

BOAT
Name PINYOL VERMELL
Sail Nr ESP-5951

GPH
637,3

HULL			
Length Overall	11,068 m		
Maximum Beam	3,490 m		
Displacement	6.307 kg		
Draft	2,219 m		
IMS Reg. Division	Cruiser/Racer		
Dynamic Allowance	0,287%		
Fwd Accommodation	Yes		
Hull Construction	Solid		
Carbon Rudder	No		
Crew Arm Extension			
IMS L	10,009	VCGD	0,128
Sink	19,75 kg/mm	VCGM	0,116
		Wetted Area	26,58 m ²

GENERAL
Class Sun Fast 36 (Mod)
Designer P.BRIAND
Builder JEANNEAU
Series 01/1993
Age 01/1993
Age Allowance 0,975%
Offset File E5951C.OFF - 25/1/2014 13:24:08
Measurement by Tacha Montaner - 03/02/2010



World Leader in Rating Technology

2012
ORC International
Certificate

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	613,3			697,2		
Time On Time	0,9783			0,9681		
Performance Line	PLT	PLD		PLT	PLD	
	0,835	110,5		0,808	196,0	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8635	1,1360	1,3613	0,6950	0,9618	1,1192

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1093,7	884,7	786,9	744,2	718,8	703,3	695,0
52°	702,1	580,1	533,6	513,4	502,5	495,8	488,6
60°	632,7	543,4	511,4	494,6	485,2	479,0	472,4
75°	575,7	512,6	484,4	472,4	463,4	456,1	448,5
90°	568,6	511,7	483,0	462,3	446,2	439,2	429,7
110°	633,4	539,5	495,1	467,0	445,0	430,5	410,8
120°	673,3	555,1	505,1	475,5	451,9	431,7	403,7
135°	772,3	610,9	538,2	499,1	472,7	450,5	412,6
150°	929,1	721,9	601,7	538,0	500,7	475,0	434,2
Run VMG	1072,8	833,6	693,5	605,8	549,0	510,6	462,4

Selected Courses							
Windward / Leeward	1083,3	859,1	740,2	675,0	633,9	607,0	578,7
Circular Random	880,3	709,3	617,9	565,2	533,1	512,4	487,2
Ocean for PCS	943,4	743,0	632,1	565,1	521,8	491,6	450,2
Non Spinnaker	945,8	753,2	648,5	587,2	549,4	525,0	495,9

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	44,5°	43,7°	41,4°	39,5°	38,6°	37,8°	38,4°
Beat VMG	3,29	4,07	4,57	4,84	5,01	5,12	5,18
52°	5,13	6,21	6,75	7,01	7,16	7,26	7,37
60°	5,69	6,62	7,04	7,28	7,42	7,52	7,62
75°	6,25	7,02	7,43	7,62	7,77	7,89	8,03
90°	6,33	7,04	7,45	7,79	8,07	8,20	8,38
110°	5,68	6,67	7,27	7,71	8,09	8,36	8,76
120°	5,35	6,48	7,13	7,57	7,97	8,34	8,92
135°	4,66	5,89	6,69	7,21	7,62	7,99	8,73
150°	3,87	4,99	5,98	6,69	7,19	7,58	8,29
Run VMG	3,36	4,32	5,19	5,94	6,56	7,05	7,78
Gybe Angles	142,3°	146,4°	151,5°	163,4°	171,4°	175,0°	176,5°

Rating Office

Offshore
Racing
Congress



World Leader in Rating Technology

Certificate
Number 595102
ORC Ref ESP00003228
Issued On 12/4/2012
VPP Ver. 2012 1.00
Valid until 31/12/2012

Crew Weight
Declared 240 kg
Default* 686 kg
Non Manual Pwr No

Special Scoring
ToD ToT
D. Hand OSN 614,0 0,9771
Non Spin. OSN 643,5 0,8953
N/S Perf. Line 72,8 0,740

Sails Limitations		
Genoas 0	Jibs 4	Spinnakers 3
Spinnaker configuration Symmetric + Code 0		

