International Certificate 2023

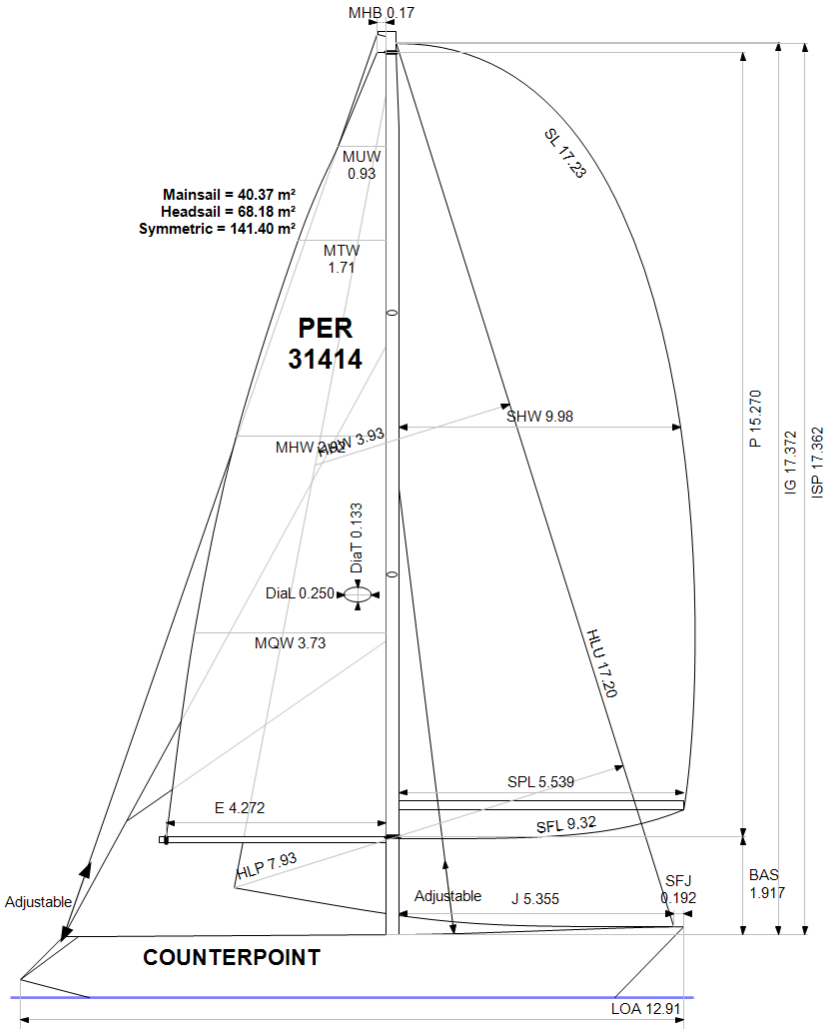
Boat
COUNTERPOINT
PER 31414

Asociacion de Vela Oceanica
del Pero - AVOP
Roberto Peschiera - Rating Officer
peschiera56@gmail.com

AVOP

APH: **541.3** CDL: **9.935**

GPH: **605.3** CertNo:



Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.0°	40.2°	39.0°	38.1°	37.2°	36.9°	37.0°
Beat VMG	3.77	4.51	4.99	5.22	5.35	5.43	5.49
52°	5.67	6.60	7.11	7.34	7.44	7.51	7.58
60°	5.92	6.80	7.27	7.50	7.61	7.69	7.77
75°	6.06	6.91	7.38	7.65	7.82	7.93	8.08
90°	5.93	6.84	7.36	7.68	7.91	8.09	8.35
110°	5.66	6.81	7.47	7.83	8.10	8.28	8.56
120°	5.53	6.69	7.41	7.83	8.16	8.44	8.88
135°	5.02	6.20	7.07	7.61	7.99	8.34	9.02
150°	4.24	5.38	6.36	7.12	7.61	7.97	8.64
Run VMG	3.67	4.66	5.51	6.25	6.85	7.37	8.08
Gybe Angles	144.2°	149.3°	151.4°	156.8°	165.8°	176.6°	179.0°

BOAT

Class	**Serendipity 43**
Designer	**Doug Peterson**
Builder	**New Oleans Marine**
Age date	**01/1981**
Series date	**01/1981**
Offset file	**counterp.off**
Data file	**PER31414**

HULL

Length Overall	**12.910 m**
Maximum Beam	**4.048 m**
Draft	**2.347 m**
Displacement	**9,265 kg**
DLR	**8.3986**
IMS Division	**Cruiser/Racer**
Dynamic Allowance	**0.180%**
Age Allowance	**0.487%**

PROPELLER

Installation	**Shaft exposed**
Type	**Folding 3 blades**
Diameter	**0.420m**

CREW

Maximum weight	**750 kg**
Minimum weight	**563 kg** ** when applied*
Non Manual Power	**No**
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**40.37**	**41.00**
Headsail Luffed	**68.18**	**68.18**
Headsail Flying		
Symmetric	**141.40**	**141.40**
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	**11.42**
Storm Jib	**15.32**
Heavy Weather Jib	**41.36**

SAIL LIMITS

Headsails	**6**
Spinnakers	**5**

STABILITY

Righting Moment	**209.6 kg·m**
Stability Index	**123.5**

COMMENTS

cambio P, ISP, IG, BAS

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.

