

<b>BOAT</b> Name <b>COUNTERPOINT</b> Sail Nr <b>PER 31414</b>	<b>GPH</b> <b>605.3</b>	<b>HULL</b> Length Overall <b>12.910m</b> Maximum Beam <b>4.048m</b> Displacement <b>9,266kg</b> Draft <b>2.347m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.139%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>Serendipity 43</b> Designer <b>Doug Peterson</b> Builder <b>New Orleans Marine</b> Series <b>01/1981</b> Age <b>01/1981</b> Age Allowance <b>0.487%</b> Offset File <b>counterp.off - 16/05/1991 08:18:12</b> Measurement by <b>Patricio Gutierrez - 13/06/2017</b>		IMSL <b>10.468m</b> VCGD <b>0.014m</b> Sink <b>23.36kg/mm</b> RL <b>9.347m</b> VCGM <b>-0.022m</b> WS <b>34.70m<sup>2</sup></b> LSM0 <b>10.696m</b> Displacement/Length ratio <b>7.5723</b>



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2019**  
ORC International  
Certificate

**Rating Office**  
Asociacion de Veleros  
Oceanicos del Peru  
Roberto Peschiera - RO  
peschiera56@gmail.com



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	<b>588.6</b>			<b>654.1</b>		
Time on Time	<b>1.0194</b>			<b>1.0319</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>690.3</b>	<b>536.8</b>	<b>483.4</b>	<b>885.9</b>	<b>658.2</b>	<b>572.9</b>
Time on Time	<b>0.9778</b>	<b>1.2575</b>	<b>1.3965</b>	<b>0.7619</b>	<b>1.0255</b>	<b>1.1782</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>979.3</b>	<b>821.5</b>	<b>728.9</b>	<b>690.7</b>	<b>673.7</b>	<b>664.7</b>	<b>662.1</b>
52°	<b>651.5</b>	<b>550.9</b>	<b>502.6</b>	<b>486.7</b>	<b>480.1</b>	<b>476.7</b>	<b>474.7</b>
60°	<b>620.3</b>	<b>528.9</b>	<b>490.9</b>	<b>476.0</b>	<b>468.8</b>	<b>464.7</b>	<b>461.7</b>
75°	<b>597.4</b>	<b>515.2</b>	<b>482.8</b>	<b>466.8</b>	<b>455.8</b>	<b>447.8</b>	<b>440.1</b>
90°	<b>604.2</b>	<b>517.3</b>	<b>482.0</b>	<b>464.1</b>	<b>450.6</b>	<b>438.9</b>	<b>420.6</b>
110°	<b>636.1</b>	<b>523.8</b>	<b>477.2</b>	<b>455.4</b>	<b>438.7</b>	<b>428.5</b>	<b>412.6</b>
120°	<b>651.2</b>	<b>534.7</b>	<b>481.8</b>	<b>457.3</b>	<b>437.3</b>	<b>419.2</b>	<b>397.8</b>
135°	<b>713.3</b>	<b>582.0</b>	<b>504.9</b>	<b>471.5</b>	<b>450.2</b>	<b>429.9</b>	<b>393.6</b>
150°	<b>839.5</b>	<b>670.1</b>	<b>568.3</b>	<b>505.0</b>	<b>472.7</b>	<b>452.6</b>	<b>415.3</b>
Run VMG	<b>969.4</b>	<b>773.8</b>	<b>656.1</b>	<b>576.4</b>	<b>524.3</b>	<b>485.4</b>	<b>444.6</b>

**Certificate**  
Number  
ORC Ref **PER00000102**  
Issued On **21/09/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/03/2020**

**Crew Weight**  
Default **758kg**  
Maximum **758kg**  
Minimum\* **569kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **633.3 0.9474**  
Non Spin OSN **616.0 0.9740**

