

BOAT
Name ROPIT IV
Sail Nr ITA-14478

GPH
606,2

HULL					
Length Overall	12,016 m				
Maximum Beam	3,786 m				
Displacement	7.924 kg				
Draft	2,448 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0,214%				
Fwd Accommodation	Yes				
Hull Construction	Solid				
Carbon Rudder	No				
Crew Arm Extension					
IMS L	11,136	VCGD	0,317	VCGM	0,158
Sink	23,65 kg/m m		Wetted Area	31,51 m ²	

GENERAL
Class GRAND SOLEIL 40 C
Designer PAPERINI
Builder DEL PARDO
Series 12/2000
Age 05/2003
Age Allowance 0,780%
Offset File GRS40CRO.OFF - 25/1/2014 12:33:54
Measurement by BELTRAN - 18/10/2010



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	582,8			661,9		
Time On Time	1,0294			1,0198		
Performance Line	PLT 0,849	PLD 91,8		PLT 0,809	PLD 166,9	
Triple Number	Low 0,8996	Medium 1,1979	High 1,4458	Low 0,7270	Medium 1,0132	High 1,1914

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat VMG	1052,5	859,1	748,3	699,9	671,8	654,6	643,6
52°	681,1	561,2	507,1	482,6	470,9	463,6	455,7
60°	637,6	534,9	489,0	465,0	454,5	447,8	440,9
75°	602,6	515,0	474,3	452,4	434,9	426,1	417,7
90°	579,6	495,9	459,5	443,9	434,2	419,9	399,0
110°	602,7	507,4	462,1	434,5	413,0	396,9	384,7
120°	629,7	518,9	474,4	446,3	422,8	401,8	370,4
135°	728,4	581,6	508,2	469,7	444,0	422,2	383,1
150°	874,4	686,5	571,7	509,6	472,8	447,6	407,7
Run VMG	1009,7	792,7	660,1	578,6	524,5	486,8	439,1

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1031,1	825,9	704,2	639,3	598,2	570,7	541,4
Circular Random	844,4	677,7	587,5	534,7	502,0	480,6	454,0
Ocean for PCS	901,9	708,7	600,7	534,9	491,8	461,4	418,5
Non Spinnaker	910,5	723,4	620,5	559,2	520,7	495,5	464,9

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat Angles	44,1°	43,2°	41,4°	39,5°	38,0°	37,2°	37,6°
Beat VMG	3,42	4,19	4,81	5,14	5,36	5,50	5,59
52°	5,29	6,42	7,10	7,46	7,65	7,77	7,90
60°	5,65	6,73	7,36	7,74	7,92	8,04	8,17
75°	5,97	6,99	7,59	7,96	8,28	8,45	8,62
90°	6,21	7,26	7,83	8,11	8,29	8,57	9,02
110°	5,97	7,10	7,79	8,28	8,72	9,07	9,36
120°	5,72	6,94	7,59	8,07	8,51	8,96	9,72
135°	4,94	6,19	7,08	7,66	8,11	8,53	9,40
150°	4,12	5,24	6,30	7,06	7,61	8,04	8,83
Run VMG	3,57	4,54	5,45	6,22	6,86	7,40	8,20
Gybe Angles	141,8°	146,9°	150,2°	160,4°	167,0°	171,5°	173,9°

Rating Office

Offshore
Racing
Congress



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Certificate
Number 144781
ORC Ref ESP00002194
Issued On 12/1/2012
VPP Ver. 2012 0.98
Valid until 31/12/2012

Crew Weight
Declared 700 kg
Default* 789 kg
Non Manual Pwr No

Special Scoring	ToD	ToT
D. Hand OSN	586,2	1,0236
Non Spin. OSN	616,7	0,9356
N/S Perf. Line	55,1	0,747

Sails Limitations		
Genoas 0	Jibs 5	Spinnakers 4
Spinnaker configuration Asymmetric-Pole		

Storm Sails Areas	
Heavy Weather Jib	32,52
Storm Jib (JL=10,09)	12,04
Storm Try sail	13,72

Owner

BOAT		
Name	ROPIT IV	Sail Nr ITA-14478
File	(0)	Data in meters/kilograms

RIG				
Forestay Tension	Aft	Spreaders	3	
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	14,590	E	5,374	MDT1 0,125 TL
IG	15,460	J	4,600	MDL1 0,220 MWT
ISP	15,550	SFJ		MDT2 0,125 MCG
SPS		SPL	4,470	MDL2 0,220 CPW 2,445
BAS	1,680	TPS		MW 0,220 BD 0,125
BAL	0,152	FSP	0,073	GO 0,238 BWT

MIZZEN RIG AND SAILS				
N/A				

COMMENTS				

INCLINING TEST AND FREEBOARDS				
Inclining Test Current Inclining				
Flotation date	18/10/2010	SG	1,0260	
FFM	1,426	FF	1,426	SFFP 0,540
FAM	1,021	FA	1,021	SAFP 11,255
W1	93,800	PD1	511,4	WD 11,956
W2	93,800	PD2	512,0	GSA 1,0
W3	93,800	PD3	510,8	RSA 1,0
W4	93,800	PD4	511,2	PLM 9000,0
LCF from stem on CL / on sheer				6,777 / 0,000
Maximum beam station from stem				8,051
RM Measured / Default				172,7 / 192,0
Limit of positive stability / Stab.Index				109,3° / 113,6
Freeboard at mast at 4,600				1,205

PROPELLER				
Installation	Strut	PRD	0,404	
Type	Folding	PBW	0,112	
Twin Screw	No	PIPA	0,0038	
ST1	0,049	ST3	0,180	ST5 0,340
ST2	0,180	ST4	0,111	EDL 2,512