ORC International Certificate **2023**

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Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	954.8	797.5	720.8	689.0	672.9	663.3	655.2
52°	635.2	545.7	506.2	490.6	483.6	479.4	475.1
60°	608.4	529.6	495.0	479.7	472.8	468.3	463.6
75°	594.0	520.8	487.8	470.6	460.1	453.8	445.6
90°	607.4	526.4	488.8	468.7	455.0	444.8	431.1
110°	635.8	528.9	482.2	459.6	444.6	434.8	420.6
120°	651.1	537.9	485.8	459.6	441.1	426.6	405.5
135°	717.4	580.9	509.1	473.3	450.7	431.7	399.0
150°	850.0	669.2	566.0	505.4	473.2	451.9	416.8
Run VMG	981.5	772.7	652.9	575.9	525.6	488.5	445.6
Selected Courses							
Windward / Leeward	968.2	785.1	686.8	632.5	599.2	575.9	550.4
All purpose	750.4	621.8	556.9	523.2	503.3	489.8	472.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	659.0	0.9105
All purpose	541.3	1.1085

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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	**Serendipity 43**	LOA	**12.910**	VCGD	**0.014**
Measurement	**13/06/2017**	Max. Beam	**4.048**	VCGM	**-0.022**
HIN		Draft	**2.347**	RM Rated (kg·m)	**209.6**
Plan review		Displacement	**9,265**	Limit of positive stability(°)	**119.5**
Hull construction	**Solid**	Wetted area	**34.70**	Stability Index	**123.5**
Carbon Rudder	**No**	IMS L	**10.476**		
Light stanchions	**No**	LSM0	**10.332**		
Trim tab	**No**	Acc. length	**12.910**		
		Sink (kg/mm)	**23.36**		

PROPELLER

Propeller Type	**Folding 3 blades**										
Installation	**Shaft exposed**	PRD	**0.420**	PSD	**0.025**	PSA	**18.0°**	ST1	**0.020**	ST4	**0.055**
Twin screw	**No**	PBW	**0.110**	PHD	**0.074**	ESL	**1.060**	ST2	**0.120**	ST5	**0.225**
Hydro generator	**No**	PIPA	**0.0056**	PHL	**0.155**			ST3	**0.120**		

RIG

Forestay tension	**Aft**	P	**15.270**	E	**4.272**
Inner stay	**Adjustable**	IG	**17.372**	J	**5.355**
Carbon mast	**No**	ISP	**17.362**	BAS	**1.917**
Headsail furler	**No**	MDT1	**0.133**	FSD	
Mainsail furler	**No**	MDL1	**0.250**	SFJ	**0.192**
Articulated bowsprit	**No**	MDT2	**0.125**	SPL	**5.539**
Non-circular rigging	**No**	MDL2	**0.200**	WPL	
Fiber rigging	**No**	TL	**1.500**	TPS	**6.440**
Runners/Checkstays	**2**	MW	**0.200**	BD	**0.115**
Spreaders	**2**	GO	**0.240**	MWT	
Rotating mast	**No**			MCG	

FLOTATION AND STABILITY

Calculation method	**Poles inclining**	SFFP	**0.875**	SAFP	**11.790**	W1	**115.0**	PD1	**522.2**	WD	**11.750**
Flotation Date	**13/06/2017**	FFM	**1.357**	FAM	**1.181**	W2	**115.0**	PD2	**510.2**	PLM	**9000.00**
Measurer		FF	**1.359**	FA	**1.181**	W3	**115.0**	PD3	**504.6**	GSA	**1.0**
Comment		LCFcl	**6.977**	LCFsh	**7.265**	W4	**115.0**	PD4	**497.8**	RSA	**1.0**
		SG	**1.0253**	HBI	**1.219**					RM	**209.2**

INVENTORY

TANKS	*Id*	*Description*	*Sp.Wght*	*Capacity*	*Condition*	*LCG*	*VCG*
	B7	AGUA INOX A BABOR		200	0	6.25	
	E7	PETROLEO ALUMINIO A ESTRIBOR	0.9000	200	~~24~~	6.25	
					Total deductible **22**	**6.25**	

OTHER ITEMS	*Id*	*Kind*	*Description*	*Weight*	*LCG*	*VCG*
	E5	Battery	LADO ESTRIBOR	21	7.66	
	B7	Battery	LADO BABOR	21	5.61	
	C5	Engine	LISTER PETER 55HP			
				Total deductible **0**		

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MAINSAIL

Id	*MHB*	*MUW*	*MTW*	*MHW*	*MQW*	*Area*	*Meas.Date*	*Comment*
M1-17	0.17	0.93	1.71	2.92	3.73	40.37	11/09/2019	REMDICION

HEADSAIL

Id	*HHB*	*HUW*	*HTW*	*HHW*	*HQW*	*HLP*	*HLU*	*Btn*	*Flying FT*	*Area*	*Meas.Date*	*Comment*
R-L	0.10	0.99	1.96	3.93	5.97	7.93	17.20	No	No	68.18	20/08/2021	USADA
GN-1	0.09	0.94	1.88	3.82	5.81	7.89	17.39	No	No	67.42	11/09/2019	NUEVA
F1	0.10	0.76	1.38	2.50	3.68	4.90	16.90	Yes	No	42.43	25/10/2019	USADA ANTES G1
BS1	0.04	0.53	1.08	2.23	3.39	4.43	16.20	No	No	36.10	25/10/2019	USADA
ST1	0.06	0.47	0.92	1.90	2.89	3.95	10.76	No	No	20.78	25/10/2019	STAYSAIL

SYMMETRIC SPINNAKER

Id	*SLU*	*SLE*	*SL*	*SHW*	*SFL*	*Area*	*Meas.Date*	*Comment*
S1.5	17.23	17.23	17.23	9.98	9.32	141.40	23/05/2003	
S1	17.10	17.10	17.10	9.59	9.42	136.17	13/06/2017	USADO BCO
S2	17.15	17.15	17.15	9.56	9.25	135.74	13/06/2017	USADO BCO