Selected Courses							
Windward / Leeward	<b>974.3</b>	<b>797.7</b>	<b>692.5</b>	<b>633.6</b>	<b>599.0</b>	<b>575.1</b>	<b>553.3</b>
Circular Random	<b>829.1</b>	<b>671.3</b>	<b>587.3</b>	<b>539.2</b>	<b>510.3</b>	<b>491.9</b>	<b>470.3</b>
Coastal / Long Distance	<b>973.8</b>	<b>750.7</b>	<b>625.8</b>	<b>555.8</b>	<b>519.7</b>	<b>492.0</b>	<b>451.2</b>
Non Spinnaker	<b>879.1</b>	<b>707.0</b>	<b>614.0</b>	<b>559.7</b>	<b>526.4</b>	<b>504.9</b>	<b>479.1</b>

**Sails Limitations**  
Headsails **6** Spinnakers **4**

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	<b>41.8°</b>	<b>40.7°</b>	<b>40.8°</b>	<b>39.1°</b>	<b>38.3°</b>	<b>38.1°</b>	<b>38.0°</b>
Beat VMG	<b>3.68</b>	<b>4.38</b>	<b>4.94</b>	<b>5.21</b>	<b>5.34</b>	<b>5.42</b>	<b>5.44</b>
52°	<b>5.53</b>	<b>6.53</b>	<b>7.16</b>	<b>7.40</b>	<b>7.50</b>	<b>7.55</b>	<b>7.58</b>
60°	<b>5.80</b>	<b>6.81</b>	<b>7.33</b>	<b>7.56</b>	<b>7.68</b>	<b>7.75</b>	<b>7.80</b>
75°	<b>6.03</b>	<b>6.99</b>	<b>7.46</b>	<b>7.71</b>	<b>7.90</b>	<b>8.04</b>	<b>8.18</b>
90°	<b>5.96</b>	<b>6.96</b>	<b>7.47</b>	<b>7.76</b>	<b>7.99</b>	<b>8.20</b>	<b>8.56</b>
110°	<b>5.66</b>	<b>6.87</b>	<b>7.54</b>	<b>7.90</b>	<b>8.21</b>	<b>8.40</b>	<b>8.72</b>
120°	<b>5.53</b>	<b>6.73</b>	<b>7.47</b>	<b>7.87</b>	<b>8.23</b>	<b>8.59</b>	<b>9.05</b>
135°	<b>5.05</b>	<b>6.19</b>	<b>7.13</b>	<b>7.64</b>	<b>8.00</b>	<b>8.37</b>	<b>9.15</b>
150°	<b>4.29</b>	<b>5.37</b>	<b>6.33</b>	<b>7.13</b>	<b>7.62</b>	<b>7.95</b>	<b>8.67</b>
Run VMG	<b>3.71</b>	<b>4.65</b>	<b>5.49</b>	<b>6.25</b>	<b>6.87</b>	<b>7.42</b>	<b>8.10</b>
Gybe Angles	<b>145.5°</b>	<b>150.0°</b>	<b>150.2°</b>	<b>154.9°</b>	<b>169.1°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **9.908**

