

<b>BOAT</b> Name <b>TANJAOU</b> Sail Nr <b>ESP-2396</b>	<b>GPH</b> <b>671.5</b>	<b>HULL</b> Length Overall <b>9.000m</b> Maximum Beam <b>3.389m</b> Displacement <b>2,670kg</b> Draft <b>1.758m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>J 29</b> Designer <b>R. JOHNSTONE</b> Builder <b>TILLOTSON-PEARSON</b> Series <b>01/1979</b> Age <b>12/1983</b> Age Allowance <b>0.487%</b> Offset File <b>US17305.BOF - 07/05/1987 14:58:44</b> Measurement by <b>JUAN LUIS CERVERA - 12/01/2015</b>		IMSL <b>7.660m</b> VCGD <b>0.026m</b> Sink <b>13.12kg/mm</b> RL <b>7.573m</b> VCGM <b>0.039m</b> WS <b>16.84m<sup>2</sup></b> LSM0 <b>7.572m</b> Displacement/Length ratio <b>6.1501</b>




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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>652.5</b>			<b>725.7</b>		
Time On Time	<b>0.9195</b>			<b>0.9301</b>		
Performance Line	<b>0.626</b>	<b>38.9</b>		<b>0.798</b>	<b>213.2</b>	
Triple Number	Low <b>0.8774</b>	Medium <b>1.1330</b>	High <b>1.2812</b>	Low <b>0.6766</b>	Medium <b>0.9252</b>	High <b>1.0684</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1121.9</b>	<b>932.0</b>	<b>824.4</b>	<b>767.3</b>	<b>744.5</b>	<b>733.9</b>	<b>734.0</b>
52°	<b>730.5</b>	<b>615.0</b>	<b>564.5</b>	<b>542.3</b>	<b>532.0</b>	<b>526.2</b>	<b>522.7</b>
60°	<b>686.8</b>	<b>587.3</b>	<b>549.3</b>	<b>527.9</b>	<b>513.7</b>	<b>506.3</b>	<b>500.6</b>
75°	<b>651.5</b>	<b>569.4</b>	<b>536.8</b>	<b>512.8</b>	<b>491.7</b>	<b>477.4</b>	<b>467.3</b>
90°	<b>654.6</b>	<b>571.4</b>	<b>536.5</b>	<b>507.0</b>	<b>490.4</b>	<b>470.0</b>	<b>443.3</b>
110°	<b>683.7</b>	<b>575.5</b>	<b>535.2</b>	<b>503.3</b>	<b>473.0</b>	<b>447.3</b>	<b>420.8</b>
120°	<b>707.9</b>	<b>588.9</b>	<b>542.6</b>	<b>511.6</b>	<b>481.8</b>	<b>454.2</b>	<b>400.2</b>
135°	<b>787.0</b>	<b>643.9</b>	<b>567.3</b>	<b>533.2</b>	<b>503.7</b>	<b>475.5</b>	<b>423.0</b>
150°	<b>936.3</b>	<b>740.7</b>	<b>626.8</b>	<b>563.0</b>	<b>531.8</b>	<b>504.1</b>	<b>453.1</b>
Run VMG	<b>1081.1</b>	<b>855.3</b>	<b>720.9</b>	<b>630.9</b>	<b>571.5</b>	<b>538.5</b>	<b>485.8</b>

**Certificate**

Number **239601**  
ORC Ref **ESP00016559**  
Issued On **11/03/2016**  
VPP Ver. **2016 1.01**  
Valid until **31/12/2016**

**Crew Weight**

Declared **520kg**  
Default\* **463kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>676.7</b>	<b>0.8867</b>
Double H.OSN	<b>659.9</b>	<b>0.9093</b>
Non Spin GPH	<b>692.7</b>	<b>0.8662</b>
Non Spin OSN	<b>672.0</b>	<b>0.8928</b>
N/S Perf. Line	<b>27.3</b>	<b>0.589</b>

Selected Courses							
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	<b>1101.5</b>	<b>893.7</b>	<b>772.7</b>	<b>699.1</b>	<b>658.0</b>	<b>636.2</b>	<b>609.9</b>
Circular Random	<b>924.1</b>	<b>747.1</b>	<b>651.8</b>	<b>595.9</b>	<b>561.0</b>	<b>537.6</b>	<b>507.8</b>
Ocean for PCS	<b>1135.8</b>	<b>877.1</b>	<b>731.2</b>	<b>641.8</b>	<b>583.3</b>	<b>541.6</b>	<b>481.2</b>
Non Spinnaker	<b>961.3</b>	<b>773.5</b>	<b>671.8</b>	<b>612.0</b>	<b>574.7</b>	<b>550.0</b>	<b>519.3</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>3</b>

