

<b>BOAT</b> Name <b>L'OTTAVO PECCATO</b> Sail Nr <b>ITA-15321</b>	<b>GPH</b> <b>608.4</b>	<b>HULL</b> Length Overall <b>11.220m</b> Maximum Beam <b>3.478m</b> Displacement <b>5,701kg</b> Draft <b>2.030m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.086%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>M37</b> Designer <b>COSSUTTI</b> Builder <b>2 EMME MARINE</b> Series <b>08/2006</b> Age <b>08/2006</b> Age Allowance <b>0.422%</b> Offset File <b>I15321A.OFF - 24/03/2017 16:29:42</b> Measurement by - <b>30/07/2017</b>		IMSL <b>10.118m</b> VCGD <b>0.107m</b> Sink <b>20.63kg/mm</b> RL <b>8.700m</b> VCGM <b>0.146m</b> WS <b>26.37m<sup>2</sup></b> LSM0 <b>9.876m</b> Displacement/Length ratio <b>5.9184</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>592.7</b>			<b>669.0</b>		
Time on Time	<b>1.0123</b>			<b>1.0089</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>692.8</b>	<b>539.3</b>	<b>487.3</b>	<b>897.2</b>	<b>670.3</b>	<b>594.7</b>
Time on Time	<b>0.9743</b>	<b>1.2516</b>	<b>1.3851</b>	<b>0.7523</b>	<b>1.0070</b>	<b>1.1351</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1040.9</b>	<b>859.3</b>	<b>758.2</b>	<b>715.9</b>	<b>701.8</b>	<b>697.9</b>	<b>688.6</b>
52°	<b>675.9</b>	<b>568.2</b>	<b>513.2</b>	<b>492.5</b>	<b>486.1</b>	<b>483.4</b>	<b>477.6</b>
60°	<b>635.6</b>	<b>540.5</b>	<b>497.1</b>	<b>478.8</b>	<b>471.7</b>	<b>468.5</b>	<b>463.7</b>
75°	<b>604.7</b>	<b>520.9</b>	<b>485.8</b>	<b>466.6</b>	<b>453.1</b>	<b>445.8</b>	<b>440.5</b>
90°	<b>610.1</b>	<b>512.2</b>	<b>476.5</b>	<b>463.8</b>	<b>446.1</b>	<b>430.0</b>	<b>411.5</b>
110°	<b>602.1</b>	<b>504.2</b>	<b>467.0</b>	<b>442.1</b>	<b>424.3</b>	<b>413.3</b>	<b>394.1</b>
120°	<b>618.5</b>	<b>513.5</b>	<b>472.2</b>	<b>444.9</b>	<b>418.8</b>	<b>397.0</b>	<b>373.4</b>
135°	<b>688.3</b>	<b>558.2</b>	<b>493.2</b>	<b>463.0</b>	<b>436.8</b>	<b>411.4</b>	<b>362.1</b>
150°	<b>813.5</b>	<b>649.2</b>	<b>550.9</b>	<b>498.1</b>	<b>474.9</b>	<b>453.6</b>	<b>411.5</b>
Run VMG	<b>939.4</b>	<b>749.6</b>	<b>636.2</b>	<b>575.0</b>	<b>544.3</b>	<b>500.6</b>	<b>453.6</b>

**Certificate**

Number **153211**  
ORC Ref **ITA00051593**  
Issued On **08/04/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default **676kg**  
Maximum **660kg**  
Minimum\* **495kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>617.5</b>	<b>0.9717</b>
Double H.OSN	<b>603.1</b>	<b>0.9949</b>
Non Spin GPH	<b>644.3</b>	<b>0.9312</b>
Non Spin OSN	<b>626.1</b>	<b>0.9583</b>

