

<b>BOAT</b> Name <b>ESCANDALO</b> Sail Nr <b>ITA-137</b>	<b>GPH</b> <b>609.6</b>	<b>HULL</b> Length Overall <b>11.220m</b> Maximum Beam <b>3.478m</b> Displacement <b>5,893kg</b> Draft <b>1.998m</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>05/2008</b> Age Allowance <b>0.422%</b> Offset File <b>m37mk11.off - 12/05/2011 11:45:36</b> Measurement by - <b>23/05/2019</b>		IMSL <b>10.170m</b> VCGD <b>0.149m</b> Sink <b>20.75kg/mm</b> RL <b>8.582m</b> VCGM <b>0.181m</b> WS <b>27.30m<sup>2</sup></b> LSM0 <b>9.964m</b> Displacement/Length ratio <b>5.9571</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>593.5</b>			<b>666.4</b>		
Time on Time	<b>1.0110</b>			<b>1.0130</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>697.3</b>	<b>539.8</b>	<b>484.5</b>	<b>904.0</b>	<b>668.1</b>	<b>585.1</b>
Time on Time	<b>0.9680</b>	<b>1.2505</b>	<b>1.3931</b>	<b>0.7467</b>	<b>1.0104</b>	<b>1.1537</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1046.7</b>	<b>862.7</b>	<b>761.4</b>	<b>720.8</b>	<b>706.4</b>	<b>702.1</b>	<b>692.0</b>
52°	<b>679.0</b>	<b>569.7</b>	<b>514.0</b>	<b>494.1</b>	<b>487.7</b>	<b>485.1</b>	<b>478.3</b>
60°	<b>638.2</b>	<b>541.5</b>	<b>497.3</b>	<b>479.5</b>	<b>473.1</b>	<b>470.1</b>	<b>464.5</b>
75°	<b>606.8</b>	<b>521.4</b>	<b>485.8</b>	<b>466.8</b>	<b>454.3</b>	<b>448.0</b>	<b>443.2</b>
90°	<b>612.0</b>	<b>514.4</b>	<b>477.6</b>	<b>463.8</b>	<b>446.4</b>	<b>431.2</b>	<b>414.5</b>
110°	<b>606.8</b>	<b>506.3</b>	<b>468.2</b>	<b>443.8</b>	<b>426.3</b>	<b>415.3</b>	<b>396.7</b>
120°	<b>624.0</b>	<b>516.3</b>	<b>473.5</b>	<b>446.6</b>	<b>420.8</b>	<b>399.4</b>	<b>374.9</b>
135°	<b>695.7</b>	<b>563.1</b>	<b>495.2</b>	<b>464.5</b>	<b>438.8</b>	<b>413.5</b>	<b>365.1</b>
150°	<b>822.8</b>	<b>655.2</b>	<b>554.4</b>	<b>495.9</b>	<b>466.7</b>	<b>442.9</b>	<b>397.0</b>
Run VMG	<b>950.1</b>	<b>756.6</b>	<b>640.0</b>	<b>565.2</b>	<b>515.0</b>	<b>479.3</b>	<b>432.7</b>

**Certificate**  
Number **1371**  
ORC Ref **ITA00052713**  
Issued On **23/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **685kg**  
Maximum **670kg**  
Minimum\* **503kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>619.2</b>	<b>0.9690</b>
Double H.OSN	<b>604.3</b>	<b>0.9929</b>
Non Spin GPH	<b>644.0</b>	<b>0.9317</b>
Non Spin OSN	<b>626.0</b>	<b>0.9584</b>

