

<b>BOAT</b>
Name <b>AKUN</b>
Sail Nr <b>PU-120</b>

<b>GPH</b>
<b>632.5</b>

<b>HULL</b>
Length Overall <b>12.800 m</b>
Maximum Beam <b>3.980 m</b>
Displacement <b>9,536 kg</b>
Draft <b>2.214 m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0.550%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Trim Tab <b>No</b>
IMS L <b>10.636</b> VCGD <b>-0.014</b> VCGM <b>-0.024</b>
Sink <b>23.62 kg/mm</b> Wetted Area <b>33.24 m<sup>2</sup></b>



**2010**  
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<b>GENERAL</b>
Class <b>First 42</b>
Designer <b>GERMAN FRERS</b>
Builder <b>BENETEAU</b>
Series <b>03/1983</b>
Age <b>03/1983</b>
Age Allowance <b>0.975%</b>
Offset File <b>nais91.OFF - 07/07/1991 07:50:22 p.m.</b>
Measurement by <b>Juan Carrion - 21/06/1991</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>632.5</b>			<b>708.5</b>		
Time On Time	<b>0.9486</b>			<b>0.9527</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.819</b>	<b>95.3</b>		<b>0.933</b>	<b>257.1</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0.9213</b>	<b>1.2089</b>	<b>1.3699</b>	<b>0.6982</b>	<b>0.9665</b>	<b>1.1377</b>

**Rating Office**

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Asociación de Veleros  
Oceánicos del Peru

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1097.0</b>	<b>902.8</b>	<b>793.8</b>	<b>740.8</b>	<b>709.2</b>	<b>689.5</b>	<b>676.8</b>
52°	<b>699.2</b>	<b>577.5</b>	<b>527.5</b>	<b>503.3</b>	<b>489.9</b>	<b>481.2</b>	<b>471.9</b>
60°	<b>649.0</b>	<b>546.3</b>	<b>506.7</b>	<b>484.2</b>	<b>471.6</b>	<b>463.8</b>	<b>454.8</b>
75°	<b>606.7</b>	<b>525.0</b>	<b>490.5</b>	<b>468.1</b>	<b>452.2</b>	<b>441.6</b>	<b>431.4</b>
90°	<b>606.7</b>	<b>516.8</b>	<b>479.5</b>	<b>457.3</b>	<b>444.6</b>	<b>437.8</b>	<b>417.9</b>
110°	<b>622.3</b>	<b>526.1</b>	<b>485.6</b>	<b>459.0</b>	<b>438.5</b>	<b>422.7</b>	<b>404.7</b>
120°	<b>661.8</b>	<b>544.7</b>	<b>496.9</b>	<b>467.0</b>	<b>444.3</b>	<b>425.7</b>	<b>397.5</b>
135°	<b>757.3</b>	<b>605.2</b>	<b>527.9</b>	<b>489.5</b>	<b>463.0</b>	<b>441.7</b>	<b>407.6</b>
150°	<b>906.3</b>	<b>710.9</b>	<b>594.1</b>	<b>528.8</b>	<b>492.3</b>	<b>466.5</b>	<b>427.6</b>
Run VMG	<b>1046.5</b>	<b>820.9</b>	<b>686.0</b>	<b>599.4</b>	<b>543.4</b>	<b>505.7</b>	<b>457.2</b>

<b>Certificate</b>
Number <b>PER112</b>
ORC Ref <b>PER00000319</b>
Issued On <b>03/07/2010</b>
VPP Ver. <b>2010 1.11</b>
Valid until <b>31/03/2011</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1091.7</b>	<b>874.1</b>	<b>751.5</b>	<b>679.0</b>	<b>633.9</b>	<b>604.5</b>	<b>572.9</b>
Circular Random	<b>878.2</b>	<b>706.1</b>	<b>613.3</b>	<b>558.8</b>	<b>525.1</b>	<b>503.0</b>	<b>475.7</b>
Ocean for PCS	<b>938.8</b>	<b>738.8</b>	<b>627.1</b>	<b>558.7</b>	<b>514.0</b>	<b>482.5</b>	<b>438.5</b>
Non Spinnaker	<b>936.2</b>	<b>746.5</b>	<b>642.5</b>	<b>580.6</b>	<b>541.8</b>	<b>516.3</b>	<b>485.4</b>

<b>Crew Weight</b>
Declared <b>791 kg</b>
Default* <b>791 kg</b>
Non Manual Power <b>No</b>

