

BOAT Name L'ARRABBIATA Sail Nr ECU-2203	GPH 616,3	HULL Length Overall 14,012m Maximum Beam 3,981m Displacement 10.054kg Draft 1,527m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,147% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class LEGEND 45 Designer HUNTER Builder HUNTER YACHTS Series 01/1986 Age 01/1987 Age Allowance 0,487% Offset File US19489.BOF - 24/12/1989 11:11:34 Measurement by P. GUTIERREZ - 01/10/2017		IMSL 12,172m VCGD -0,170m Sink 27,47kg/mm RL 8,012m VCGM -0,120m WS 37,29m² LSMO 12,292m Displacement/Length ratio 5,4134



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Rating Office
Federación Ecuatoriana
de Vela
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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	599,0			679,7		
Time On Time	1,0017			0,9931		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	726,4	540,7	472,6	957,2	687,6	579,5
Time on Time	0,9293	1,2484	1,4282	0,7052	0,9817	1,1647

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1121,6	916,6	808,4	746,0	711,9	693,1	683,2
52°	705,7	583,1	513,6	481,1	467,4	461,0	456,1
60°	649,8	540,8	481,7	458,1	448,6	443,6	439,0
75°	605,3	506,1	461,3	441,7	429,5	421,9	414,2
90°	602,1	502,5	457,4	437,1	422,5	409,5	389,6
110°	644,2	519,8	458,7	432,7	415,3	400,5	382,3
120°	661,7	533,5	465,4	436,4	415,4	394,9	367,0
135°	733,4	583,7	497,1	453,1	430,2	410,1	368,7
150°	871,6	678,8	567,8	495,8	454,8	432,7	394,7
Run VMG	1006,5	783,9	655,7	570,4	514,5	471,8	425,3

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Crew Weight
Declared **725kg**
Default* **924kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **643,4 0,9325**
Non Spin OSN **626,2 0,9582**

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1064,0	850,2	732,0	658,2	613,2	582,5	554,2
Circular Random	867,0	692,1	596,7	540,5	505,6	483,1	456,7
Ocean for PCS	1075,3	820,1	674,8	585,0	526,4	485,7	430,7
Non Spinnaker	915,1	726,5	622,5	560,3	521,4	496,0	466,2

Sails Limitations	Headsails	Spinnakers
	6	4

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	47,3°	46,1°	46,2°	45,6°	44,4°	43,5°	43,1°
Beat VMG	3,21	3,93	4,45	4,83	5,06	5,19	5,27
52°	5,10	6,17	7,01	7,48	7,70	7,81	7,89
60°	5,54	6,66	7,47	7,86	8,02	8,12	8,20
75°	5,95	7,11	7,80	8,15	8,38	8,53	8,69
90°	5,98	7,16	7,87	8,24	8,52	8,79	9,24
110°	5,59	6,93	7,85	8,32	8,67	8,99	9,42
120°	5,44	6,75	7,74	8,25	8,67	9,12	9,81
135°	4,91	6,17	7,24	7,95	8,37	8,78	9,76
150°	4,13	5,30	6,34	7,26	7,92	8,32	9,12
Run VMG	3,58	4,59	5,49	6,31	7,00	7,63	8,47
Gybe Angles	144,5°	148,1°	149,9°	152,3°	159,2°	180,0°	180,0°

Class Division Length
CDL = **10,093**

Storm Sails Areas
Heavy Weather Jib **43,93**
Storm Jib (JL=11,73) **16,27**
Storm Trysail **14,00**

Owner
FABRIZIO DELGADO
COMPODONICO


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

Signature

BOAT	
Name L'ARRABIATA	Sail Nr ECU-2203
File ECU2203	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/10/2017		SG 1,0253	
FFM 1,400	FF 1,397	SFFP 0,853	
FAM 1,128	FA 1,132	SAFP 12,732	
W1 120,0	PD1 451,3	WD 12,170	
W2 120,0	PD2 453,4	GSA 1,0	
W3 120,0	PD3 454,7	RSA 1,0	
W4 120,0	PD4 455,5	PLM 9000,0	
LCF from stem on CL / on sheer		7,935 / 8,150	
Maximum beam station from stem		8,428	
RM Measured		253,5kg·m	
RM Default		225,6kg·m	
Limit of positive stability / Stab.Index		122,4° / 128,8	
Freeboard at mast at 5,578		1,230	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
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 15,910	E 5,030	MDT1 0,150	MW 0,231
IG 17,930	J 5,260	MDL1 0,230	GO 0,263
ISP 18,008	SFJ 0,318	MDT2 0,150	BD 0,185
BAS 1,877	SPL 5,247	MDL2 0,230	MWT
FSP 0,250	TPS	TL	MCG




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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,490		
Type Folding 2 blades	PBW 0,154		
Twin Screw No	PIPA 0,0269		
PSA 16,000	PHL 0,128	ST3 0,126	ESL 2,939
PSD 0,136	ST1 0,040	ST4 0,060	
PHD 0,079	ST2 0,099	ST5 0,263	

COMMENTS	
NUEVO BARCO ENFLOTA	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,155	0,93	1,71	3,10	4,09	45,71	46,28	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17,50	17,50	17,50	9,65	9,38	139,94		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	17,14	16,02	16,58	8,19	9,56	116,94		AS · (SFL + 4·SHW) / 6	