Selected Courses							
Windward / Leeward	<b>990.1</b>	<b>804.5</b>	<b>697.2</b>	<b>645.5</b>	<b>623.0</b>	<b>599.3</b>	<b>571.1</b>
Circular Random	<b>833.3</b>	<b>674.2</b>	<b>590.2</b>	<b>542.6</b>	<b>514.1</b>	<b>495.5</b>	<b>470.9</b>
Coastal / Long Distance	<b>985.0</b>	<b>754.3</b>	<b>628.1</b>	<b>560.7</b>	<b>526.3</b>	<b>495.3</b>	<b>447.0</b>
Non Spinnaker	<b>900.9</b>	<b>721.4</b>	<b>624.0</b>	<b>567.2</b>	<b>532.3</b>	<b>509.8</b>	<b>481.5</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</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>43.3°</b>	<b>42.0°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.9°</b>	<b>40.5°</b>	<b>40.8°</b>
Beat VMG	<b>3.46</b>	<b>4.19</b>	<b>4.75</b>	<b>5.03</b>	<b>5.13</b>	<b>5.16</b>	<b>5.23</b>
52°	<b>5.33</b>	<b>6.34</b>	<b>7.01</b>	<b>7.31</b>	<b>7.41</b>	<b>7.45</b>	<b>7.54</b>
60°	<b>5.66</b>	<b>6.66</b>	<b>7.24</b>	<b>7.52</b>	<b>7.63</b>	<b>7.68</b>	<b>7.76</b>
75°	<b>5.95</b>	<b>6.91</b>	<b>7.41</b>	<b>7.72</b>	<b>7.94</b>	<b>8.08</b>	<b>8.17</b>
90°	<b>5.90</b>	<b>7.03</b>	<b>7.55</b>	<b>7.76</b>	<b>8.07</b>	<b>8.37</b>	<b>8.75</b>
110°	<b>5.98</b>	<b>7.14</b>	<b>7.71</b>	<b>8.14</b>	<b>8.48</b>	<b>8.71</b>	<b>9.14</b>
120°	<b>5.82</b>	<b>7.01</b>	<b>7.62</b>	<b>8.09</b>	<b>8.60</b>	<b>9.07</b>	<b>9.64</b>
135°	<b>5.23</b>	<b>6.45</b>	<b>7.30</b>	<b>7.78</b>	<b>8.24</b>	<b>8.75</b>	<b>9.94</b>
150°	<b>4.43</b>	<b>5.55</b>	<b>6.53</b>	<b>7.23</b>	<b>7.58</b>	<b>7.94</b>	<b>8.75</b>
Run VMG	<b>3.83</b>	<b>4.80</b>	<b>5.66</b>	<b>6.26</b>	<b>6.61</b>	<b>7.19</b>	<b>7.94</b>
Gybe Angles	<b>144.1°</b>	<b>147.9°</b>	<b>148.5°</b>	<b>150.2°</b>	<b>152.9°</b>	<b>176.4°</b>	<b>177.8°</b>

**Class Division Length**

CDL = **9.410**

**Storm Sails Areas**

Heavy Weather Jib **28.17**  
Storm Jib (JL=9.39) **10.44**  
Storm Trysail **12.39**

**Owner**

<b>BOAT</b>		
Name	L'OTTAVO PECCATO	Sail Nr
File	I15321	Data in
		meters/kilograms

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date			22/07/2017	SG	
		1.0270			
FFM	1.333	FF	1.328	SFFP	0.164
FAM	1.074	FA	1.084	SAFP	11.054
W1	80.0	PD1	543.7	WD	12.060
W2	80.0	PD2	543.0	GSA	1.0
W3	80.0	PD3	539.5	RSA	1.0
W4	80.0	PD4	537.8	PLM	9000.0
LCF from stem on CL / on sheer				6.115 / 6.328	
Maximum beam station from stem				7.237	
RM Measured				140.4kg-m	
RM Default				149.1kg-m	
Limit of positive stability / Stab.Index				114.9° / 117.0	
Freeboard at mast at 4.400				1.272	



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<b>RIG</b>					
Forestay Tension	Aft	Spreaders		2	
Inner Stay	None Fitted	Runners		0	
Carbon Mast	No	Jumper Struts		None	
Taper Hollows	No	Jib Furler		No	
Fiber Rigging	No	Main Furler		No	
Lenticular Rigging	No	Without Backstay		No	
Articulated Bowsprit	No				
P	13.960	E	5.070	MDT1	0.122
IG	14.350	J	4.400	MDL1	0.208
ISP	15.253	SFJ		MDT2	0.109
BAS	1.473	SPL	0.000	MDL2	0.183
FSP	0.078	TPS	5.450	MWT	186.30
		TL	0.834	MCG	5.590

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

<b>PROPELLER</b>			
Installation	Strut	PRD	0.406
Type	Folding 2 blades	PBW	0.113
Twin Screw	No	PIPA	0.0028
ST1	0.046	ST3	0.134
ST2	0.134	ST4	0.089
		ST5	0.307
		EDL	0.945

<b>COMMENTS</b>	

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



**Invalid for racing**

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<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.650	1.29	2.05	3.27	4.22	43.17	44.16	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	17.03	13.72	15.38	8.73	8.02	110.03	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>HBB</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>
0.12	0.81	1.47	2.57	3.52	4.51	13.99	34.27	Y	N	25/07/2017	Carbon	NUOVA MAX
0.14	0.76	1.38	2.45	3.45	4.48	14.01	33.37	Y	N	25/07/2017	Carbon	

<b>MEASUREMENT INVENTORY</b>				
Measurer 162				
Date 22/07/2017				
Comment Condizioni ottime				
<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>	
A	Engine	LOMBARDINI	30HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

