

<b>BOAT</b> Name <b>DUE R ... NEL VENTO</b> Sail Nr <b>ITA-16090</b>	<b>GPH</b> <b>574.9</b>	<b>HULL</b> Length Overall <b>12.240m</b> Maximum Beam <b>3.902m</b> Displacement <b>7,493kg</b> Draft <b>2.470m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.058%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 40'</b> Designer <b>FARR</b> Builder <b>BENETEAU</b> Series <b>10/2008</b> Age <b>03/2009</b> Age Allowance <b>0.357%</b> Offset File <b>I16090A.off - 23/04/2019 21:06:14</b> Measurement by - <b>31/05/2019</b>		IMSL <b>11.157m</b> VCGD <b>-0.025m</b> Sink <b>23.71kg/mm</b> RL <b>9.851m</b> VCGM <b>-0.037m</b> WS <b>31.74m<sup>2</sup></b> LSM0 <b>10.948m</b> Displacement/Length ratio <b>5.7102</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>559.8</b>			<b>625.9</b>		
Time on Time	<b>1.0717</b>			<b>1.0785</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>652.6</b>	<b>510.7</b>	<b>459.0</b>	<b>842.8</b>	<b>628.1</b>	<b>550.3</b>
Time on Time	<b>1.0343</b>	<b>1.3216</b>	<b>1.4707</b>	<b>0.8009</b>	<b>1.0747</b>	<b>1.2265</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>960.5</b>	<b>792.6</b>	<b>705.3</b>	<b>672.8</b>	<b>659.4</b>	<b>652.0</b>	<b>639.3</b>
52°	<b>630.5</b>	<b>530.1</b>	<b>485.2</b>	<b>470.3</b>	<b>464.5</b>	<b>461.7</b>	<b>454.0</b>
60°	<b>596.5</b>	<b>508.1</b>	<b>471.8</b>	<b>457.5</b>	<b>451.7</b>	<b>448.6</b>	<b>442.1</b>
75°	<b>570.3</b>	<b>493.2</b>	<b>462.2</b>	<b>445.7</b>	<b>434.5</b>	<b>428.2</b>	<b>422.6</b>
90°	<b>575.2</b>	<b>488.2</b>	<b>460.3</b>	<b>442.7</b>	<b>426.8</b>	<b>412.9</b>	<b>395.1</b>
110°	<b>573.2</b>	<b>480.9</b>	<b>446.9</b>	<b>426.0</b>	<b>412.9</b>	<b>402.0</b>	<b>381.3</b>
120°	<b>588.1</b>	<b>489.1</b>	<b>451.2</b>	<b>426.2</b>	<b>402.1</b>	<b>385.2</b>	<b>361.9</b>
135°	<b>657.2</b>	<b>531.7</b>	<b>471.0</b>	<b>442.9</b>	<b>418.3</b>	<b>393.3</b>	<b>343.7</b>
150°	<b>779.0</b>	<b>622.3</b>	<b>526.5</b>	<b>473.0</b>	<b>445.8</b>	<b>422.9</b>	<b>377.3</b>
Run VMG	<b>899.5</b>	<b>718.5</b>	<b>608.0</b>	<b>539.4</b>	<b>494.0</b>	<b>459.8</b>	<b>415.0</b>

**Certificate**  
Number **160901**  
ORC Ref **ITA00052988**  
Issued On **01/06/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **783kg**  
Maximum **740kg**  
Minimum\* **555kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>584.1</b>	<b>1.0272</b>
Double H.OSN	<b>570.2</b>	<b>1.0523</b>
Non Spin GPH	<b>610.6</b>	<b>0.9826</b>
Non Spin OSN	<b>594.2</b>	<b>1.0098</b>