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	0,92	1,86	3,75	5,83	8,01	17,34	67,28			02/07/2017	Kevlar	USADA

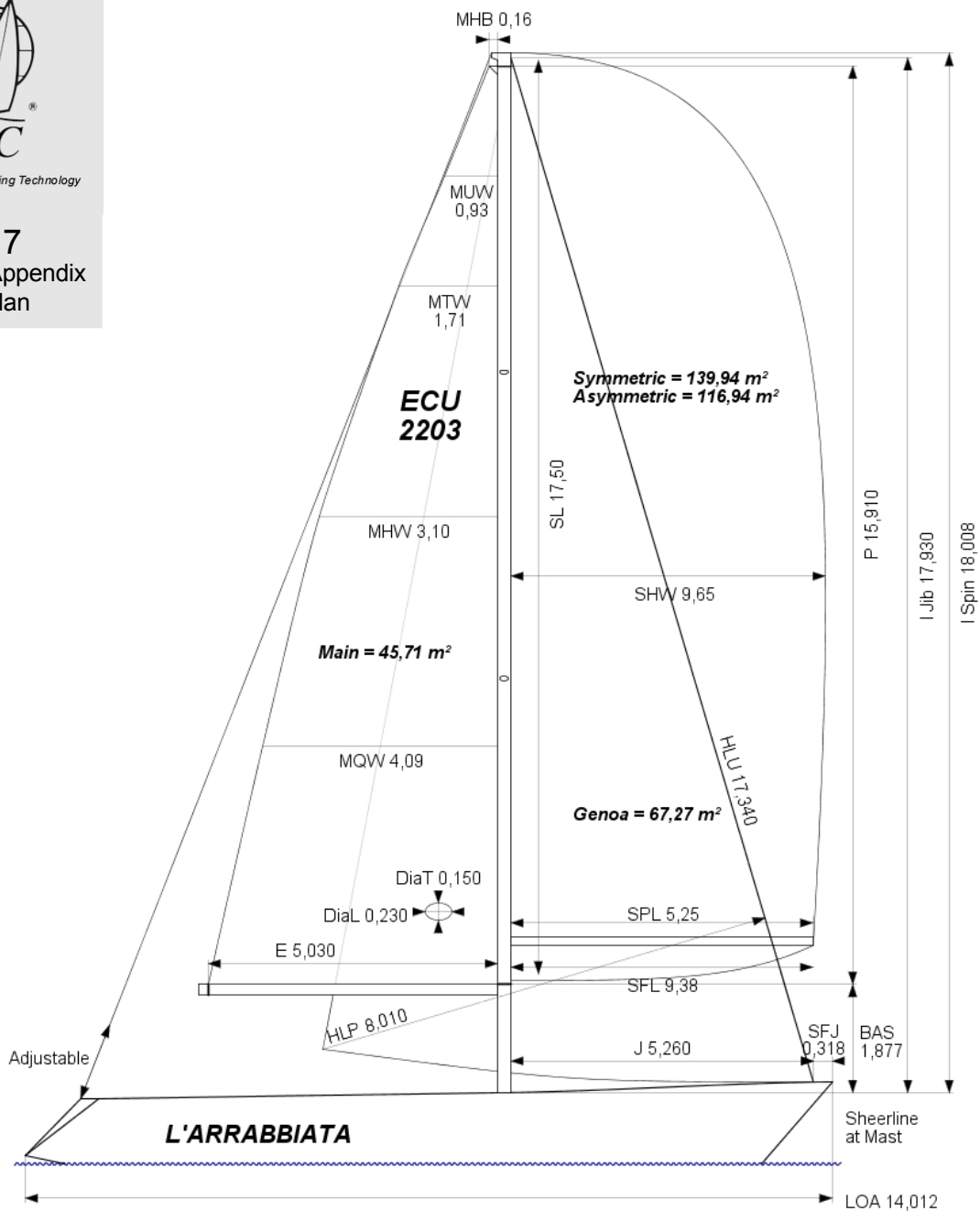
MEASUREMENT INVENTORY				
Measurer PATRICCIO GUTIERREZ P G				
Date 01/10/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
5	Engine	YANMAR	45 HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
6A	Tank	AGUA	ACERO	250,0	4,06	0,20	0-0	A PROA
6B	Tank	FUEL	ACERO	250,0	12,36	0,20	32,0	A POPA
Id	Item	Weight	Distance	VCG Description				
B3	Battery	16,0	11,06	0,00 01 BATERIA MEDIANA EN POPA				
B3	Battery	16,0	11,60	0,00 01 BATERIA MEDIANA A POPA				
B3	Battery	16,0	11,60	0,00 01 BATERIA MEDIANA EN POPA				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0,155	0,93	1,71	3,10	4,09	45,71	A V M	02/07/2017	NORTH	Kevlar	NUEVA

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,09	0,92	1,86	3,75	5,83	8,01	17,34	152%	67,28			A V M	02/07/2017	NORTH	Kevlar	USADA

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	17,50	17,50	17,50	9,65	9,38	139,94	A V M	02/07/2017	NORTH	Nylon	NUEVO

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A1	17,14	16,02	16,58	8,19	9,56	116,94	asym	A V M	02/07/2017	NORTH	Nylon	USADA