

<b>BOAT</b>
Name <b>MOANI</b>
Sail Nr <b>PER-9180</b>

<b>GPH</b>
<b>637,2</b>

<b>HULL</b>
Length Overall <b>11,406 m</b>
Maximum Beam <b>3,935 m</b>
Displacement <b>7.488 kg</b>
Draft <b>2,367 m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0,567%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Trim Tab <b>No</b>
IMS L <b>10,132</b> VCGD <b>0,114</b> VCGM <b>0,271</b>
Sink <b>21,06 kg/mm</b> Wetted Area <b>29,92 m<sup>2</sup></b>



**2009**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>Hunter37.5custom KI</b>
Designer
Builder <b>Hunter</b>
Series <b>01/1990</b>
Age <b>01/1990</b>
Age Allowance <b>1,235%</b>
Offset File <b>sestril.off - 22/02/2005 11:24:40</b>
Measurement by <b>Ricardo Chalco - 14/07/1995</b>

<b>SCORING OPTIONS</b>		
	<b>OFFSHORE</b>	<b>INSHORE</b>
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time On Distance	<b>637,2</b>	<b>707,1</b>
Time On Time	<b>0,9415</b>	<b>0,9546</b>
Performance Line	PLT <b>0,867</b> PLD <b>132,4</b>	PLT <b>1,039</b> PLD <b>327,5</b>
Triple Number	Low <b>0,9250</b> Medium <b>1,1978</b> High <b>1,3309</b>	Low <b>0,7029</b> Medium <b>0,9748</b> High <b>1,1284</b>

**Rating Office**  
Federacion Peruana Vela  
Bolognesi 761, Callao  
5, Peru  
Aguiles Rubina, Rat. Ofi.  
rubina@terra.com.pe

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1057,8</b>	<b>855,9</b>	<b>762,3</b>	<b>723,2</b>	<b>700,6</b>	<b>687,0</b>	<b>676,4</b>
52°	<b>679,4</b>	<b>567,7</b>	<b>531,1</b>	<b>513,2</b>	<b>502,4</b>	<b>495,8</b>	<b>490,5</b>
60°	<b>632,5</b>	<b>547,6</b>	<b>514,7</b>	<b>494,8</b>	<b>486,6</b>	<b>481,8</b>	<b>477,5</b>
75°	<b>595,6</b>	<b>533,0</b>	<b>500,4</b>	<b>480,4</b>	<b>470,4</b>	<b>465,6</b>	<b>460,0</b>
90°	<b>597,7</b>	<b>526,0</b>	<b>489,9</b>	<b>472,8</b>	<b>465,4</b>	<b>458,7</b>	<b>443,9</b>
110°	<b>621,3</b>	<b>538,1</b>	<b>499,8</b>	<b>476,2</b>	<b>460,5</b>	<b>444,2</b>	<b>426,7</b>
120°	<b>669,8</b>	<b>555,5</b>	<b>513,6</b>	<b>483,6</b>	<b>466,3</b>	<b>448,9</b>	<b>417,0</b>
135°	<b>783,8</b>	<b>616,1</b>	<b>543,4</b>	<b>506,9</b>	<b>481,0</b>	<b>464,9</b>	<b>428,7</b>
150°	<b>939,8</b>	<b>729,3</b>	<b>603,9</b>	<b>542,7</b>	<b>508,2</b>	<b>482,6</b>	<b>449,9</b>
Run VMG	<b>1085,2</b>	<b>842,1</b>	<b>697,2</b>	<b>607,3</b>	<b>552,8</b>	<b>518,1</b>	<b>473,2</b>

<b>Certificate</b>
Number <b>PERI04</b>
ORC Ref <b>PER00000012</b>
Issued On <b>19/05/2009</b>
VPP Ver. <b>1.11</b>
Valid until <b>30/03/2010</b>

