



GPH = 498.5 **CDL = 14.204**

BOAT

Class **CARABELLI 53**
Designer **CARABELLI**
Builder **MLBOATS**
Age Date **02/2004**
Series Date **01/2003**
Offset File **forro2B.off**

HULL

Length Overall **16.200 m**
Maximum Beam **4.470 m**
Draft **3.247 m**
Displacement **12,671 kg**
DLR **3.8621**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.087%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.457m**

CREW

Maximum weight **1,130 kg**
Minimum weight **848 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	83.17	84.85
Headsail Luffed	67.40	67.40
Headsail Flying		
Symmetric		
Asymmetric	278.39	278.39

* 1 asymmetric(s) with SHW/SFL < 85%

SAIL LIMITATIONS

Headsails **7**
Spinnakers **5**

STABILITY

Righting Moment **442.1 kg·m**
Stability Index **136.5**

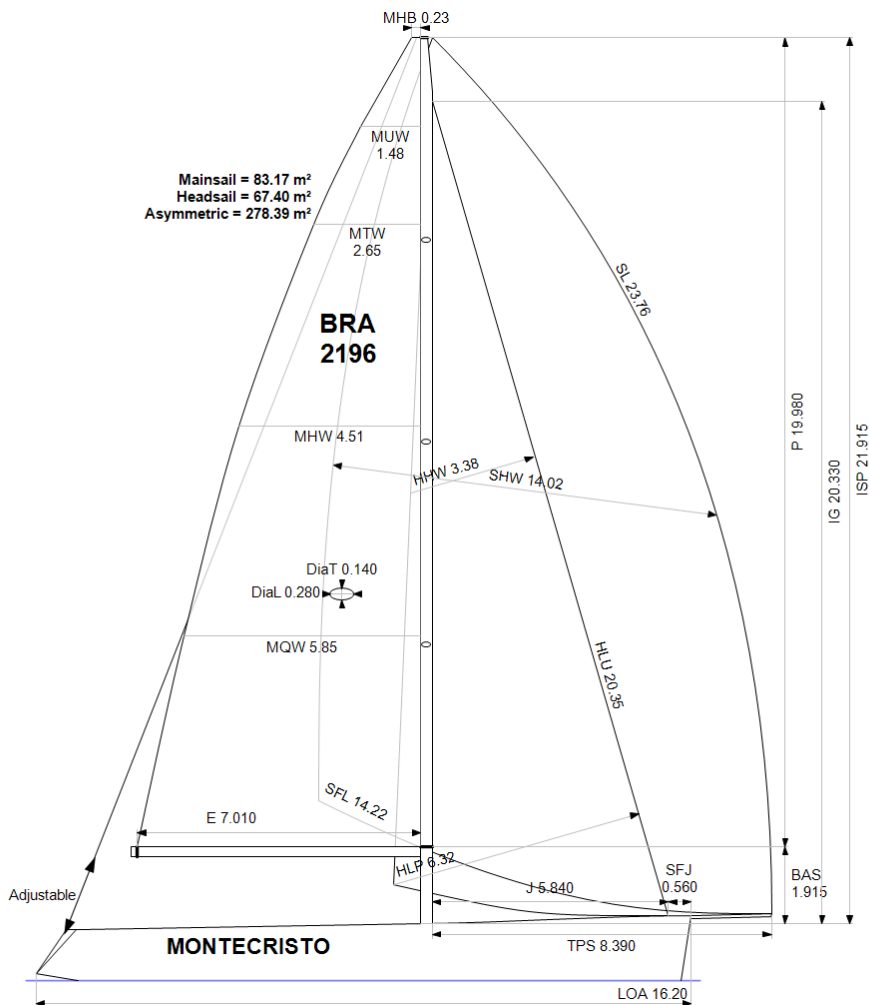
COMMENTS

Crew Main - Jibs - Assimetrics EX SWISTER 16m10.off

OWNER

JULIO CECHETO
AV. MANOEL DOMINGOS PINTO 552
PQ ANHANGUERA, SAO PAULO, SP

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	41.6°	40.5°	39.0°	37.9°	37.5°	36.8°
Beat VMG	4.21	5.18	5.89	6.24	6.42	6.52	6.75
52°	6.44	7.81	8.60	8.89	9.03	9.11	9.30
60°	6.84	8.19	8.85	9.15	9.29	9.39	9.57
75°	7.18	8.46	9.05	9.41	9.71	9.91	10.13
90°	7.39	8.72	9.30	9.68	9.96	10.32	10.89
110°	7.15	8.58	9.28	9.80	10.42	11.02	11.90
120°	6.88	8.47	9.27	9.87	10.35	10.95	12.46
135°	6.10	7.76	8.90	9.52	10.23	11.05	12.80
150°	5.11	6.50	7.85	8.85	9.39	9.88	11.41
Run VMG	4.42	5.63	6.80	7.65	8.13	8.56	9.88
Gybe Angles	142.0°	139.3°	144.3°	151.8°	152.0°	148.5°	144.5°



International
Certificate
2021

Boat
MONTECRISTO
BRA 2196

ABVO ORC BRASIL



Certificate number: 219601

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	855.9	695.2	611.1	577.0	561.0	552.1	533.1
52°	558.9	460.7	418.5	404.8	398.6	395.1	387.2
60°	526.3	439.4	406.6	393.6	387.4	383.4	376.4
75°	501.1	425.3	397.9	382.4	370.7	363.4	355.4
90°	487.1	412.7	387.3	372.0	361.4	348.8	330.7
110°	503.6	419.7	387.8	367.2	345.4	326.6	302.6
120°	523.1	424.9	388.3	364.7	347.8	328.8	288.8
135°	589.9	464.0	404.3	378.1	351.9	325.8	281.2
150°	704.7	554.0	458.4	406.8	383.4	364.2	315.6
Run VMG	813.7	639.7	529.3	470.7	443.0	420.6	364.4
Selected Courses							
Windward / Leeward	834.8	667.4	570.2	523.9	502.0	486.4	448.8
All purpose	635.5	516.1	455.9	427.1	410.1	396.4	369.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	551.2	1.0886
All purpose	442.8	1.3549