**Storm Sails Areas**  
Heavy Weather Jib **41.36**  
Storm Jib (JL=11.38) **15.32**  
Storm Trysail **11.42**

**Owner**  
EDUARDO HEINRICH  
Panamericana Sur Km.16.6  
Villa El Salvador  
Lima - Peru

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

<b>BOAT</b>	
Name <b>COUNTERPOINT</b>	Sail Nr <b>PER 31414</b>
File <b>PER31414</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>Adjustable</b>	Runners <b>2</b>
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>
Taper Hollows <b>No</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>
Articulated Bowsprit <b>No</b>	
P <b>15.270</b>	E <b>4.272</b> MDT1 <b>0.133</b> MW <b>0.200</b>
IG <b>17.372</b>	J <b>5.355</b> MDL1 <b>0.250</b> GO <b>0.240</b>
ISP <b>17.362</b>	SFJ <b>0.192</b> MDT2 <b>0.125</b> BD <b>0.115</b>
BAS <b>1.917</b>	SPL <b>5.430</b> MDL2 <b>0.200</b> MWT
FSP	TPS TL <b>1.500</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>13/06/2017</b>		SG <b>1.0253</b>	
FFM <b>1.357</b>	FF <b>1.359</b>	SFFP <b>0.875</b>	
FAM <b>1.181</b>	FA <b>1.181</b>	SAFP <b>11.790</b>	
W1 <b>115.0</b>	PD1 <b>522.2</b>	WD <b>11.750</b>	
W2 <b>115.0</b>	PD2 <b>510.2</b>	GSA <b>1.0</b>	
W3 <b>115.0</b>	PD3 <b>504.6</b>	RSA <b>1.0</b>	
W4 <b>115.0</b>	PD4 <b>497.8</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.977 / 7.229</b>	
Maximum beam station from stem		<b>7.560</b>	
RM Measured		<b>209.2kg-m</b>	
RM Default		<b>202.2kg-m</b>	
Limit of positive stability / Stab.Index		<b>119.1° / 123.3</b>	
Freeboard at mast at 5.547		<b>1.219</b>	



**ORC**  
Offshore Racing Congress  
World leader in rating technology


**2019**  
IMS Measurement  
Certificate

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>			
Installation <b>Shaft exposed</b>	PRD <b>0.472</b>		
Type <b>Feathering 2 blades</b>	PBW <b>0.126</b>		
Twin Screw <b>No</b>	PIPA <b>0.0050</b>		
PSA <b>18.000</b>	PHL <b>0.110</b>	ST3 <b>0.125</b>	ESL <b>0.950</b>
PSD <b>0.025</b>	ST1 <b>0.020</b>	ST4 <b>0.050</b>	
PHD <b>0.074</b>	ST2 <b>0.125</b>	ST5 <b>0.120</b>	

**Certificate**

Number  
ORC Ref **PER00000102**  
Issued On **21/09/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/03/2020**



<b>COMMENTS</b>	
cambio P, ISP, IG, BAS	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.170	0.93	1.71	2.92	3.73	40.37	41.00	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	17.10	17.10	17.10	9.59	9.42	136.17		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric</b>									
Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.09	0.94	1.88	3.82	5.81	7.89	17.39	67.42			11/09/2019	Carbon	NUEVA
0.07	0.88	1.78	3.70	5.75	7.94	16.99	64.90			04/08/2017	Kevlar	USADA
0.09	0.76	1.37	2.49	3.67	4.90	16.94	42.42			13/06/2017	Kevlar	USADA

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Patricio Gutierrez</b>				
Date <b>13/06/2017</b>				
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
C5	Engine	VOLVO	55HP	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