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>43.5°</b>	<b>42.4°</b>	<b>41.3°</b>	<b>39.4°</b>	<b>38.2°</b>	<b>37.6°</b>	<b>37.9°</b>
Beat VMG	<b>3.21</b>	<b>3.86</b>	<b>4.37</b>	<b>4.69</b>	<b>4.84</b>	<b>4.91</b>	<b>4.90</b>
52°	<b>4.93</b>	<b>5.85</b>	<b>6.38</b>	<b>6.64</b>	<b>6.77</b>	<b>6.84</b>	<b>6.89</b>
60°	<b>5.24</b>	<b>6.13</b>	<b>6.55</b>	<b>6.82</b>	<b>7.01</b>	<b>7.11</b>	<b>7.19</b>
75°	<b>5.53</b>	<b>6.32</b>	<b>6.71</b>	<b>7.02</b>	<b>7.32</b>	<b>7.54</b>	<b>7.70</b>
90°	<b>5.50</b>	<b>6.30</b>	<b>6.71</b>	<b>7.10</b>	<b>7.34</b>	<b>7.66</b>	<b>8.12</b>
110°	<b>5.27</b>	<b>6.26</b>	<b>6.73</b>	<b>7.15</b>	<b>7.61</b>	<b>8.05</b>	<b>8.56</b>
120°	<b>5.09</b>	<b>6.11</b>	<b>6.63</b>	<b>7.04</b>	<b>7.47</b>	<b>7.93</b>	<b>8.99</b>
135°	<b>4.57</b>	<b>5.59</b>	<b>6.35</b>	<b>6.75</b>	<b>7.15</b>	<b>7.57</b>	<b>8.51</b>
150°	<b>3.84</b>	<b>4.86</b>	<b>5.74</b>	<b>6.39</b>	<b>6.77</b>	<b>7.14</b>	<b>7.94</b>
Run VMG	<b>3.33</b>	<b>4.21</b>	<b>4.99</b>	<b>5.71</b>	<b>6.30</b>	<b>6.69</b>	<b>7.41</b>
Gybe Angles	<b>146.8°</b>	<b>151.2°</b>	<b>152.7°</b>	<b>164.2°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **7.617**

**Storm Sails Areas**

Heavy Weather Jib	<b>15.26</b>
Storm Jib (JL=6.91)	<b>5.65</b>
Storm Triesail	<b>8.16</b>

**Owner**

<b>BOAT</b>	
Name <b>TANJAQUI</b>	Sail Nr <b>ESP-2396</b>
File <b>E2396.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>11/01/2015</b>	SG	<b>1.0270</b>
FFM <b>1.060</b>	FF <b>1.057</b>	SFFP <b>0.478</b>
FAM <b>0.802</b>	FA <b>0.807</b>	SAFP <b>8.940</b>
W1 <b>50.000</b>	PD1 <b>589.2</b>	WD <b>10.330</b>
W2 <b>50.000</b>	PD2 <b>593.8</b>	GSA <b>1.0</b>
W3 <b>50.000</b>	PD3 <b>591.5</b>	RSA <b>1.0</b>
W4 <b>50.000</b>	PD4 <b>595.6</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.055 / 5.302</b>
Maximum beam station from stem		<b>5.237</b>
RM Measured		<b>68.6kg·m</b>
RM Default		<b>62.3kg·m</b>
Limit of positive stability / Stab.Index		<b>107.9° / 101.7</b>
Freeboard at mast at 3.500		<b>0.870</b>

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders	<b>1</b>		
Inner Stay <b>None Fitted</b>	Runners	<b>0</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>11.800</b>	E <b>3.950</b>	MDT1 <b>0.115</b>	MW <b>0.164</b>	
IG <b>10.600</b>	J <b>3.500</b>	MDL1 <b>0.165</b>	GO <b>0.175</b>	
ISP <b>10.660</b>	SFJ <b>0.000</b>	MDT2 <b>0.100</b>	BD <b>0.110</b>	
BAS <b>1.400</b>	SPL <b>3.500</b>	MDL2 <b>0.135</b>	MWT	
FSP <b>0.036</b>	TPS	TL <b>1.400</b>	MCG	



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**IMS Measurement Certificate**

<b>Certificate</b>
Number <b>239601</b>
ORC Ref <b>ESP00016559</b>
Issued On <b>11/03/2016</b>
VPP Ver. <b>2016 1.01</b>
Valid until <b>31/12/2016</b>

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD	<b>0.380</b>
Type <b>Folding 2 blades</b>	PBW	
Twin Screw <b>No</b>	PIPA	<b>0.0029</b>
ST1 <b>0.048</b>	ST3 <b>0.171</b>	ST5 <b>0.210</b>
ST2 <b>0.171</b>	ST4 <b>0.098</b>	EDL <b>0.550</b>

<b>COMMENTS</b>	

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.165	0.82	1.47	2.46	3.26	27.28	27.74	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	55.62		SL · (SFL + 4·SHW) / 6	
	10.74	10.74	10.74	6.17	6.39				
Asymmetric	Not Available								

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
H HB	H UW	H TW	H HW	H QW	H LP	H LU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.65	1.26	2.51	3.81	5.15	10.63	27.11			11/01/2015	Unknow	