Selected Courses							
Windward / Leeward	<b>998.4</b>	<b>809.7</b>	<b>700.7</b>	<b>643.0</b>	<b>610.7</b>	<b>590.7</b>	<b>562.3</b>
Circular Random	<b>837.9</b>	<b>676.9</b>	<b>591.3</b>	<b>542.3</b>	<b>512.6</b>	<b>493.2</b>	<b>467.8</b>
Coastal / Long Distance	<b>993.6</b>	<b>759.1</b>	<b>630.8</b>	<b>560.7</b>	<b>523.2</b>	<b>493.4</b>	<b>444.9</b>
Non Spinnaker	<b>900.3</b>	<b>720.9</b>	<b>623.8</b>	<b>567.2</b>	<b>532.6</b>	<b>510.2</b>	<b>481.8</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>43.6°</b>	<b>42.2°</b>	<b>41.4°</b>	<b>40.8°</b>	<b>40.1°</b>	<b>40.0°</b>	<b>40.8°</b>
Beat VMG	<b>3.44</b>	<b>4.17</b>	<b>4.73</b>	<b>4.99</b>	<b>5.10</b>	<b>5.13</b>	<b>5.20</b>
52°	<b>5.30</b>	<b>6.32</b>	<b>7.00</b>	<b>7.29</b>	<b>7.38</b>	<b>7.42</b>	<b>7.53</b>
60°	<b>5.64</b>	<b>6.65</b>	<b>7.24</b>	<b>7.51</b>	<b>7.61</b>	<b>7.66</b>	<b>7.75</b>
75°	<b>5.93</b>	<b>6.90</b>	<b>7.41</b>	<b>7.71</b>	<b>7.92</b>	<b>8.04</b>	<b>8.12</b>
90°	<b>5.88</b>	<b>7.00</b>	<b>7.54</b>	<b>7.76</b>	<b>8.06</b>	<b>8.35</b>	<b>8.68</b>
110°	<b>5.93</b>	<b>7.11</b>	<b>7.69</b>	<b>8.11</b>	<b>8.44</b>	<b>8.67</b>	<b>9.08</b>
120°	<b>5.77</b>	<b>6.97</b>	<b>7.60</b>	<b>8.06</b>	<b>8.56</b>	<b>9.01</b>	<b>9.60</b>
135°	<b>5.17</b>	<b>6.39</b>	<b>7.27</b>	<b>7.75</b>	<b>8.20</b>	<b>8.71</b>	<b>9.86</b>
150°	<b>4.38</b>	<b>5.49</b>	<b>6.49</b>	<b>7.26</b>	<b>7.71</b>	<b>8.13</b>	<b>9.07</b>
Run VMG	<b>3.79</b>	<b>4.76</b>	<b>5.62</b>	<b>6.37</b>	<b>6.99</b>	<b>7.51</b>	<b>8.32</b>
Gybe Angles	<b>144.0°</b>	<b>147.8°</b>	<b>150.4°</b>	<b>156.4°</b>	<b>172.4°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **9.377**

**Storm Sails Areas**  
Heavy Weather Jib **28.04**  
Storm Jib (JL=9.37) **10.39**  
Storm Trysail **12.58**

**Owner**

<b>BOAT</b>		
Name	ESCANDALO	Sail Nr
File	I137	Data in
		meters/kilograms

<b>RIG</b>		
Forestay Tension	Aft	Spreaders
Inner Stay	None Fitted	Runners
Carbon Mast	No	Jumper Struts
Taper Hollows	No	Jib Furler
Fiber Rigging	Yes	Main Furler
Lenticular Rigging	No	Without Backstay
Articulated Bowsprit	No	
P	13.950	E
IG	14.410	J
ISP	15.500	SFJ
BAS	1.525	SPL
FSP	0.072	TPS
MDT1	0.122	MW
MDL1	0.222	GO
MDT2	0.114	BD
MDL2	0.197	MWT
TL	0.599	MCG

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date	23/05/2019	SG
		1.0070
FFM	1.300	FF
FAM	1.089	FA
W1	82.6	PD1
W2	82.6	PD2
W3	82.6	PD3
W4	82.6	PD4
SFFP	0.164	WD
SAFP	11.054	GSA
		1.0
		RSA
		1.0
		PLM
		9000.0
LCF from stem on CL / on sheer		6.087 / 6.302
Maximum beam station from stem		7.237
RM Measured		134.5kg-m
RM Default		152.4kg-m
Limit of positive stability / Stab.Index		112.9° / 115.4
Freeboard at mast at 4.400		1.263



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

<b>PROPELLER</b>		
Installation	Strut	PRD
Type	Folding 2 blades	PBW
Twin Screw	No	PIPA
		0.0039
ST1	0.065	ST3
ST2	0.180	ST4
		0.110
		EDL
		0.945

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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>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.460	1.25	2.06	3.38	4.39	44.05	45.16	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	15.15	15.15	15.15	8.28	8.29	104.56		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	16.92	15.57	16.25	7.91	8.78	109.44		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)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.13	0.81	1.50	2.60	3.55	4.55	14.52	35.94			23/05/2019	Carbon	LIGHT #1 REMEASURED
0.07					3.90	14.10	27.94			23/05/2019	Carbon	JIB #3

<b>MEASUREMENT INVENTORY</b>				
Measurer	85			
Date	23/05/2019			
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO PENTA	30 HP	
Id	Item	Weight Description		

