

BOAT
Name PAICHE
Sail Nr PER-8888

GPH
570.8

HULL					
Length Overall	12.690 m				
Maximum Beam	3.698 m				
Displacement	5,911 kg				
Draft	2.394 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0.000%				
Fwd Accommodation	Yes				
Hull Construction	Cored				
Carbon Rudder	Yes				
Crew Arm Extension					
IMS L	10.918	VCGD	-0.116	VCGM	-0.141
Sink	23.09 kg/mm	Wetted Area	29.58 m²		



World Leader in Rating Technology


2011
ORC International
Certificate

GENERAL
Class GRAND SOLEIL 42R05
Designer BOTIN-CARKEEK
Builder DEL PARDO
Series 04/2005
Age 05/2005
Age Allowance 0.390%
Offset File E8888-NK.off - 18/10/2008 09:03:48
Measurement by C HERMAN - 15/10/2009

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	570.8			634.5		
Time On Time	1.0512			1.0638		
Performance Line	PLT 0.884	PLD 78.7		PLT 0.922	PLD 216.7	
Triple Number	Low 1.0197	Medium 1.3394	High 1.5224	Low 0.7793	Medium 1.0560	High 1.2256

Rating Office

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Oceanicos del Peru



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	966.7	795.9	714.3	675.6	651.7	647.5	656.5
52°	630.8	523.7	474.6	455.4	444.8	439.9	441.9
60°	591.3	496.5	450.7	435.3	425.9	420.2	420.8
75°	559.3	478.3	433.2	410.7	400.8	394.1	388.1
90°	564.6	472.6	433.2	409.4	386.1	373.2	361.5
110°	580.4	480.5	430.1	396.5	378.0	363.5	342.2
120°	605.6	498.4	442.1	408.1	379.3	348.8	322.2
135°	683.6	552.6	480.1	437.9	408.3	381.8	326.0
150°	819.3	654.7	549.9	487.0	443.8	415.0	366.4
Run VMG	946.1	756.0	635.0	558.4	500.4	459.7	405.7

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Selected Courses							
Windward / Leeward	975.4	788.0	685.3	624.0	583.9	560.3	534.8
Circular Random	792.9	637.6	553.5	503.9	473.1	453.0	429.1
Ocean for PCS	845.5	665.9	564.7	501.6	459.2	428.4	384.1
Non Spinnaker	844.1	674.1	580.8	525.0	489.8	466.8	439.6

Crew Weight	
Declared	791 kg
Default*	795 kg
Non Manual Power	No

Special Scoring	
ToD	ToT
Double Handed	577.5 1.0389
Non Spinnaker	599.6 1.0007
N/S Perf. Line	53.6 0.800

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	43.3°	43.7°	41.0°	40.4°	40.2°	40.4°	41.3°
Beat VMG	3.72	4.52	5.04	5.33	5.52	5.56	5.48
52°	5.71	6.87	7.59	7.90	8.09	8.18	8.15
60°	6.09	7.25	7.99	8.27	8.45	8.57	8.56
75°	6.44	7.53	8.31	8.77	8.98	9.13	9.28
90°	6.38	7.62	8.31	8.79	9.32	9.65	9.96
110°	6.20	7.49	8.37	9.08	9.52	9.90	10.52
120°	5.94	7.22	8.14	8.82	9.49	10.32	11.17
135°	5.27	6.51	7.50	8.22	8.82	9.43	11.04
150°	4.39	5.50	6.55	7.39	8.11	8.67	9.82
Run VMG	3.81	4.76	5.67	6.45	7.19	7.83	8.87
Gybe Angles	141.8°	146.6°	150.8°	154.9°	162.3°	168.8°	171.6°

Sails Limitations		
Genoa	Jibs	Spinnakers
0	5	4
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	33.95
Storm Jib (JL=10.31)	12.57
Storm Triesail	17.47

Owner

Miguel Caillaux C.

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

Signature

BOAT	
Name PACHE File PER8888.dxt	Sail Nr PER-8888 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 05/01/2012		SG 1.0260
FFM 1.442	FF 1.442	SFFP 0.150
FAM 1.136	FA 1.136	SAFP 12.063
W1 107.50	PD1 514.4	WD 12.290
W2 107.50	PD2 514.4	GSA 1.0
W3 107.50	PD3 514.4	RSA 1.0
W4 107.50	PD4 514.4	PLM 9000.0
Maximum beam station from stem		7.550
RM Measured / Default		202.3 / 184.9
Limit of positive stability		125.5°
Stability Index		126.1
Freeboard at mast at 4.860		1.239



2011
IMS Measurement
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RIG				
Forestay Tension Aft	Spreaders 2		Runners 0	
Inner Forestay None Fitted	Carbon Mast Yes		Jumper Struts None	
Taper Hollows No	Fiber Rigging No		Jib Furler No	
Lenticular Rigging No	Articulated Bowsprit No		Main Furler No	
Without Backstay No				
P 16.500	E 6.050	MDT1 0.139	TL 2.430	
IG 15.825	J 4.740	MDL1 0.251	MWT 213.60	
ISP 15.855	SFJ 0.120	MDT2 0.081	MCG 5.410	
SPS 2.900	SPL 4.740	MDL2 0.121	CPW	
BAS 1.695	TPS	MW 0.251	BD 0.266	
BAL 0.152	FSP 0.064	GO 0.261	BWT	

PROPELLER		
Installation Strut	PRD 0.474	
Type Folding	PBW	
Twin Screw No	PIPA 0.0037	
ST1 0.048	ST3	ST5 0.300
ST2	ST4 0.111	EDL 0.980

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MIZZEN RIG AND SAILS	
N/A	

WATER BALLAST		
N/A		

COMMENTS	
ex BANCO EDWARD CHI-8888	

CENTERBOARD		
N/A		



SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0.197	1.40	2.44	3.96	5.03	26.30	60.20	61.70	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0.08	0.74	1.41	2.64	3.84	15.94	4.97	41.31	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF							
	15.62	8.70	8.51				112.75		SL · (SF + 4·SMG) / 6	

MEASUREMENT INVENTORY			
Measurer G LIZALYARLEQUE			
Date 05/01/2012			
Comment nueva medicion			
Id	Item	Weight	Distanc Description
2	Anchor	25.0	5.36 ancla + 50m cabo
4	Tools	5.0	5.36
Id	Item	Maker	Model
5	Engine	YANMAR	29.4HP
Id	Item	Weight	Description

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
6C	Liquid Tank	AGUA	PLASTIC	100.0	5.66	0.0 tanque plástico
6B	Liquid Tank	AGUA	PLASTIC	100.0	5.26	0.0 tanque plástico
6A	Liquid Tank	FUEL	ACERO	100.0	8.66	0.0 tanque acero
Id	Item	Weight	Distanc Description			
1E	Ballast	8.16	4 barras crujia			
1D	Ballast	14.02	8 barras babor 11 estribor			
1C	Ballast	6.76	17 barras babor 18 barras estribor			
1B	Ballast	5.66	12 barras babor 12 barras estribor			
1A	Ballast	5.36	14 barras babor 8 crujia 14 estribor			
3	Battery	24.0	7.24 2 baterias 12 placas c/u			
9E	Miscellaneous	5.8	5.96 gata hidráulica			
9C	Miscellaneous	1.0	10.11 extintor			
9B	Miscellaneous	5.0	7.16 cocina alcohol inox			
9A	Miscellaneous	1.0	6.66 lav adero inox			