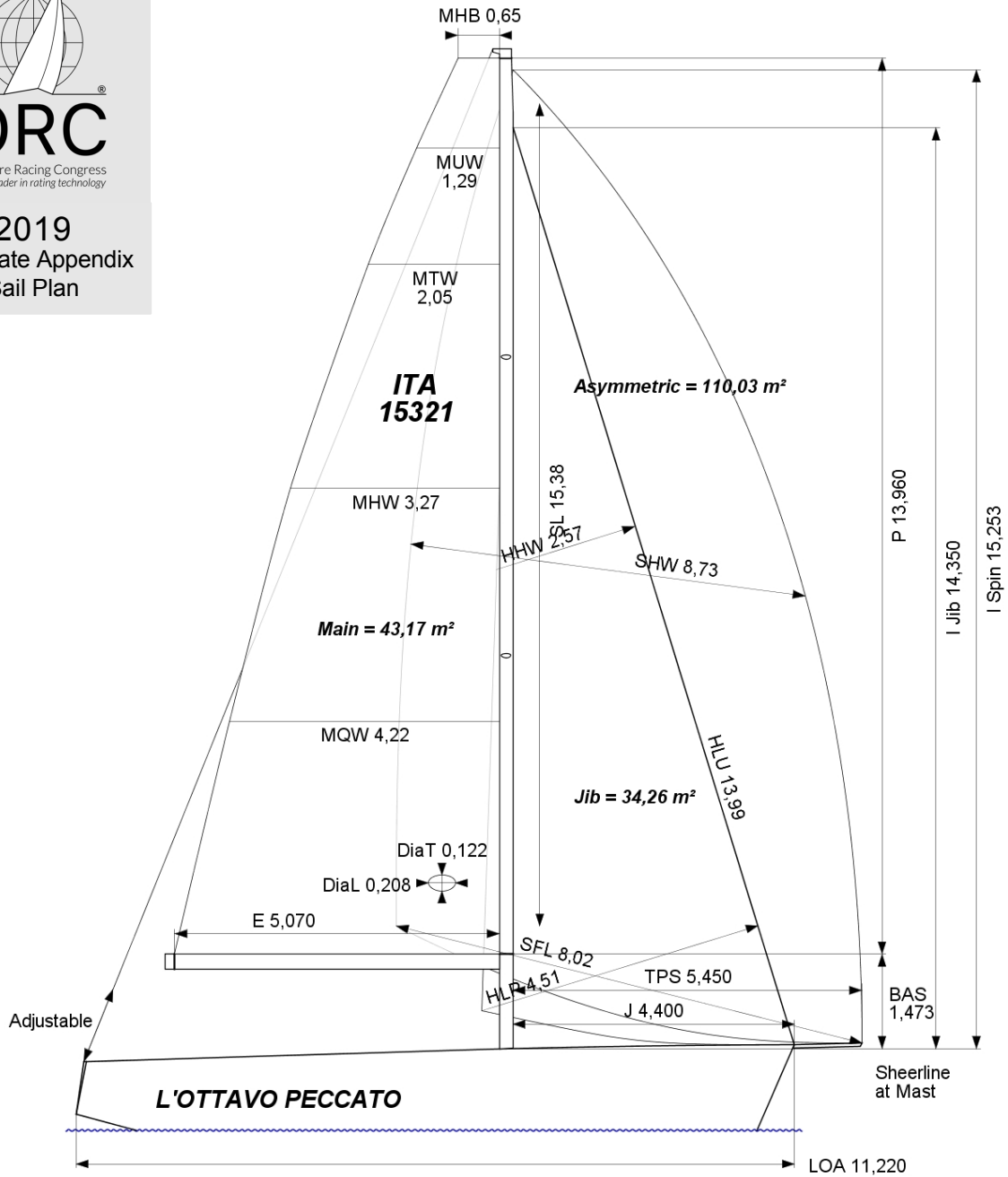
<b>MEASUREMENT INVENTORY</b>							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
B	Tank	WATER	PVC	220.0	8.54	0.00	0-0 VUOTO
A	Tank	FUEL	PVC	88.0	8.04	0.00	88.0 LT
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
A	Ballast	53.7	4.70	0.00 4 PANI PB DX-SX			
B	Ballast	118.3	5.40	0.00 11 PANI PB DX-CX-SX			
C	Ballast	6.6	5.80	0.00 5 PANI PB CX			
D	Ballast	57.2	6.30	0.00 9 PANI PB CX			
E	Ballast	203.8	6.61	0.00 10 PANI PB DX-CX-SX			
A	Battery	34.0	3.67	0.00 132 Ah			
B	Battery	26.0	5.64	0.00 100 Ah			
C	Battery	26.0	4.84	0.00 100 Ah			
A	Misc	12.0	8.55	0.00 CARICABATTERIE			



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
C	0.65	1.29	2.05	3.27	4.22	43.18		25/07/2017	NORTH	Carbon	NUOVA MAX					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
D	0.12	0.81	1.47	2.57	3.52	4.51	13.99	102%	34.27	Y	N		25/07/2017	NORTH	Carbon	NUOVA MAX
E	0.14	0.76	1.38	2.45	3.45	4.48	14.01	102%	33.37	Y	N		25/07/2017	NORTH	Carbon	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
D	17.03	13.72	15.38	8.73	8.02	110.04	asym		25/07/2017	NORTH	Carbon	A2				
E	16.61	14.05	15.33	8.39	8.17	106.63	asym		25/07/2017	NORTH	Carbon	A1.5				