

<b>BOAT</b> Name <b>TAKE FIVE JR</b> Sail Nr <b>ITA-17174</b>	<b>GPH</b> <b>619.7</b>	<b>HULL</b> Length Overall <b>10.300m</b> Maximum Beam <b>3.536m</b> Displacement <b>4,472kg</b> Draft <b>1.895m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.063%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>IY 998</b> Designer <b>POLLI</b> Builder <b>ITALIA YACHTING</b> Series <b>09/2014</b> Age <b>09/2014</b> Age Allowance <b>0.163%</b> Offset File <b>IY998MP.off - 04/11/2015 14:00:04</b> Measurement by - <b>12/06/2017</b>		IMSL <b>9.373m</b> VCGD <b>0.110m</b> Sink <b>17.58kg/mm</b> RL <b>8.333m</b> VCGM <b>0.112m</b> WS <b>23.32m<sup>2</sup></b> LSM0 <b>9.096m</b> Displacement/Length ratio <b>5.9422</b>



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	<b>603.1</b>			<b>676.5</b>		
Time on Time	<b>0.9949</b>			<b>0.9978</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>707.2</b>	<b>549.5</b>	<b>491.7</b>	<b>913.3</b>	<b>677.4</b>	<b>595.9</b>
Time on Time	<b>0.9545</b>	<b>1.2284</b>	<b>1.3727</b>	<b>0.7391</b>	<b>0.9964</b>	<b>1.1328</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1052.5</b>	<b>870.0</b>	<b>770.4</b>	<b>731.5</b>	<b>717.8</b>	<b>714.0</b>	<b>706.9</b>
52°	<b>683.8</b>	<b>576.4</b>	<b>525.0</b>	<b>504.8</b>	<b>498.2</b>	<b>495.5</b>	<b>491.0</b>
60°	<b>643.4</b>	<b>549.9</b>	<b>509.7</b>	<b>491.2</b>	<b>483.0</b>	<b>479.2</b>	<b>475.3</b>
75°	<b>614.1</b>	<b>531.3</b>	<b>498.6</b>	<b>478.5</b>	<b>462.6</b>	<b>453.0</b>	<b>446.7</b>
90°	<b>621.8</b>	<b>530.7</b>	<b>491.0</b>	<b>469.9</b>	<b>455.9</b>	<b>437.8</b>	<b>415.9</b>
110°	<b>623.4</b>	<b>520.9</b>	<b>482.3</b>	<b>454.4</b>	<b>432.6</b>	<b>414.1</b>	<b>392.1</b>
120°	<b>640.9</b>	<b>529.9</b>	<b>486.9</b>	<b>457.4</b>	<b>429.4</b>	<b>405.6</b>	<b>369.4</b>
135°	<b>708.2</b>	<b>573.4</b>	<b>508.0</b>	<b>476.3</b>	<b>448.0</b>	<b>421.2</b>	<b>367.7</b>
150°	<b>835.0</b>	<b>663.8</b>	<b>561.9</b>	<b>506.7</b>	<b>477.5</b>	<b>451.3</b>	<b>402.4</b>
Run VMG	<b>964.2</b>	<b>766.5</b>	<b>648.0</b>	<b>574.9</b>	<b>523.5</b>	<b>489.6</b>	<b>439.8</b>

**Certificate**  
Number **171741**  
ORC Ref **ITA00052639**  
Issued On **21/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **601kg**  
Maximum **645kg**  
Minimum\* **484kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Double H.GPH **631.2 0.9506**  
Double H.OSN **616.1 0.9738**  
Non Spin GPH **654.6 0.9166**  
Non Spin OSN **636.2 0.9432**