<b>Crew Weight</b>
Declared <b>700 kg</b>
Default* <b>640 kg</b>

<b>Special Scoring</b>
ToD ToT
Double Handed <b>641,3 0,9356</b>
Non Spinnaker <b>670,2 0,8952</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1089,6</b>	<b>863,2</b>	<b>741,9</b>	<b>674,4</b>	<b>634,4</b>	<b>609,3</b>	<b>580,1</b>
Circular Random	<b>877,9</b>	<b>708,0</b>	<b>617,8</b>	<b>566,5</b>	<b>535,7</b>	<b>516,2</b>	<b>492,4</b>
Ocean for PCS	<b>939,0</b>	<b>740,9</b>	<b>632,2</b>	<b>567,6</b>	<b>526,7</b>	<b>498,7</b>	<b>460,2</b>
Non Spinnaker	<b>941,2</b>	<b>751,4</b>	<b>648,7</b>	<b>589,1</b>	<b>552,9</b>	<b>530,0</b>	<b>503,2</b>

<b>Sails Limitations</b>
Genoas <b>1</b> Jibs <b>0</b> Spinnakers <b>3</b>
Spinnaker configuration <b>Symmetric</b>

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>29,37</b>
Storm Jib (JL=9,59) <b>10,88</b>
Storm Trysail <b>12,33</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>44,4°</b>	<b>43,6°</b>	<b>39,9°</b>	<b>37,7°</b>	<b>36,3°</b>	<b>35,6°</b>	<b>35,1°</b>
Beat VMG	<b>3,40</b>	<b>4,21</b>	<b>4,72</b>	<b>4,98</b>	<b>5,14</b>	<b>5,24</b>	<b>5,32</b>
52°	<b>5,30</b>	<b>6,34</b>	<b>6,78</b>	<b>7,01</b>	<b>7,17</b>	<b>7,26</b>	<b>7,34</b>
60°	<b>5,69</b>	<b>6,57</b>	<b>6,99</b>	<b>7,28</b>	<b>7,40</b>	<b>7,47</b>	<b>7,54</b>
75°	<b>6,04</b>	<b>6,75</b>	<b>7,19</b>	<b>7,49</b>	<b>7,65</b>	<b>7,73</b>	<b>7,83</b>
90°	<b>6,02</b>	<b>6,84</b>	<b>7,35</b>	<b>7,61</b>	<b>7,74</b>	<b>7,85</b>	<b>8,11</b>
110°	<b>5,79</b>	<b>6,69</b>	<b>7,20</b>	<b>7,56</b>	<b>7,82</b>	<b>8,10</b>	<b>8,44</b>
120°	<b>5,37</b>	<b>6,48</b>	<b>7,01</b>	<b>7,44</b>	<b>7,72</b>	<b>8,02</b>	<b>8,63</b>
135°	<b>4,59</b>	<b>5,84</b>	<b>6,63</b>	<b>7,10</b>	<b>7,48</b>	<b>7,74</b>	<b>8,40</b>
150°	<b>3,83</b>	<b>4,94</b>	<b>5,96</b>	<b>6,63</b>	<b>7,08</b>	<b>7,46</b>	<b>8,00</b>
Run VMG	<b>3,32</b>	<b>4,28</b>	<b>5,16</b>	<b>5,93</b>	<b>6,51</b>	<b>6,95</b>	<b>7,61</b>
Gybe Angles	<b>143,1°</b>	<b>146,3°</b>	<b>150,3°</b>	<b>163,2°</b>	<b>172,9°</b>	<b>174,5°</b>	<b>177,4°</b>

<b>Owner</b>
<b>Johnny Bravo</b>
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

