

<b>BOAT</b>
Name <b>RAVIN</b>
Sail Nr <b>PER 43833</b>

<b>GPH</b>
<b>622,4</b>

<b>HULL</b>					
Length Overall	<b>10,025 m</b>				
Maximum Beam	<b>3,131 m</b>				
Displacement	<b>3.289 kg</b>				
Draft	<b>2,276 m</b>				
IMS Reg. Division	<b>None</b>				
Dynamic Allowance	<b>0,093%</b>				
Fwd Accommodation	<b>No</b>				
Hull Construction	<b>Cored</b>				
Carbon Rudder	<b>No</b>				
Trim Tab	<b>No</b>				
IMS L	<b>9,379</b>	VCGD	<b>-0,167</b>	VCGM	<b>-0,010</b>
Sink	<b>15,54 kg/mm</b>	Wetted Area	<b>20,52 m<sup>2</sup></b>		



**2009**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>Tripp 33</b>
Designer <b>Tripp</b>
Builder <b>Carrol Marine</b>
Series <b>06/1992</b>
Age <b>06/1992</b>
Age Allowance <b>1,105%</b>
Offset File <b>us30257.bof - 08/03/1995 13:48:00</b>
Measurement by <b>Ricardo Chalco - 11/07/1995</b>

<b>SCORING OPTIONS</b>	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>622,4</b>			<b>690,6</b>		
Time On Time	<b>0,9640</b>			<b>0,9775</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,848</b>	<b>104,8</b>		<b>1,041</b>	<b>313,3</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,9455</b>	<b>1,2238</b>	<b>1,3849</b>	<b>0,7204</b>	<b>0,9842</b>	<b>1,1502</b>

**Rating Office**

Federacion Peruana Vela  
Bolognesi 761, Callao  
5, Peru  
Aguiles Rubina, Rat. Ofi.  
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<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1020,6</b>	<b>835,8</b>	<b>755,8</b>	<b>715,1</b>	<b>691,0</b>	<b>676,6</b>	<b>665,9</b>
52°	<b>659,9</b>	<b>560,1</b>	<b>518,1</b>	<b>500,7</b>	<b>491,0</b>	<b>485,2</b>	<b>480,6</b>
60°	<b>621,5</b>	<b>537,6</b>	<b>498,3</b>	<b>484,5</b>	<b>475,9</b>	<b>470,1</b>	<b>465,1</b>
75°	<b>594,4</b>	<b>521,9</b>	<b>485,6</b>	<b>463,9</b>	<b>453,1</b>	<b>445,6</b>	<b>437,7</b>
90°	<b>592,6</b>	<b>511,2</b>	<b>474,2</b>	<b>456,7</b>	<b>442,9</b>	<b>426,5</b>	<b>414,3</b>
110°	<b>610,4</b>	<b>525,9</b>	<b>484,8</b>	<b>455,3</b>	<b>427,5</b>	<b>411,2</b>	<b>390,8</b>
120°	<b>650,9</b>	<b>548,6</b>	<b>497,9</b>	<b>467,9</b>	<b>439,1</b>	<b>411,1</b>	<b>372,5</b>
135°	<b>765,7</b>	<b>609,1</b>	<b>534,7</b>	<b>492,7</b>	<b>465,2</b>	<b>438,3</b>	<b>384,8</b>
150°	<b>922,6</b>	<b>715,3</b>	<b>600,9</b>	<b>535,3</b>	<b>495,1</b>	<b>468,5</b>	<b>418,8</b>
Run VMG	<b>1065,3</b>	<b>826,0</b>	<b>692,7</b>	<b>606,9</b>	<b>547,7</b>	<b>506,6</b>	<b>454,8</b>

<b>Certificate</b>
Number <b>PERI07</b>
ORC Ref <b>PER00000009</b>
Issued On <b>18/05/2009</b>
VPP Ver. <b>1.11</b>
Valid until <b>30/03/2010</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1061,6</b>	<b>846,6</b>	<b>734,9</b>	<b>669,3</b>	<b>626,8</b>	<b>598,3</b>	<b>566,1</b>
Circular Random	<b>859,1</b>	<b>692,9</b>	<b>603,9</b>	<b>551,9</b>	<b>519,3</b>	<b>497,4</b>	<b>468,9</b>
Ocean for PCS	<b>918,3</b>	<b>724,8</b>	<b>617,3</b>	<b>551,7</b>	<b>508,3</b>	<b>477,2</b>	<b>433,2</b>
Non Spinnaker	<b>923,3</b>	<b>737,8</b>	<b>636,8</b>	<b>577,0</b>	<b>539,5</b>	<b>514,7</b>	<b>483,7</b>