<b>Special Scoring</b>		
	ToD	ToT
Double Handed	<b>634.6</b>	<b>0.9455</b>
Non Spinnaker	<b>663.5</b>	<b>0.9042</b>
N/S Perf. Line	<b>62.0</b>	<b>0.732</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>45.7°</b>	<b>44.9°</b>	<b>43.5°</b>	<b>41.1°</b>	<b>39.6°</b>	<b>39.2°</b>	<b>38.9°</b>
Beat VMG	<b>3.28</b>	<b>3.99</b>	<b>4.54</b>	<b>4.86</b>	<b>5.08</b>	<b>5.22</b>	<b>5.32</b>
52°	<b>5.15</b>	<b>6.23</b>	<b>6.82</b>	<b>7.15</b>	<b>7.35</b>	<b>7.48</b>	<b>7.63</b>
60°	<b>5.55</b>	<b>6.59</b>	<b>7.11</b>	<b>7.44</b>	<b>7.63</b>	<b>7.76</b>	<b>7.92</b>
75°	<b>5.93</b>	<b>6.86</b>	<b>7.34</b>	<b>7.69</b>	<b>7.96</b>	<b>8.15</b>	<b>8.34</b>
90°	<b>5.93</b>	<b>6.97</b>	<b>7.51</b>	<b>7.87</b>	<b>8.10</b>	<b>8.22</b>	<b>8.61</b>
110°	<b>5.78</b>	<b>6.84</b>	<b>7.41</b>	<b>7.84</b>	<b>8.21</b>	<b>8.52</b>	<b>8.90</b>
120°	<b>5.44</b>	<b>6.61</b>	<b>7.25</b>	<b>7.71</b>	<b>8.10</b>	<b>8.46</b>	<b>9.06</b>
135°	<b>4.75</b>	<b>5.95</b>	<b>6.82</b>	<b>7.36</b>	<b>7.78</b>	<b>8.15</b>	<b>8.83</b>
150°	<b>3.97</b>	<b>5.06</b>	<b>6.06</b>	<b>6.81</b>	<b>7.31</b>	<b>7.72</b>	<b>8.42</b>
Run VMG	<b>3.44</b>	<b>4.39</b>	<b>5.25</b>	<b>6.01</b>	<b>6.62</b>	<b>7.12</b>	<b>7.87</b>
Gybe Angles	<b>142.5°</b>	<b>147.3°</b>	<b>149.2°</b>	<b>160.1°</b>	<b>168.5°</b>	<b>172.7°</b>	<b>175.1°</b>

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

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>35.70</b>
Storm Jib (JL=10.57)	<b>13.22</b>
Storm Trysail	<b>11.32</b>

**Owner**

Eduardo Wong  
Augusto Angulo 130  
Miraflores, Lima 18  
lwong@ewong.com

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

Signature

<b>BOAT</b>	
Name <b>AKUN</b>	Sail Nr <b>PU-120</b>
File <b>PER120.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>28/05/2004</b>		SG <b>1.0255</b>
FFM <b>1.358</b>	FF <b>1.358</b>	SFFP <b>0.600</b>
FAM <b>1.040</b>	FA <b>1.040</b>	SAFP <b>11.980</b>
W1 <b>27.250</b>	PD1 <b>61.0</b>	WD <b>12.540</b>
W2 <b>54.500</b>	PD2 <b>122.0</b>	GSA <b>38.0</b>
W3 <b>81.750</b>	PD3 <b>183.0</b>	RSA <b>7800.0</b>
W4 <b>109.00</b>	PD4 <b>243.0</b>	PLM <b>2130.0</b>
Maximum beam station from stern		<b>7.405</b>
RM Measured / Default		<b>207.8 / 200.0</b>
Limit of positive stability		<b>117.3°</b>
Stability Index		<b>122.5</b>
Freeboard at mast at 5.100		<b>1.168</b>



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<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Forestay <b>Fixed</b>	Runners <b>0</b>		
Carbon Mast <b>No</b>	Jumpers <b>None</b>		
Taper Hollows <b>No</b>	Jib Furler <b>Yes</b>		
Fiber Rigging <b>No</b>	w/o Backstay <b>No</b>		
P <b>14.260</b>	E <b>4.535</b>	MDT1 <b>0.140</b>	TL <b>0.000</b>
IG <b>16.134</b>	J <b>5.100</b>	MDL1 <b>0.220</b>	MWT
ISP <b>16.134</b>	SFJ	MDT2 <b>0.140</b>	MCG
SPS <b>4.734</b>	SPL <b>5.100</b>	MDL2 <b>0.220</b>	CPW <b>2.580</b>
BAS <b>1.634</b>	TPS	MW <b>0.220</b>	BD <b>0.150</b>
BAL <b>0.130</b>	FSP <b>0.076</b>	GO <b>0.260</b>	BWT

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

<b>PROPELLER</b>			
Installation <b>Shaft</b>	PRD <b>0.440</b>		
Type <b>Folding</b>	PBW <b>0.109</b>		
Twin Screw <b>No</b>	PIPA <b>0.0060</b>		
PSA <b>20.000</b>	PHL <b>0.123</b>	ST3 <b>0.105</b>	ESL <b>0.900</b>
PSD <b>0.032</b>	ST1 <b>0.016</b>	ST4 <b>0.058</b>	
PHD <b>0.078</b>	ST2 <b>0.102</b>	ST5 <b>0.180</b>	