Selected Courses							
Windward / Leeward	<b>1008.3</b>	<b>818.3</b>	<b>709.2</b>	<b>653.2</b>	<b>620.6</b>	<b>601.8</b>	<b>573.3</b>
Circular Random	<b>850.4</b>	<b>687.8</b>	<b>601.3</b>	<b>551.6</b>	<b>521.1</b>	<b>500.9</b>	<b>473.6</b>
Coastal / Long Distance	<b>1003.9</b>	<b>768.3</b>	<b>640.5</b>	<b>571.0</b>	<b>533.2</b>	<b>502.1</b>	<b>449.3</b>
Non Spinnaker	<b>912.7</b>	<b>731.9</b>	<b>634.2</b>	<b>577.3</b>	<b>542.4</b>	<b>519.6</b>	<b>490.5</b>

**Sails Limitations**  
Headsails **5** Spinnakers **3**

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>43.3°</b>	<b>42.1°</b>	<b>41.0°</b>	<b>40.0°</b>	<b>40.4°</b>	<b>40.4°</b>	<b>40.8°</b>
Beat VMG	<b>3.42</b>	<b>4.14</b>	<b>4.67</b>	<b>4.92</b>	<b>5.02</b>	<b>5.04</b>	<b>5.09</b>
52°	<b>5.26</b>	<b>6.25</b>	<b>6.86</b>	<b>7.13</b>	<b>7.23</b>	<b>7.27</b>	<b>7.33</b>
60°	<b>5.60</b>	<b>6.55</b>	<b>7.06</b>	<b>7.33</b>	<b>7.45</b>	<b>7.51</b>	<b>7.57</b>
75°	<b>5.86</b>	<b>6.78</b>	<b>7.22</b>	<b>7.52</b>	<b>7.78</b>	<b>7.95</b>	<b>8.06</b>
90°	<b>5.79</b>	<b>6.78</b>	<b>7.33</b>	<b>7.66</b>	<b>7.90</b>	<b>8.22</b>	<b>8.66</b>
110°	<b>5.78</b>	<b>6.91</b>	<b>7.46</b>	<b>7.92</b>	<b>8.32</b>	<b>8.69</b>	<b>9.18</b>
120°	<b>5.62</b>	<b>6.79</b>	<b>7.39</b>	<b>7.87</b>	<b>8.38</b>	<b>8.88</b>	<b>9.74</b>
135°	<b>5.08</b>	<b>6.28</b>	<b>7.09</b>	<b>7.56</b>	<b>8.04</b>	<b>8.55</b>	<b>9.79</b>
150°	<b>4.31</b>	<b>5.42</b>	<b>6.41</b>	<b>7.11</b>	<b>7.54</b>	<b>7.98</b>	<b>8.95</b>
Run VMG	<b>3.73</b>	<b>4.70</b>	<b>5.56</b>	<b>6.26</b>	<b>6.88</b>	<b>7.35</b>	<b>8.19</b>
Gybe Angles	<b>144.8°</b>	<b>148.6°</b>	<b>151.1°</b>	<b>157.7°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **8.854**

**Storm Sails Areas**  
Heavy Weather Jib **25.48**  
Storm Jib (JL=8.93) **9.44**  
Storm Trysail **10.69**

**Owner**

<b>BOAT</b>	
Name <b>TAKE FIVE JR</b> File <b>I17174</b>	Sail Nr <b>ITA-17174</b> Data in <b>meters/kilograms</b>
<b>RIG</b>	
Forestay Tension <b>Aft &amp; Forward</b>	Spreaders <b>2</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>13.050</b>	E <b>4.680</b> MDT1 <b>0.124</b> MW <b>0.184</b>
IG <b>13.700</b>	J <b>4.200</b> MDL1 <b>0.188</b> GO <b>0.195</b>
ISP <b>14.800</b>	SFJ <b>0.100</b> MDT2 <b>0.122</b> BD <b>0.220</b>
BAS <b>1.500</b>	SPL <b>4.190</b> MDL2 <b>0.154</b> MWT <b>146.70</b>
FSP <b>0.076</b>	TPS <b>4.300</b> TL <b>0.950</b> MCG <b>4.900</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>08/04/2019</b>		SG <b>1.0290</b>	
FFM <b>1.266</b>	FF <b>1.260</b>	SFFP <b>0.000</b>	
FAM <b>0.630</b>	FA <b>0.639</b>	SAFP <b>10.300</b>	
W1 <b>64.6</b>	PD1 <b>544.0</b>	WD <b>11.160</b>	
W2 <b>64.6</b>	PD2 <b>545.9</b>	GSA <b>1.0</b>	
W3 <b>64.6</b>	PD3 <b>545.2</b>	RSA <b>1.0</b>	
W4 <b>64.6</b>	PD4 <b>545.3</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>5.584 / 5.812</b>	
Maximum beam station from stem		<b>7.304</b>	
RM Measured		<b>104.2kg·m</b>	
RM Default		<b>112.8kg·m</b>	
Limit of positive stability / Stab.Index		<b>117.0° / 113.7</b>	
Freeboard at mast at 4.300		<b>1.226</b>	