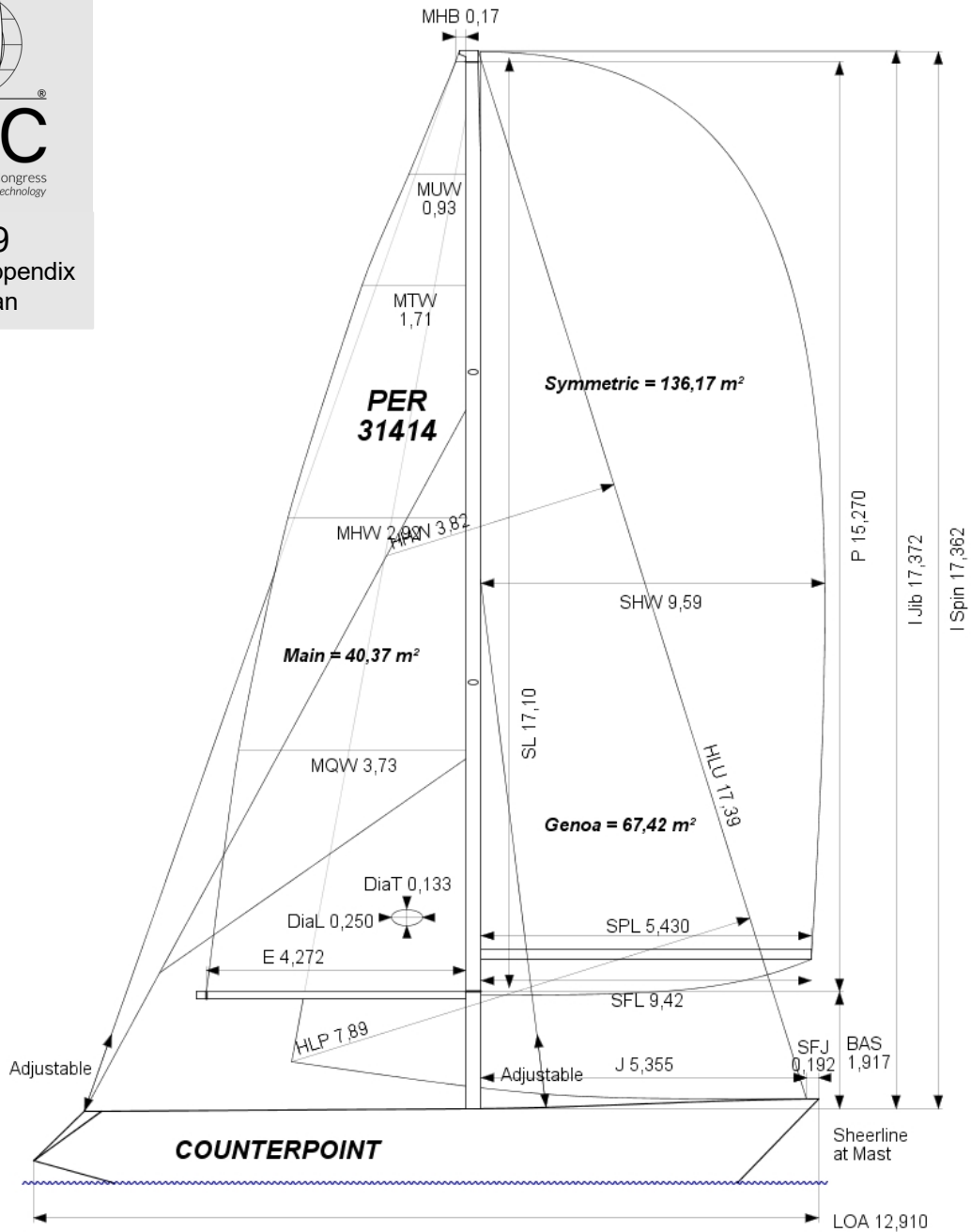
<b>MEASUREMENT INVENTORY</b>									
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn</b>	<b>Description</b>	
B7	Tank	AGUA	ALUMINIO	200.0	6.25			0-0 A BABOR	
E7	Tank	PETROLEO	INOX	200.0	6.25			24-0 A ESTRIBOR	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>					
E5	Battery	14.0	7.66	LADO ESTRIBOR					
B7	Battery	14.0	5.61	LADO BABOR					
E5	Battery	14.0	7.66	LADO ESTRIBOR					



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2019**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1-17	0.17	0.93	1.71	2.92	3.73	40.38	G LIZA	11/09/2019	MAURI PRO	Carbon	REMDICION

**HEADSAILS (3)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
GN-1	0.09	0.94	1.88	3.82	5.81	7.89	17.39	147%	67.42			G LIZA	11/09/2019	MAURI PRO	Carbon	NUEVA
G17-1	0.07	0.88	1.78	3.70	5.75	7.94	16.99	148%	64.90			G LIZA	04/08/2017	DOYLE	Kevlar	USADA
G1	0.09	0.76	1.37	2.49	3.67	4.90	16.94	92%	42.42			G LIZA /	13/06/2017	DOYLE	Kevlar	USADA

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	17.10	17.10	17.10	9.59	9.42	136.18	P GUTIERREZ	13/06/2017	MAURI	Nylon	USADO BCO
S2	17.15	17.15	17.15	9.56	9.25	135.75	P GUTIERREZ	13/06/2017	MAURI	Nylon	USADO BCO

**ASYMMETRIC SPINNAKERS (0)**

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