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**AVOP**

<b>COMMENTS</b>	
ex-Naisan	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0.175	1.00	1.74	2.90	3.76	29.00	38.42	39.06	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.00	0.94	1.88	3.76	5.63	17.04	7.51	63.99	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	15.82	9.05	9.18					119.65	$SL \cdot (SF + 4 \cdot SMG) / 6$

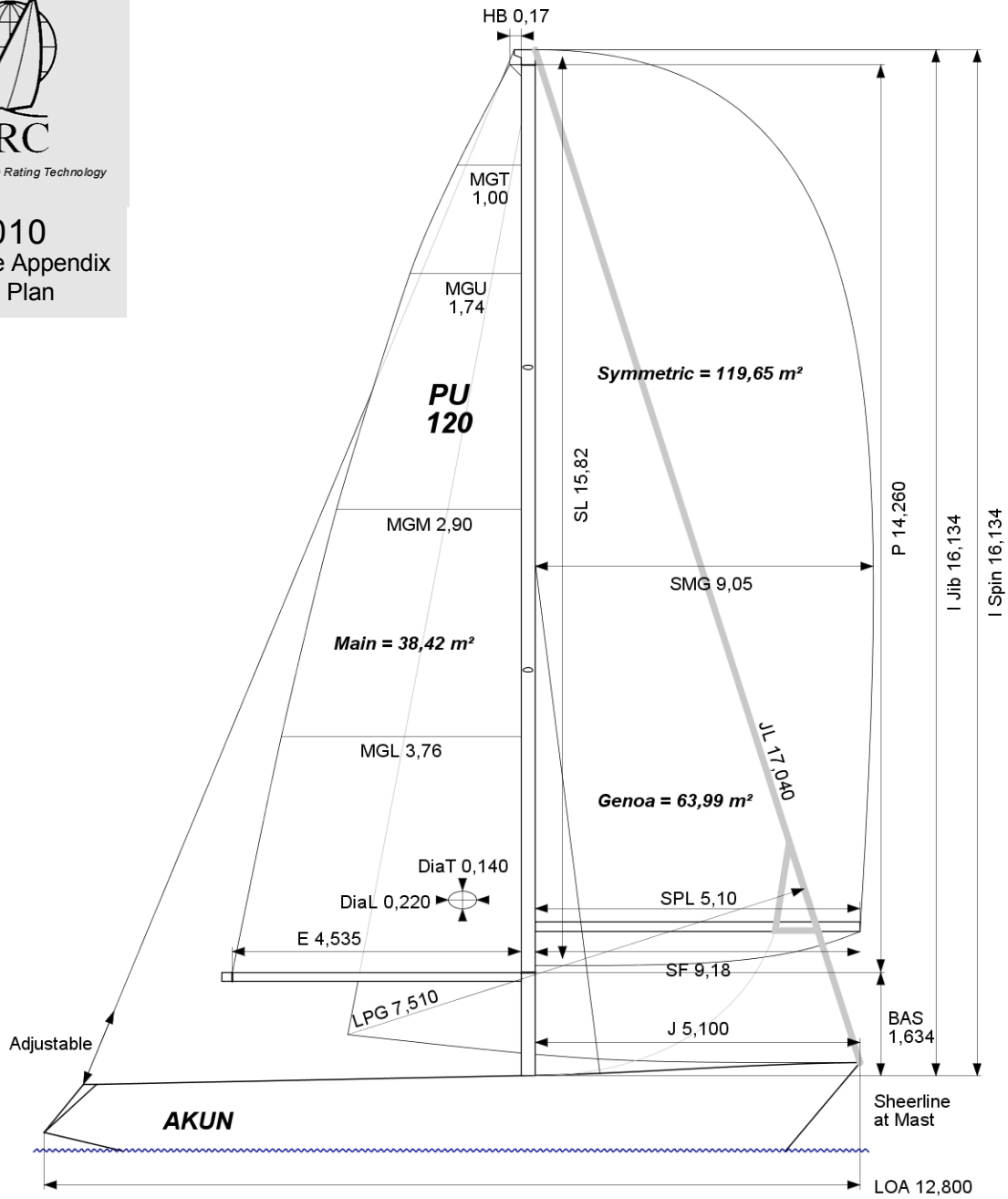
<b>MEASUREMENT INVENTORY</b>			
Measurer	Date	Comment	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distanc Description</b>
OR	Anchor	15.0	1.20 *Legacy Anchor*
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Description</b>

<b>MEASUREMENT INVENTORY</b>			
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distanc Description</b>



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Sail Plan



**SAILS INVENTORY**

**MANSAIL**

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.175	1.00	1.74	2.90	3.76	29.00	38.42					* Copied from legacy

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						7.51	0.00	147%	63.99					* Copied from

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	15.82	9.05	0.00	119.65					* Copied from legacy *

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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