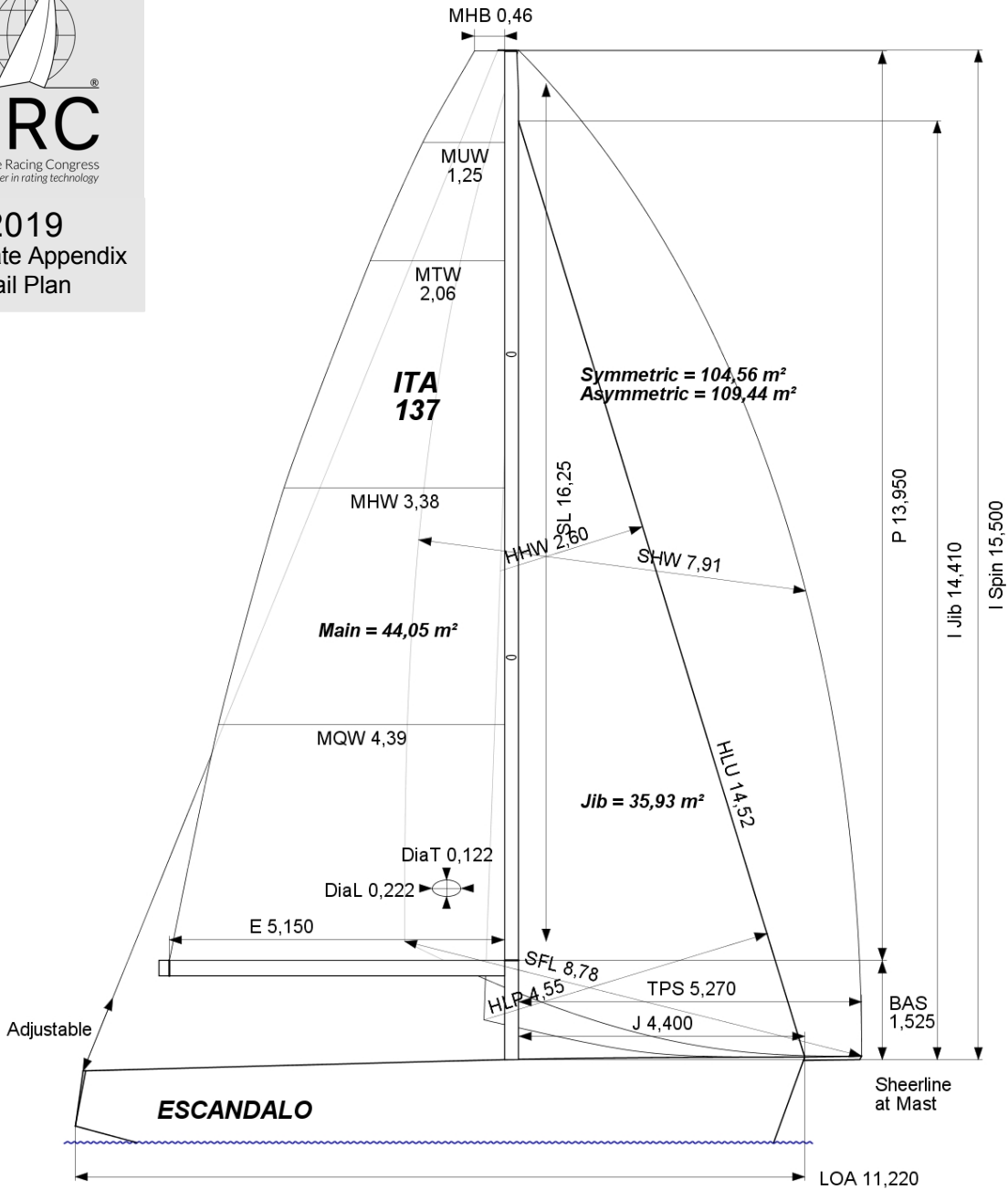
<b>MEASUREMENT INVENTORY</b>							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	FUEL	PVC	60.0	4.10	0.00	40.0 L
B	Tank	WATER	PVC	100.0	2.00	0.00	0.0 EMPTY - CX
C	Tank	WATER	PVC	100.0	9.00	0.00	0.0 EMPTY - CX
Id	Item	Weight	Distance	VCG Description			
A	Ballast	23.5	3.50	0.00 2 PANI CX			
B	Ballast	50.6	3.85	0.00 4 PANI CX+DX			
C	Ballast	82.4	4.35	0.00 5 PANI SX+DX			
D	Ballast	102.7	5.05	0.00 9 PANI SX+CX+DX			
E	Ballast	18.0	3.10	0.00 2 PANI			
A	Battery	55.0	5.50	0.00 2x110 Ah DX			
B	Battery	27.0	5.80	0.00 1x80 Ah DX			
B	Misc	86.4	3.60	0.00 10 PANI CX			
A	Misc	15.0	8.20	0.00 BOILER SX			
C	Misc	129.3	5.63	0.00 14 PANI			



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**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.46	1.25	2.06	3.38	4.39	44.05		23/05/2019	NORTH	Carbon	REMEASURED

**HEADSAILS (2)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.13	0.81	1.50	2.60	3.55	4.55	14.52	103%	35.94				23/05/2019	NORTH	Carbon	LIGHT #1
F	0.07					3.90	14.10	89%	27.94				23/05/2019	OLIMPIC	Carbon	JIB #3

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
D	15.15	15.15	15.15	8.28	8.29	104.57		20/05/2019	EUROSAIL	Nylon	NEW

**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
D	16.92	15.57	16.25	7.91	8.78	109.44	asym		20/05/2019	EUROSAIL	Nylon	NEW