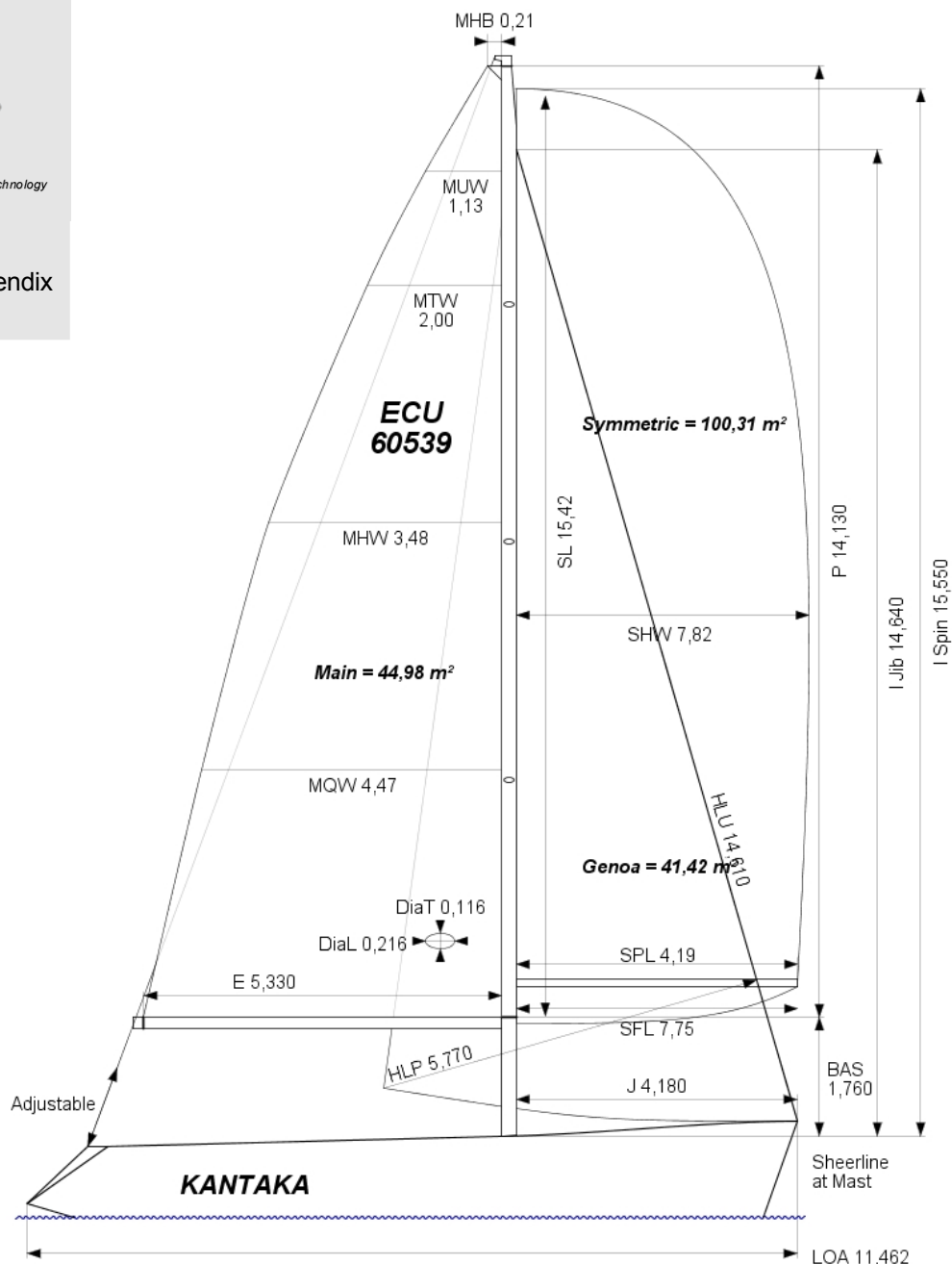
MEASUREMENT INVENTORY				
Measurer P GUTIERREZ P G				
Date 28/09/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Yanmar 30HP	3YM30AE	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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 Description</i>
B3	Tank	AGUA	PVC - Fix	180,0	9,03	0,20	0,0 A BABOR
E3	Tank	PETROL	Inox-Fix	100,0	9,18	0,20	0,0 A ESTRIBOR
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
B5	Ballast	102,2	6,88	-0,10 6 BARRAS DE PLOMO LADO BABOR			
B4	Ballast	23,0	7,48	-0,10 1 BARRA DE PLOMO BABOR			
E4	Ballast	26,0	7,48	-0,10 1 BARRA DE PLOMO LADO ESTRIBOR			
E5	Ballast	77,0	6,88	-0,10 3 BARRAS DE PLOMO LADO ESTRIBOR			
B3	Ballast	27,0	7,63	-0,10 BARRA DE PLOMO			
E6	Battery	15,0	5,73	0,10 12 v - 100 AMP			
E6	Battery	26,0	5,98	0,10 12 v - 170 AMP			



World Leader in Rating Technology

2017
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0,210	1,13	2,00	3,48	4,47	44,98	A V M	31/03/2017	NORTH	Kevlar	REMEDICION

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G2	0,09	0,71	1,38	2,77	4,25	5,77	14,61	138%	41,42	Y		A V M	31/03/2017	ONE SAILS	Kevlar	REMEDICION
JT	0,06	0,70	1,36	2,75	4,20	5,74	14,60	137%	41,00			DECLAR	03/10/2017	ELVSTROM	Kevlar	REMEDICION
G1	0,09	0,72	1,36	2,49	3,48	4,42	14,87	106%	35,35	Y		A V M	09/03/2016	NORTH	Kevlar	REMEDICION

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1.5	15,42	15,42	15,42	7,82	7,75	100,31	A V M	31/03/2017	NORTH	Nylon	USADA
S2A	15,20	15,20	15,20	7,49	7,40	94,65	TACHA	02/08/2014	NORTH	Nylon	USADA
S1	14,82	14,82	14,82	7,52	7,08	91,79	G LIZA	07/03/2015	ONE SAILS	Nylon	USADA

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
----	-----	-----	----	-----	-----	------	------	----------	-----------	-------------	----------	---------