


BOAT
Name MARGARITAESTALINDALA Sail Nr ITA-6453

GPH
664,8

HULL
Length Overall 11,982m
Maximum Beam 3,718m
Displacement 8.626kg
Draft 2,035m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,371%
Fwd Accommodation Yes
Hull Construction Solid
Carbon Rudder No
Crew Arm Extension
IMSL 9,339m VCGD -0,133m Sink 19,71kg/mm
RL 6,933m VCGM -0,032m WS 28,39m²
LSM0 9,311m Displacement/Length ratio 10,6861



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2016
ORC International
Certificate

GENERAL
Class Proto Madera
Designer Sant Germany
Builder Sant Germany
Series 01/1972
Age 07/1973
Age Allowance 0,488%
Offset File ITA6453.off - 05/02/2015 9:29:08
Measurement by Tacha - 16/07/2010

Rating Office
R.F.E.V.
Luis de salazar,9
28002 Madrid



SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	647,5			727,4		
Time On Time	0,9267			0,9280		
Performance Line	PLT	PLD		PLT	PLD	
	0,942	169,1		0,791	206,7	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8834	1,1472	1,2872	0,6814	0,9181	1,0703

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	1142,0	960,4	860,3	801,9	770,4	753,2	744,4
52°	737,7	626,0	557,2	528,1	516,2	509,9	505,0
60°	692,9	586,1	530,4	508,6	498,4	492,7	487,7
75°	655,4	554,2	512,8	493,6	480,5	470,9	462,7
90°	657,0	555,1	513,4	493,5	478,5	465,5	445,7
110°	685,4	561,7	508,3	483,7	470,1	461,5	446,4
120°	702,1	574,6	513,8	486,7	465,0	447,8	431,9
135°	765,6	626,4	539,3	502,0	479,4	458,9	422,9
150°	896,9	714,2	605,6	535,0	502,1	481,1	443,5
Run VMG	1035,7	824,6	698,9	611,6	552,6	512,9	471,0

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VPP Ver. 2016 1.00
Valid until 31/12/2016

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1088,8	892,5	779,6	706,8	661,5	633,0	607,7
Circular Random	916,3	739,8	644,9	589,7	556,0	534,6	510,0
Ocean for PCS	904,4	721,2	620,1	560,0	522,7	498,2	466,9
Non Spinnaker	967,0	775,9	671,8	610,2	572,1	547,5	519,2

Crew Weight
Declared 640kg
Default* 622kg
Non Manual Pwr No

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	44,6°	43,1°	44,3°	44,0°	43,0°	42,3°	42,4°
Beat VMG	3,15	3,75	4,18	4,49	4,67	4,78	4,84
52°	4,88	5,75	6,46	6,82	6,97	7,06	7,13
60°	5,20	6,14	6,79	7,08	7,22	7,31	7,38
75°	5,49	6,50	7,02	7,29	7,49	7,64	7,78
90°	5,48	6,49	7,01	7,30	7,52	7,73	8,08
110°	5,25	6,41	7,08	7,44	7,66	7,80	8,06
120°	5,13	6,27	7,01	7,40	7,74	8,04	8,33
135°	4,70	5,75	6,68	7,17	7,51	7,85	8,51
150°	4,01	5,04	5,94	6,73	7,17	7,48	8,12
Run VMG	3,48	4,37	5,15	5,89	6,51	7,02	7,64
Gybe Angles	146,7°	150,9°	150,7°	155,7°	173,6°	180,0°	180,0°

Special Scoring
ToD ToT
Double H.GPH 668,8 0,8972
Double H.OSN 652,7 0,9193
Non Spin GPH 693,1 0,8657
Non Spin OSN 674,8 0,8892
N/S Perf. Line 95,3 0,771

Sails Limitations
Headsails 1 Spinnakers 3
Dacron Sails

Class Division Length
CDL = 8,137

Storm Sails Areas
Heavy Weather Jib 37,07
Storm Jib (JL=10,77) 13,73
Storm Trysail 10,14

Owner

BOAT	
Name MARGARITAESTALIN	Sail Nr ITA-6453
File ITA6453_C.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 15/07/2010		SG 1,0260	
FFM 1,314	FF 1,357	SFFP 0,800	
FAM 0,995	FA 0,975	SAFP 11,670	
W1 70,800	PD1 472,3	WD 12,400	
W2 70,800	PD2 480,3	GSA 1,0	
W3 70,800	PD3 481,1	RSA 1,0	
W4 70,800	PD4 478,5	PLM 9000,0	
LCF from stem on CL / on sheer		6,751 / 6,983	
Maximum beam station from stem		7,320	
RM Measured		144,6kg·m	
RM Default		140,9kg·m	
Limit of positive stability / Stab.Index		120,6° / 126,2	
Freeboard at mast at 5,230		1,148	


RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 15,250	E 3,800	MDT1 0,160	MW 0,220
IG 16,570	J 5,230	MDL1 0,260	GO 0,220
ISP 16,570	SFJ	MDT2 0,160	BD 0,130
BAS 1,320	SPL 5,230	MDL2 0,220	MWT
FSP 0,072	TPS	TL 1,200	MCG



2016
Measurements
Datasheet

Certificate

Number **645301**
ORC Ref **ESP00015687**
Issued On **26/01/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**



MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,440		
Type Solid 3 blades	PBW		
Twin Screw No	PIPA 0,0283		
PSA 23,690	PHL 0,205	ST3 0,092	ESL 0,980
PSD 0,035	ST1 0,035	ST4 0,078	
PHD 0,140	ST2 0,092	ST5 0,195	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,195	0,00	1,33	2,30	3,08	33,72	34,02	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16,52	16,52	16,52	9,42	9,36	129,52	SL · (SFL + 4·SHW) / 6		
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
0,07	0,90	1,77	3,68	5,86	7,72	16,73	63,66			11/01/2011	Dacron	

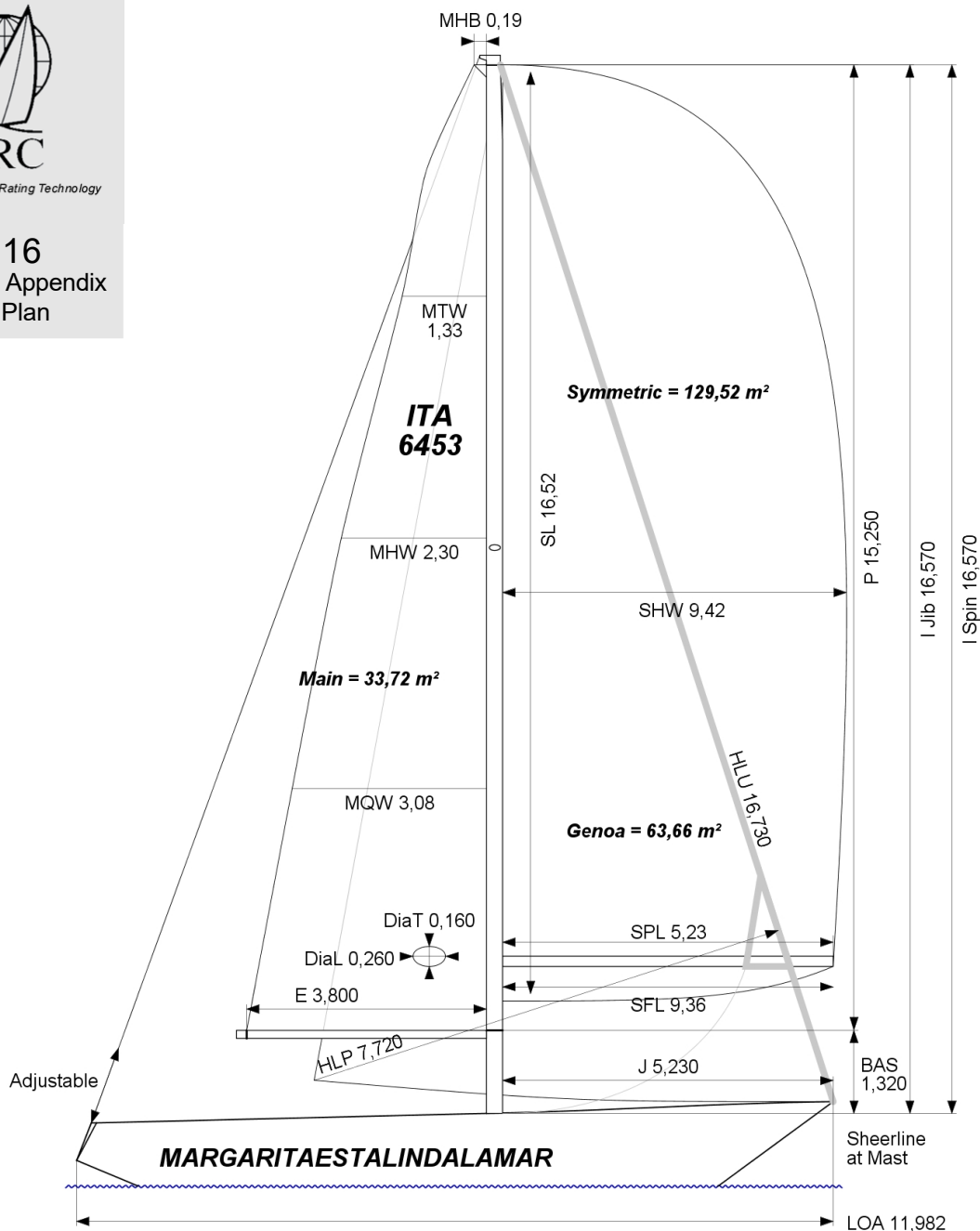
MEASUREMENT INVENTORY				
Measurer Tacha Montaner ESP-222				
Date 15/07/2010				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
+	Anchor	80,0	1,30	ANCLA+
+	Tools	40,0	5,30	Caja
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
+	Deck-Gear	20,0	a-pie-de-pate	

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
1	Tank	gasoil			6,58	70,0
1	Tank	H2O			6,58	0,0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
2	Battery		6,58	2 batt		
1	Misc		1,30	Molinete		



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,195		1,33	2,30	3,08	33,55	Eva	27/09/2011		Dacron	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,07	0,90	1,77	3,68	5,86	7,72	16,73	148%	63,66			Eva	11/01/2011		Dacron	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	16,52	16,52	16,52	9,42	9,36	129,52	Eva	11/01/2011		Unknown	

ASYMMETRIC SPINNAKERS

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