MOVEABLE BALLAST				
N/A				

CENTERBOARD				
N/A				



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IMS Measurement

Certificate

Certificate

Number **144781**

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Issued On **12/1/2012**

VPP Ver. **2012 0.98**

Valid until **31/12/2012**



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SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL			Area	Area (r)	Formula
	0,780	1,47	2,28	3,58	4,59			49,23	50,55	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0,08	0,67	1,35	2,61	3,76	15,34	4,74	38,52		$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF							
	15,83	8,42	8,10					110,23		$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric	SLU	SLE	ASL	AMG	ASF					
	15,50	14,50	15,00	8,21	8,75			103,97		$ASL \cdot (ASF + 4 \cdot AMG) / 6$
Code Zero										
Not Available										

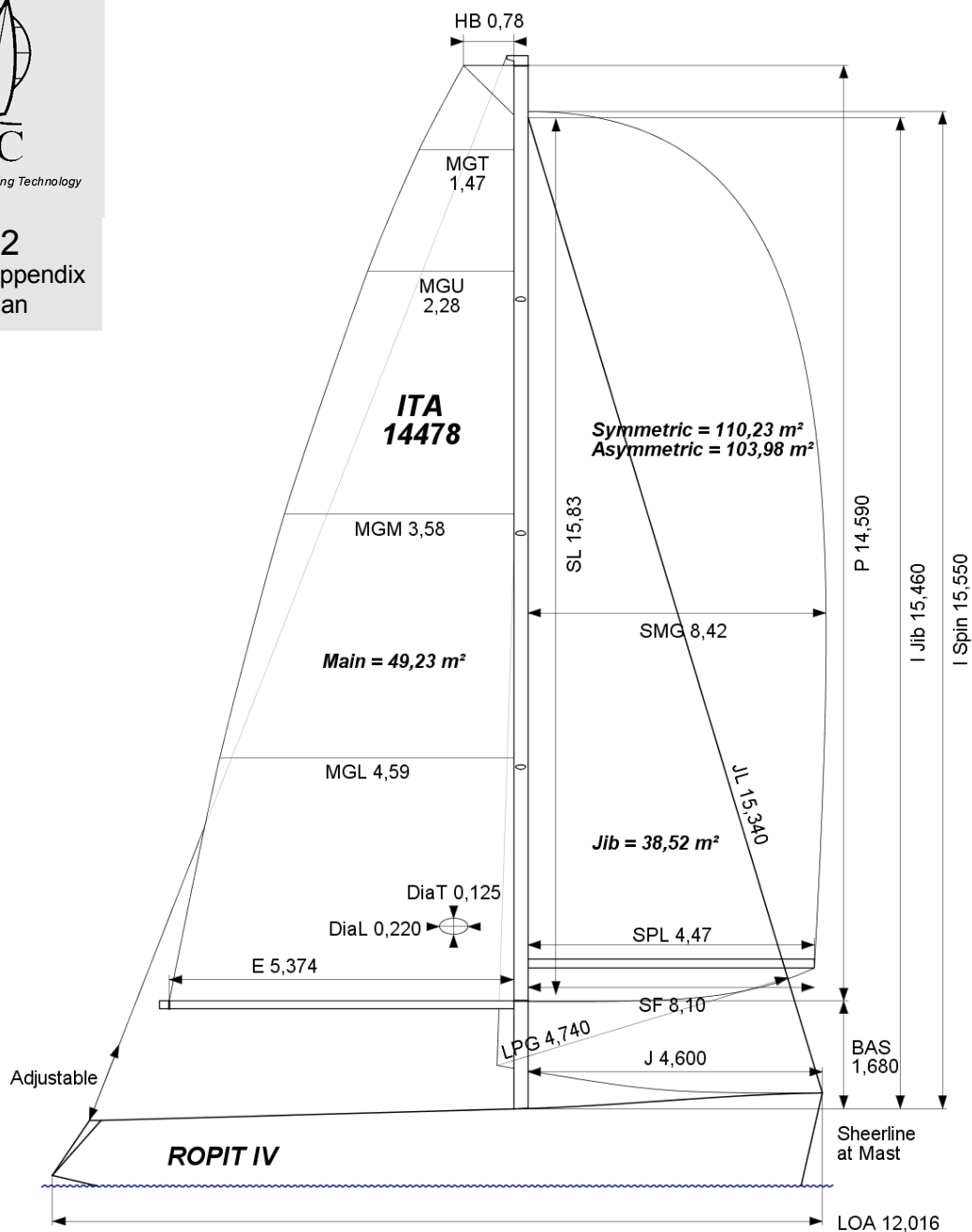
MEASUREMENT INVENTORY				
Measurer jj beltran				
Date 18/10/2010				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Anchor	18,0	5,70	ancla
1	Chain	40,0	5,70	cadena
1	Tools	8,0	9,40	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANMAR	40 cv	
<i>Id</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</i>	<i>Description</i>	
1	Tank	Gasoil	INOX	180,0	9,40		0,0		
2	Tank	Agua	PVC	160,0	9,40		0,0		
3	Tank	agua	pvc	210,0	6,70		0,0		
4	Tank	tanque			9,20			tanque aguas sucias	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
1	Battery	18,8	6,60	bateria					
2	Battery	29,8	6,60	bateria					
3	Battery	29,8	6,60	bateria					
4	Battery	29,8	6,60	bateria					



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SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,780	1,47	2,28	3,58	4,59	49,23	JJBeltran				

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,08	0,67	1,35	2,61	3,76	4,74	15,34	103%	38,53	JJBeltran	13/04/2011			

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	15,83	8,42	8,10	110,23	JJBeltran			Unknown	
2	15,64	8,12	7,90	105,26	JJBeltran				

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	15,50	14,50	15,00	8,21	8,75	103,98	asym	JJBeltran			Unknown	