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<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 <b>0.120</b>		
Twin Screw <b>No</b>	PIPA <b>0.0039</b>		
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.350</b>	
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>1.000</b>	

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



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<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>	
	0.370	1.05	1.76	2.96	3.92	36.40	37.14	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>				
	14.61	14.61	14.61	7.50	7.45	91.19		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric on centerline</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	14.61	13.56	14.09	5.52	7.26	68.88 73.66		AS · (SFL + 4·SHW) / 6	

<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>
0.11	0.76	1.42	2.49	3.44	4.44	13.63	32.54	Y	N	29/05/2017	Carbon	J1
0.11	0.74	1.36	2.40	3.37	4.36	13.56	31.54	Y	N	29/05/2017	Carbon	J2
0.09	0.57	1.05	2.03	3.05	4.20	13.15	27.25	N	N	27/04/2016	Carbon	J3
0.00	0.00	0.00	0.00	0.00	3.94	12.07	24.21	Y	N	12/09/2016	Technor	J4
0.00	0.00	0.00	0.00	0.00	3.14	12.58	20.11	N	Y	29/06/2016	Unknow	Staysail

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>FIV 174</b>				
Date <b>08/04/2019</b>				
Comment <b>P. San Rocco</b>				
<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>	
A	Engine	VOLVO	20 HP	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