Storm Sails Areas
Heavy Weather Jib 25,98
Storm Jib (JL=9,02) 9,62
Storm Trysail 11,11

Owner

BOAT			
Name	PINYOL VERMELL	Sail Nr	ESP-5951
File	(0)	Data in	meters/kilograms

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	13,600	E	4,670
IG	13,750	J	4,070
ISP	13,780	SFJ	0,100
SPS	3,220	SPL	4,150
BAS	1,780	TPS	4,900
BAL	0,152	FSP	0,060
MDT1	0,110	MDL1	0,204
TL	1,680	MWT	171,90
MDT2	0,108	MCG	4,620
MDL2	0,158	CPW	2,150
MW	0,204	BD	0,160
GO	0,240	BWT	

MIZZEN RIG AND SAILS			
N/A			

COMMENTS			

INCLINING TEST AND FREEBOARDS			
Inclining Test	Current Inclining		
Flotation date	03/02/2010	SG	1,0250
FFM	1,339	FF	1,339
FAM	1,049	FA	1,049
SFFP	0,363	SAFP	10,045
W1	77,300	PD1	522,2
W2	77,300	PD2	521,3
W3	77,300	PD3	521,3
W4	77,300	PD4	520,4
WD	10,840	GSA	1,0
RSA	1,0	PLM	9000,0
LCF from stem on CL / on sheer	6,096 / 0,000		
Maximum beam station from stem	7,000		
RM Measured / Default	126,6 / 138,5		
Limit of positive stability / Stab.Index	112,5° / 115,8		
Freeboard at mast at 4,170	1,153		

PROPELLER			
Installation	Shaft exposed	PRD	0,380
Type	Folding	PBW	
Twin Screw	No	PIPA	0,0044
PSA	16,050	PHL	0,140
PSD	0,025	ST1	0,020
PHD	0,068	ST2	0,090
ST3	0,070	ST4	0,050
ST5	0,210	ESL	0,990

MOVEABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL			Area	Area (r)	Formula
	0,190	1,07	1,89	3,15	4,02			39,12	40,03	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0,07	0,87	1,51	2,55	3,52	13,72	4,39	33,42		$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF							
	13,56	7,22	7,00					81,09		$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric										
Not Available										
Code Zero	SLU	SLE	ASL	AMG	ASF			Area (r)		
	13,75	12,78	13,27	4,35	6,57			52,99	57,08	$ASL \cdot (ASF + 4 \cdot AMG) / 6$

MEASUREMENT INVENTORY				
Measurer	Tacha Montaner E-222			
Date	03/02/2010			
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Anchor	8,0	5,58	Ancla
1	Anchor	15,0	5,83	Ancla
1	Chain	30,0	5,58	Cadena
1	Tools	11,0	5,38	Caja
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Yanmar 27 H.P.	3GM30	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
1	Deck Gear	18,0	Cabulleria	

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	H2O	Plast	120,0	7,93		0,0	
1	Tank	Gasoil	Inox	90,0	8,10		30,0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
3	Battery	45,0	7,63	Baterias				
1	Misc	4,0	7,13	Radio Baliza				
1	Misc	15,0	4,83	Seguridad				