<b>BOAT</b>	
Name <b>MOANI</b>	Sail Nr <b>PER-9180</b>
File <b>MOANI.dxt</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Fixed</b>	Spreaders <b>2</b>
Inner Forestay <b>None Fitted</b>	Runners <b>0</b>
Carbon Mast <b>No</b>	Jumpers <b>None</b>
Taper Hollows <b>No</b>	w/o Backstay <b>No</b>
P <b>14,940</b>	E <b>4,715</b> MDT1 <b>0,144</b> TL <b>1,500</b>
IG <b>14,710</b>	J <b>4,130</b> MDL1 <b>0,223</b> MWT
ISP <b>14,980</b>	SFJ <b>0,410</b> MDT2 <b>0,144</b> MCG
SPS <b>4,942</b>	SPL <b>4,130</b> MDL2 <b>0,180</b> CPW
BAS <b>1,780</b>	TPS <b>0,070</b> MW <b>0,224</b> BD <b>0,175</b>
BAL <b>0,210</b>	FSP <b>0,070</b> GO <b>0,235</b> BWT

<b>HEAVY ITEMS</b>			
Bow Thruster <b>No</b>	Generator <b>No</b>	Air Condition <b>No</b>	
Windlass <b>No</b>	Jib Furler <b>Yes</b>	Desalinator <b>No</b>	
Heavy Deck <b>No</b>	Main Furler <b>No</b>		
Headliners <b>Yes</b>	Water Heater <b>Yes</b>		
Anchor Weight <b>15,0</b>	Heavy Items Adjustment <b>0,0031</b>		
Anchor LCG <b>1,10</b>	Total Gyradius Adjustment <b>0,0365</b>		

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

<b>COMMENTS</b>	
Casco US19648 con quilla lanzada x-Sestril	

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>20/01/2005</b>		SG <b>1,0260</b>
FFM <b>1,360</b>	FF <b>1,360</b>	SFFP <b>0,611</b>
FAM <b>1,160</b>	FA <b>1,160</b>	SAFP <b>10,276</b>
W1 <b>19,000</b>	PD1 <b>66,2</b>	WD <b>11,800</b>
W2 <b>38,000</b>	PD2 <b>132,5</b>	GSA <b>50,0</b>
W3 <b>57,000</b>	PD3 <b>198,8</b>	RSA <b>8300,0</b>
W4 <b>76,000</b>	PD4 <b>263,0</b>	PLM <b>2130,0</b>
Maximum beam station from stem		<b>6,819</b>
RM Measured / Default		<b>125,4 / 156,7</b>
Limit of positive stability		<b>106,7°</b>
Stability Index		<b>108,3</b>
Freeboard at mast at 4,540		<b>1,250</b>

<b>PROPELLER</b>			
Installation <b>Out of Aperture</b>	PRD <b>0,429</b>		
Type <b>Folding</b>	PBW <b>0,120</b>		
Twin Screw <b>No</b>	PIPA <b>0,0031</b>		
PSA <b>16,000</b>	PHL <b>0,150</b>	ST3 <b>0,092</b>	ESL <b>1,047</b>
PSD <b>0,025</b>	ST1 <b>0,017</b>	ST4 <b>0,045</b>	
PHD <b>0,046</b>	ST2 <b>0,078</b>	ST5 <b>0,226</b>	

<b>WATER BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

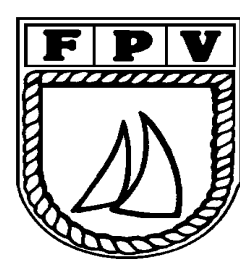
<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	HB	MGT	MGU	MGM	MGL	MSW		Area	Formula
	0,150	0,95	1,72	2,97	3,94	18,00		41,35	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
<b>Jib/Genoa</b>	JH	JGT	JGU	JGM	JGL	JL	LPG	46,64	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
	0,00	0,76	1,52	3,05	4,57	15,32	6,09		
<b>Symmetric</b>	SL	SMG	SF					88,10	$SL \cdot (SF + 4 \cdot SMG) / 6$
	14,34	7,36	7,42						