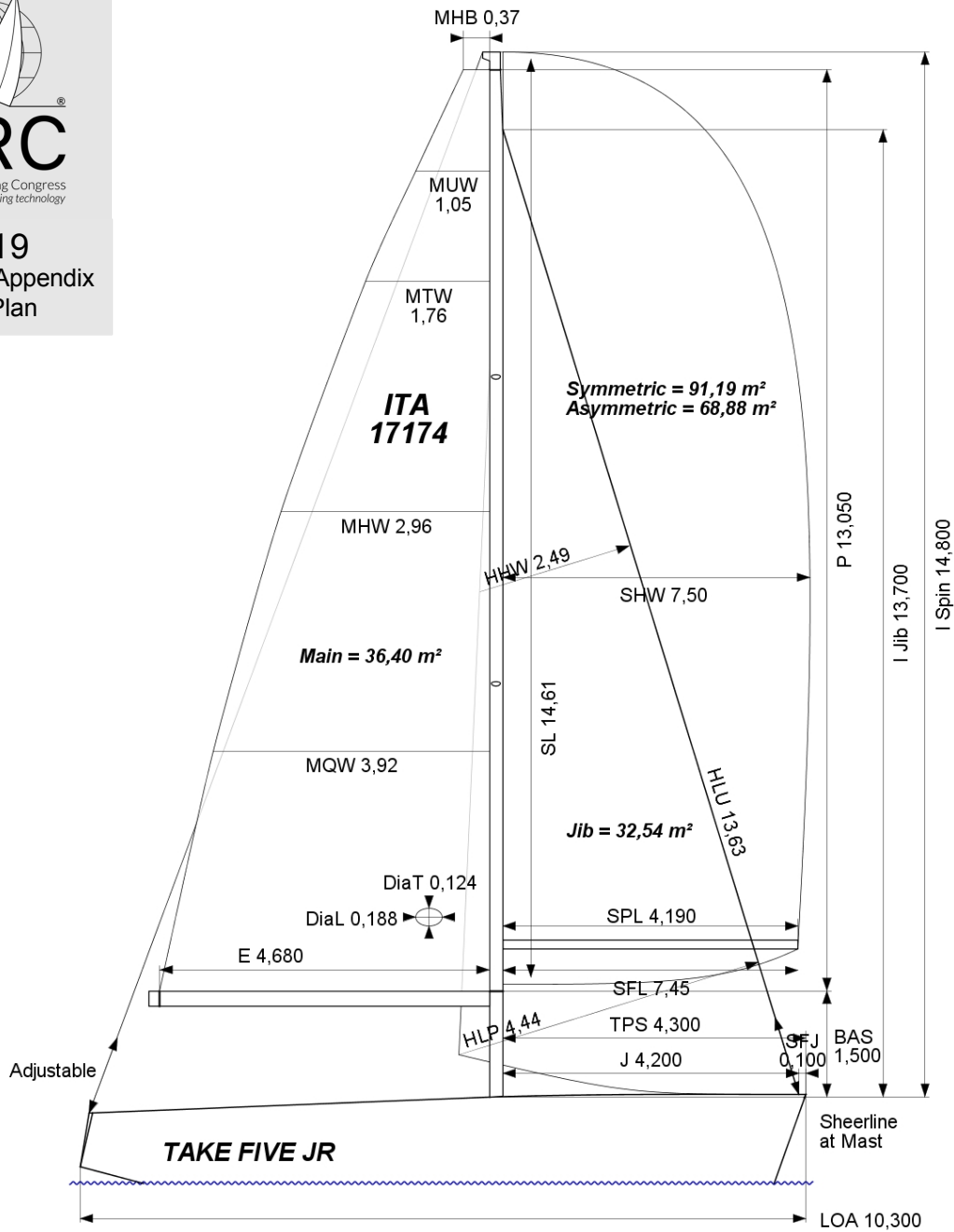
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
A	Tank	WATER	PVC	110.0	4.22	0.00	0-0 EMPTY
B	Tank	FUEL	STEEL	60.0	7.60	0.10	00-0 L
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
A	Ballast	10.4	6.10	0.00 1 LEAD PIG CX			
B	Ballast	10.6	6.05	0.00 1 LEAD PIG SX			
C	Ballast	10.6	6.05	0.00 1 LEAD PIG DX			
D	Ballast	10.3	5.62	0.00 1 LEAD PIG CX			
A	Battery	21.0	4.53	0.00 1x70 Ah			
B	Battery	21.0	4.82	0.00 1x70 Ah			



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**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.37	1.05	1.76	2.96	3.92	36.41		29/05/2017	MILLENNIUM	Carbon	NEW SAIL

**HEADSAILS (5)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.11	0.76	1.42	2.49	3.44	4.44	13.63	106%	32.54	Y	N		29/05/2017	MILLENNIUM	Carbon	J1
F	0.11	0.74	1.36	2.40	3.37	4.36	13.56	104%	31.54	Y	N		29/05/2017	MILLENNIUM	Carbon	J2
C	0.09	0.57	1.05	2.03	3.05	4.20	13.15	100%	27.25	N	N		27/04/2016	MILLENNIUM	Carbon	J3
E	0.00	0.00	0.00	0.00	0.00	3.94	12.07	94%	24.21	Y	N		12/09/2016	Millenium	Technor	J4
D	0.00	0.00	0.00	0.00	0.00	3.14	12.58	75%	20.11	N	Y		29/06/2016	Olimpic Sails	Unknow	Staysail

**SYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
C	14.61	14.61	14.61	7.50	7.45	91.20		29/05/2017	MILLENNIUM	Nylon	S1
B	14.59	14.59	14.59	7.47	7.35	90.54		29/06/2016	Millenium	Nylon	S2
A	14.65	14.65	14.65	7.35	7.50	90.10		27/04/2016		Unknown	

**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	14.61	13.56	14.09	5.52	7.26	68.88	asym		12/09/2016	Millenium	Unknown	A0-TPS=4,3