World Leader in Rating Technology

2012

IMS Measurement Certificate

Certificate

Number **595102**

ORC Ref **ESP00003228**

Issued On **12/4/2012**

VPP Ver. **2012 1.00**

Valid until **31/12/2012**

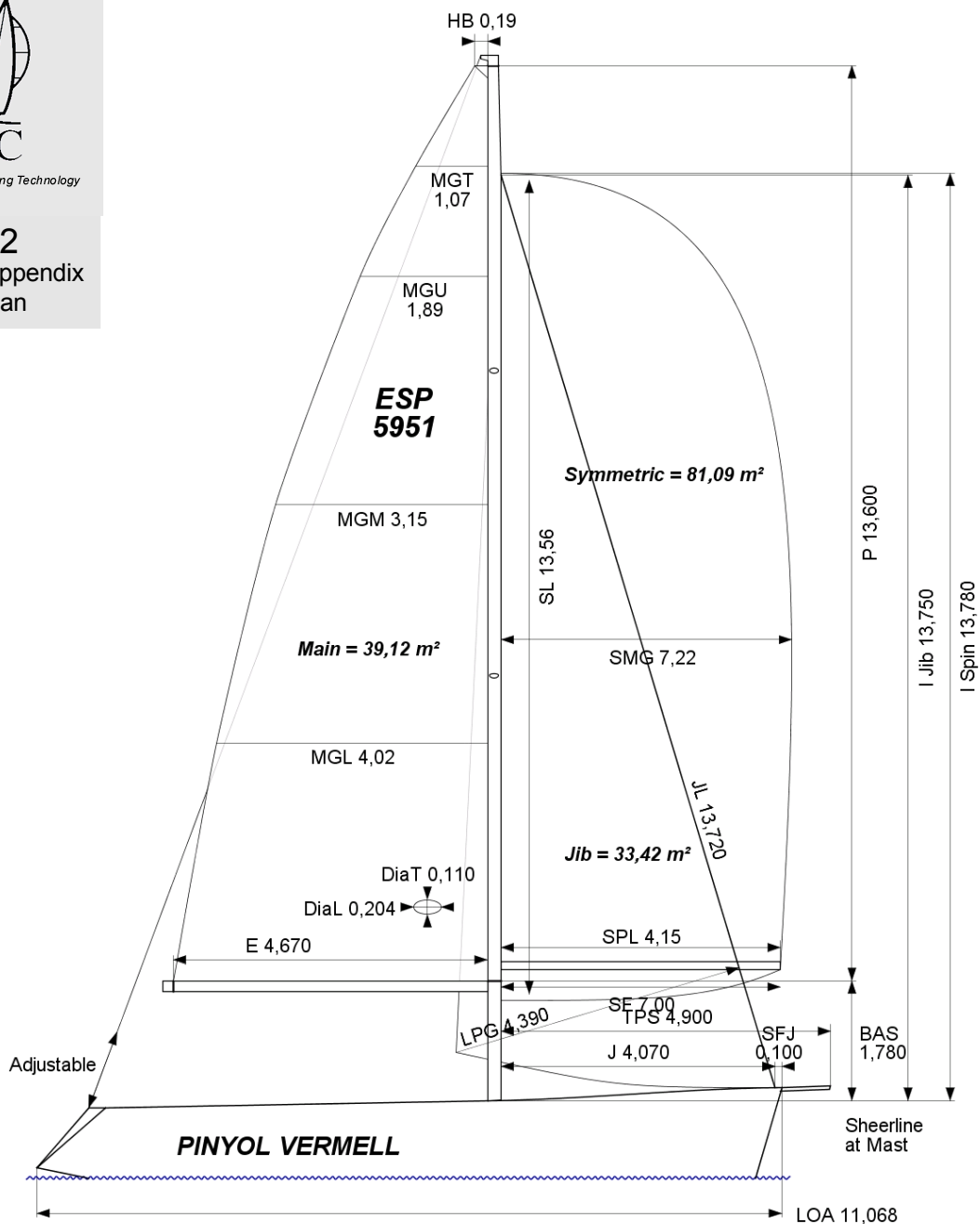


World Leader In Rating Technology



World Leader in Rating Technology

2012 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0,190	1,07	1,89	3,15	4,02	39,12	Tacha	22/03/2011	Bon vent	Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
L	0,07	0,87	1,51	2,55	3,52	4,39	13,72	108%	33,42	Tacha	27/02/2012	Olympic	Unknown	
H	0,07	0,86	1,49	2,50	3,43	4,35	13,70	107%	32,79	Tacha	27/02/2012	Olymoic	Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	13,56	7,22	7,00	81,09					

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A1	13,75	12,78	13,27	4,35	6,57	52,99	code0	Tacha	27/03/2012		Unknown	