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	CARABELLI 53	LOA	16.200	VCGD	-0.250
Measurement	21/06/2009	Max. Beam	4.470	VCGM	-0.309
Measurer	MANUEL BUNGE	Draft	3.247	RM Measured (kg·m)	442.1
HIN		Displacement	12,671	RM Default (kg·m)	422.3
Plan review		Wetted area	47.94	Limit of positive stability(°)	129.8
Hull construction	Cored	IMS L	15.020	Stability Index	136.5
Carbon Rudder	Yes	LSM0	14.859		
Light stanchions		Acc. length	14.527		
Trim tab	No	Sink (kg/mm)	36.14		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.457	EDL	3.998	ST3	0.180
Installation	Strut	PBW		ST1	0.050	ST4	0.112
Twin screw	No			ST2	0.180	ST5	0.270
PIPA	0.0039						

RIG

Forestay tension	Aft	P	19.980	E	7.010
Inner stay	None Fitted	IG	20.330	J	5.840
Carbon mast	No	ISP	21.915	BAS	1.915
Headsail furler	No	MDT1	0.140	FSD	0.042
Mainsail furler	No	MDL1	0.280	SFJ	0.560
Articulated bowsprit	No	MDT2	0.136	SPL	0.000
Non-circular rigging	No	MDL2	0.171	TPS	8.390
Fiber rigging	No	TL	1.360	BD	0.250
Runners/Checkstays	0	MW	0.275	MWT	
Spreaders	3	GO	0.328	MCG	

FLOTATION AND STABILITY

Inclining Test	Boom Inclining	SFFP	0.265	SAFP	15.201	W1	40.0	PD1	23.0	WD	6.901
Flotation Date	17/07/2018	FFM	1.598	FAM	1.220	W2	80.0	PD2	55.0	PLM	2000.00
Measurer	MANUEL BUNGE	FF	1.596	FA	1.228	W3	120.0	PD3	66.0	GSA	52.8
Comment		LCFcl	9.023	LCFsh	9.282	W4	160.0	PD4	87.0	RSA	7389.8
		SG	1.0220	HBI	1.397	LCFD					

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
6.a	H2O PRFV	150.0	6.10	0.30	0-0	+ J
6.b	H2O PRFV	150.0	1.20	0.30	0-0	+ J
2	DIESEL FIBRA	350.0	12.12		100-0	
1	DIESEL FIBRA	350.0	12.12		0-0	
Id	Item Description	Weight	LCG	VCG		
3.a	Battery + J /185 AMPS x2		0.40			
3.b	Battery + J / 185 AMPS x2		0.30			
5	Battery BAT.MOTOR 150 AMP		6.24			
4	Battery BAT.SERVIÇO 200 AMP		0.00			
3	Battery BAT.SERVIÇO 200 AMP		6.36			
2	Battery BAT.SERVIÇO 200 AMP		6.36			
1	Battery BAT.GERADOR 60 AMP		13.52			
9.a	Miscellaneous + J/ BATERIA 45 AMPS		7.50			
9.b	Miscellaneous + J/ EXTINTOR	1.0	4.90			
9.c	Miscellaneous + J/ EXTINTOR	1.0	6.60			
9.d	Miscellaneous +J / COLETES x11	4.0	6.25			
4	Miscellaneous DESALINADOR		8.12			
3	Miscellaneous CARREGADOR BATERIAS		7.06			
2	Miscellaneous A/C		5.83			
1	Miscellaneous GERADOR MTU		12.72			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
M	0.23	1.48	2.65	4.51	5.85	83.17	Manolo Bunge	11/05/2021	Quantum Sails	Carbon	2018

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
J 1,5	0.12	0.92	1.82	3.38	4.92	6.32	20.35	Yes	No		67.40	Manolo Bunge	11/05/2021	Quantum Sails	Carbon	2021
G18	0.10	0.96	1.81	3.37	4.84	6.28	20.34	Yes	No		66.85				Unknown	
G1						6.24	20.65	No	No		65.59	J.Labandeira		SOBSTAD	Kevlar	
J4	0.10	0.76	1.67	3.22	4.77	6.28	18.91	Yes	No		60.35	Manolo Bunge	11/05/2021	Quantum Sails	Carbon	2021

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
A1,5	25.26	22.26	23.76	14.02	14.22	99%	278.39	FREITAS	17/06/2017		Unknown	
A1	24.53	21.42	22.98	13.04	13.10	100%	249.89	Manolo Bunge	11/05/2020	Quantum Sails	Nylon	2017
A2	23.80	20.92	22.36	12.70	12.38	103%	235.45	Manolo Bunge	11/05/2021	Quantum Sails	Nylon	2015
A4	24.30	20.02	22.16	12.81	12.28	104%	234.60	Manuel Bunge	21/06/2009	ElvsSobs	Nylon	
A3	20.76	18.96	19.86	10.30	11.25	92%	173.61	Manolo Bunge	11/05/2021	Quantum Sails	Nylon	2015
Code0	21.67	21.60	21.64	7.43	9.64	77%	141.93	M.BUNGE	25/04/2008	NORTH	Kevlar	checar ASF