**2009**  
IMS Measurement  
Certificate

**Certificate**

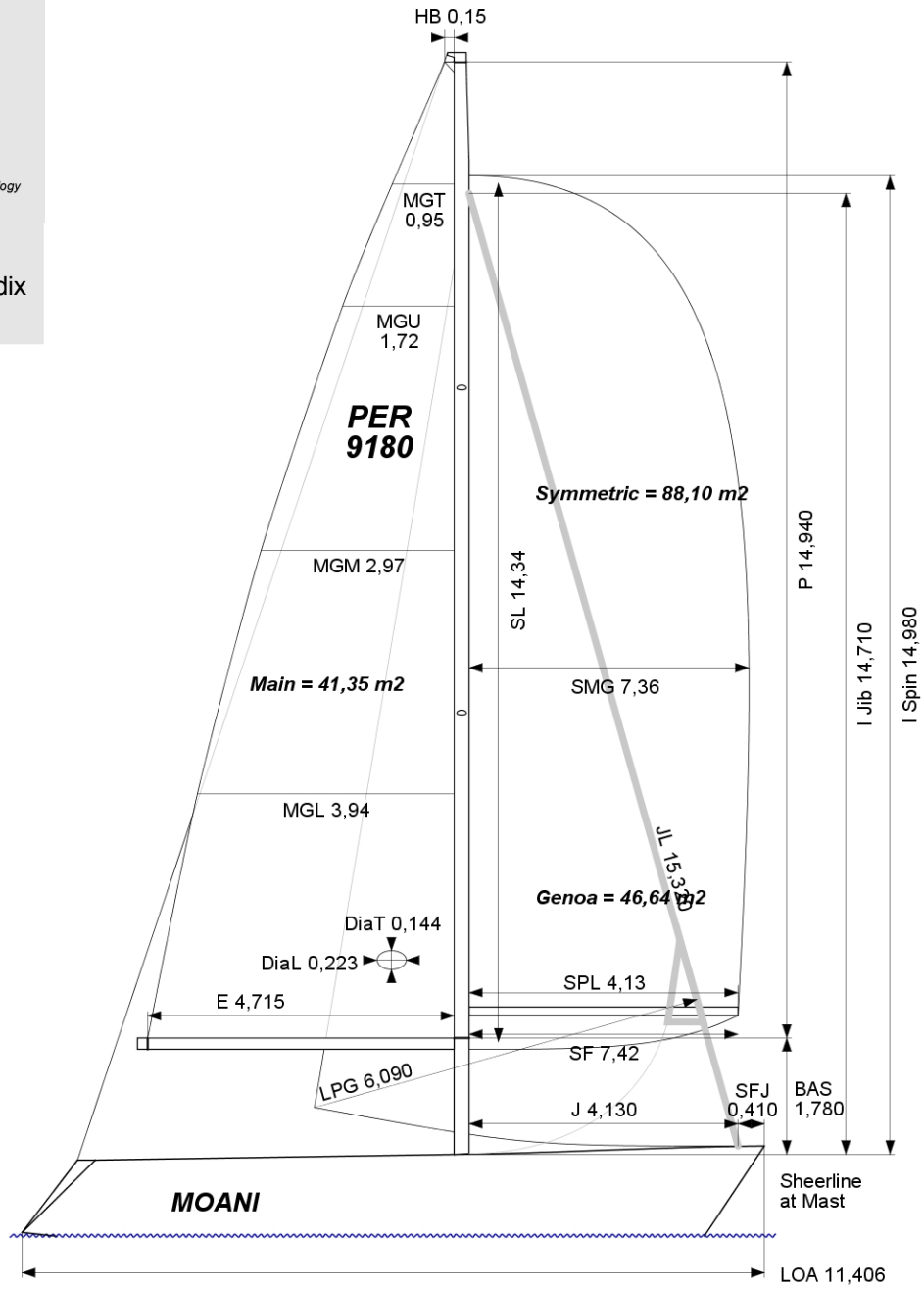
Number **PERI04**  
ORC Ref **PER00000012**  
Issued On **19/05/2009**  
VPP Ver. 1.11  
Valid until **30/03/2010**





World Leader in Rating Technology

2009  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment		
ORC	0,150	0,95	1,72	2,97	3,94	18,00	41,35					* Copied from legacy		
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						6,09	0,00	147%	46,64					* Copied from
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	14,34	7,36	7,42	88,10					* Copied from legacy *					
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		