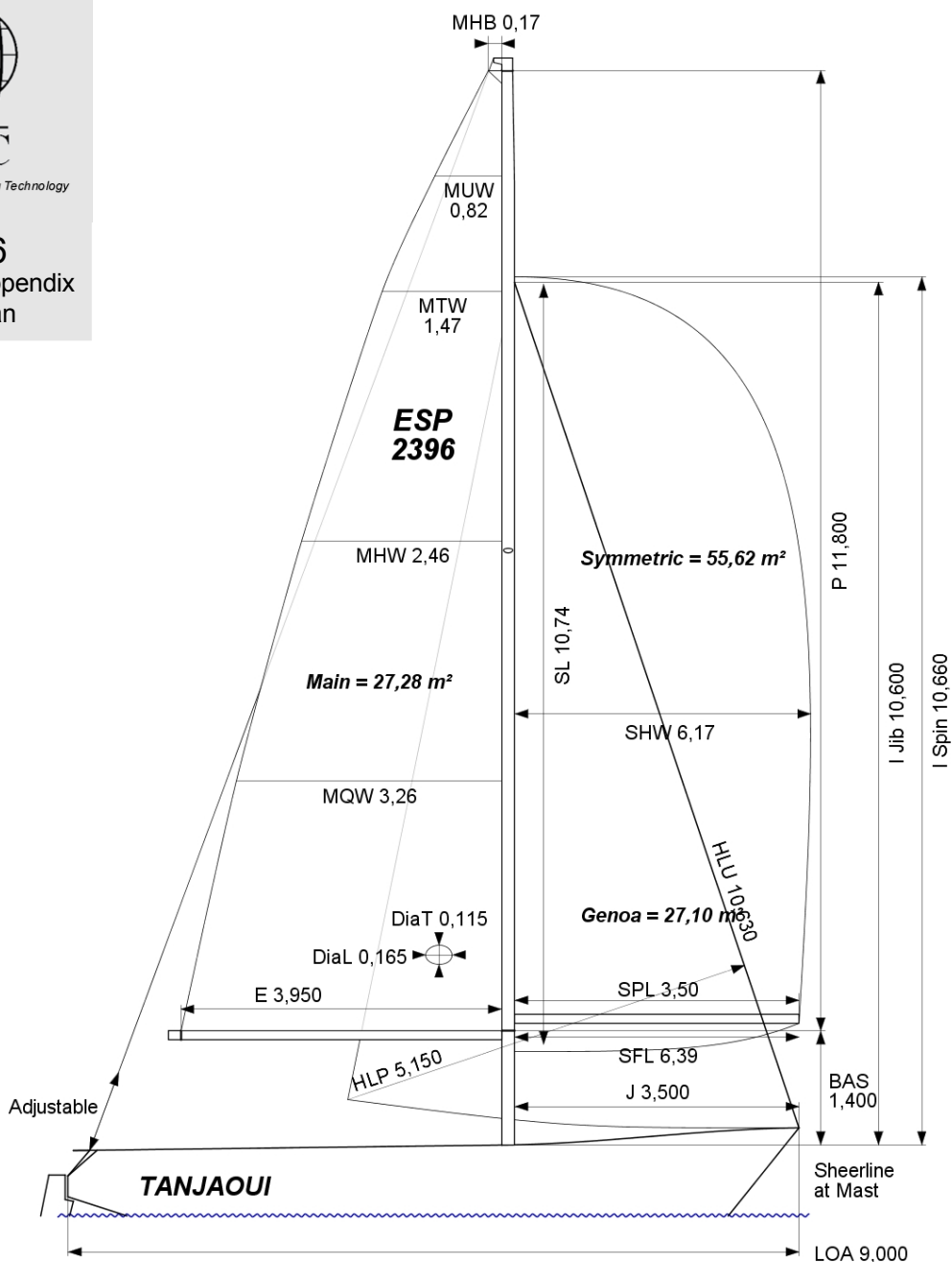
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>JL CERVERAE-600</b>				
Date <b>11/01/2015</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
MAI	Engine	VOLVO	2000 1,8	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<b>MEASUREMENT INVENTORY</b>						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtm Description</i>
GA	Tank	GASOIL	RIGID	35.0	6.55	25-0 25 LTS OF GAS OIL
WA	Tank	WATER	BAG		6.75	0-0 EMPTY WATER
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
BAT	Battery		4.80	SMALL BATT CAPACITY UNKNOWN		
BAT	Battery		5.30	BIG BATT 95 AH		



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
MAYOR	0.165	0.82	1.47	2.46	3.26	27.28	E600	11/01/2015		Dacron	

**HEADSAILS**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
GENO	0.09	0.65	1.26	2.51	3.81	5.15	10.63	147%	27.11			E600	11/01/2015			Unknown

**SYMMETRIC SPINNAKERS**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	10.74	10.74	10.74	6.17	6.39	55.62	E600	03/08/2014			

**ASYMMETRIC SPINNAKERS**

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