<b>Crew Weight</b>	
Declared	<b>560 kg</b>
Default*	<b>570 kg</b>

<b>Special Scoring</b>	
ToD	ToT
Double Handed <b>628,7</b>	<b>0,9543</b>
Non Spinnaker <b>657,4</b>	<b>0,9127</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>44,5°</b>	<b>41,8°</b>	<b>39,5°</b>	<b>37,9°</b>	<b>36,9°</b>	<b>36,3°</b>	<b>36,0°</b>
Beat VMG	<b>3,53</b>	<b>4,31</b>	<b>4,76</b>	<b>5,03</b>	<b>5,21</b>	<b>5,32</b>	<b>5,41</b>
52°	<b>5,46</b>	<b>6,43</b>	<b>6,95</b>	<b>7,19</b>	<b>7,33</b>	<b>7,42</b>	<b>7,49</b>
60°	<b>5,79</b>	<b>6,70</b>	<b>7,22</b>	<b>7,43</b>	<b>7,56</b>	<b>7,66</b>	<b>7,74</b>
75°	<b>6,06</b>	<b>6,90</b>	<b>7,41</b>	<b>7,76</b>	<b>7,94</b>	<b>8,08</b>	<b>8,22</b>
90°	<b>6,07</b>	<b>7,04</b>	<b>7,59</b>	<b>7,88</b>	<b>8,13</b>	<b>8,44</b>	<b>8,69</b>
110°	<b>5,90</b>	<b>6,85</b>	<b>7,43</b>	<b>7,91</b>	<b>8,42</b>	<b>8,75</b>	<b>9,21</b>
120°	<b>5,53</b>	<b>6,56</b>	<b>7,23</b>	<b>7,69</b>	<b>8,20</b>	<b>8,76</b>	<b>9,66</b>
135°	<b>4,70</b>	<b>5,91</b>	<b>6,73</b>	<b>7,31</b>	<b>7,74</b>	<b>8,21</b>	<b>9,36</b>
150°	<b>3,90</b>	<b>5,03</b>	<b>5,99</b>	<b>6,72</b>	<b>7,27</b>	<b>7,68</b>	<b>8,60</b>
Run VMG	<b>3,38</b>	<b>4,36</b>	<b>5,20</b>	<b>5,93</b>	<b>6,57</b>	<b>7,11</b>	<b>7,91</b>
Gybe Angles	<b>142,8°</b>	<b>146,0°</b>	<b>152,7°</b>	<b>162,1°</b>	<b>168,7°</b>	<b>173,3°</b>	<b>174,2°</b>

<b>Sails Limitations</b>		
Genoa	Jibs	Spinnakers
<b>3</b>	<b>2</b>	<b>3</b>
Spinnaker configuration <b>Symmetric</b>		

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>20,13</b>
Storm Jib (JL=7,94)	<b>7,45</b>
Storm Trysail	<b>10,33</b>

**Owner**

Felipe Hughes  
Manuel Olachea 172-Dpt.  
102  
San Isidro, Lima  
PERU

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

Signature

<b>BOAT</b>	
Name <b>RAVIN</b>	Sail Nr <b>PER 43833</b>
File <b>RAVIN.dxt</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Forestay <b>None Fitted</b>	Runners <b>1</b>
Carbon Mast <b>No</b>	Jumpers <b>None</b>
Taper Hollows <b>No</b>	w/o Backstay <b>No</b>
P <b>12,495</b>	E <b>4,725</b> MDT1 <b>0,096</b> TL <b>1,520</b>
IG <b>12,127</b>	J <b>3,370</b> MDL1 <b>0,159</b> MWT
ISP <b>12,215</b>	SFJ <b>0,186</b> MDT2 <b>0,095</b> MCG
SPS <b>2,608</b>	SPL <b>3,697</b> MDL2 <b>0,113</b> CPW <b>1,744</b>
BAS <b>1,497</b>	TPS <b>0,054</b> MW <b>0,159</b> BD <b>0,159</b>
BAL <b>0,310</b>	FSP <b>0,054</b> GO <b>0,182</b> BWT

<b>HEAVY ITEMS</b>	
N/A	
Total Gy radius Adjustment <b>0,0140</b>	

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

<b>COMMENTS</b>
Casco del US30257

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>26/05/2004</b>		SG <b>1,0260</b>
FFM <b>1,105</b>	FF <b>1,105</b>	SFFP <b>0,549</b>
FAM <b>0,970</b>	FA <b>0,970</b>	SAFP <b>8,871</b>
W1 <b>14,375</b>	PD1 <b>68,8</b>	WD <b>10,130</b>
W2 <b>28,750</b>	PD2 <b>137,5</b>	GSA <b>38,0</b>
W3 <b>43,125</b>	PD3 <b>206,3</b>	RSA <b>7800,0</b>
W4 <b>57,500</b>	PD4 <b>275,0</b>	PLM <b>2130,0</b>
Maximum beam station from stem		<b>6,459</b>
RM Measured / Default		<b>78,6 / 81,8</b>
Limit of positive stability		<b>117,6°</b>
Stability Index		<b>115,0</b>
Freeboard at mast at 3,556		<b>1,030</b>

<b>PROPELLER</b>			
Installation <b>Out of Aperture</b>	PRD <b>0,305</b>		
Type <b>Feathering 2 blades</b>	PBW <b>0,084</b>		
Twin Screw <b>No</b>	PIPA <b>0,0030</b>		
PSA <b>16,000</b>	PHL <b>0,135</b> ST3 <b>0,100</b> ESL <b>0,852</b>		
PSD <b>0,025</b>	ST1 <b>0,025</b> ST4 <b>0,042</b>		
PHD <b>0,050</b>	ST2 <b>0,100</b> ST5 <b>0,170</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
	0,180	0,96	1,80	3,07	3,59	15,00	34,04	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
<b>Jib/Genoa</b>	JH	JGT	JGU	JGM	JGL	JL	LPG	
	0,00	0,63	1,25	2,51	3,76	12,46	5,01	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
<b>Symmetric</b>	SL	SMG	SF					
	12,04	6,66	6,48				66,46	$SL \cdot (SF + 4 \cdot SMG) / 6$



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IMS Measurement  
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