Selected Courses							
Windward / Leeward	<b>930.0</b>	<b>755.5</b>	<b>656.7</b>	<b>606.1</b>	<b>576.7</b>	<b>555.9</b>	<b>527.1</b>
Circular Random	<b>786.2</b>	<b>636.9</b>	<b>558.0</b>	<b>513.0</b>	<b>485.5</b>	<b>467.0</b>	<b>441.6</b>
Coastal / Long Distance	<b>926.9</b>	<b>709.8</b>	<b>593.5</b>	<b>530.5</b>	<b>496.2</b>	<b>468.5</b>	<b>423.2</b>
Non Spinnaker	<b>851.0</b>	<b>682.6</b>	<b>591.7</b>	<b>538.6</b>	<b>505.9</b>	<b>484.3</b>	<b>456.3</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</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>42.7°</b>	<b>41.2°</b>	<b>40.1°</b>	<b>39.0°</b>	<b>38.6°</b>	<b>38.2°</b>	<b>38.9°</b>
Beat VMG	<b>3.75</b>	<b>4.54</b>	<b>5.10</b>	<b>5.35</b>	<b>5.46</b>	<b>5.52</b>	<b>5.63</b>
52°	<b>5.71</b>	<b>6.79</b>	<b>7.42</b>	<b>7.65</b>	<b>7.75</b>	<b>7.80</b>	<b>7.93</b>
60°	<b>6.04</b>	<b>7.09</b>	<b>7.63</b>	<b>7.87</b>	<b>7.97</b>	<b>8.03</b>	<b>8.14</b>
75°	<b>6.31</b>	<b>7.30</b>	<b>7.79</b>	<b>8.08</b>	<b>8.29</b>	<b>8.41</b>	<b>8.52</b>
90°	<b>6.26</b>	<b>7.37</b>	<b>7.82</b>	<b>8.13</b>	<b>8.43</b>	<b>8.72</b>	<b>9.11</b>
110°	<b>6.28</b>	<b>7.49</b>	<b>8.06</b>	<b>8.45</b>	<b>8.72</b>	<b>8.96</b>	<b>9.44</b>
120°	<b>6.12</b>	<b>7.36</b>	<b>7.98</b>	<b>8.45</b>	<b>8.95</b>	<b>9.35</b>	<b>9.95</b>
135°	<b>5.48</b>	<b>6.77</b>	<b>7.64</b>	<b>8.13</b>	<b>8.61</b>	<b>9.15</b>	<b>10.47</b>
150°	<b>4.62</b>	<b>5.79</b>	<b>6.84</b>	<b>7.61</b>	<b>8.08</b>	<b>8.51</b>	<b>9.54</b>
Run VMG	<b>4.00</b>	<b>5.01</b>	<b>5.92</b>	<b>6.67</b>	<b>7.29</b>	<b>7.83</b>	<b>8.68</b>
Gybe Angles	<b>143.0°</b>	<b>147.1°</b>	<b>149.8°</b>	<b>156.0°</b>	<b>170.2°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **10.505**

**Storm Sails Areas**  
Heavy Weather Jib **37.25**  
Storm Jib (JL=10.80) **13.80**  
Storm Trysail **15.40**

**Owner**

<b>BOAT</b>	
Name <b>DUE R ... NEL</b>	Sail Nr <b>ITA-16090</b>
File <b>I16090</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>3</b>
Inner Stay <b>Fixed</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>15.850</b>	E <b>5.551</b> MDT1 <b>0.130</b> MW <b>0.234</b>
IG <b>16.522</b>	J <b>4.590</b> MDL1 <b>0.234</b> GO <b>0.258</b>
ISP <b>17.840</b>	SFJ <b>0.000</b> MDT2 <b>0.130</b> BD <b>0.225</b>
BAS <b>1.735</b>	SPL <b>5.100</b> MDL2 <b>0.185</b> MWT <b>236.00</b>
FSP <b>0.068</b>	TPS <b>5.900</b> TL <b>1.040</b> MCG <b>5.960</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>19/04/2019</b>		SG <b>1.0270</b>
FFM <b>1.379</b>	FF <b>1.376</b>	SFFP <b>0.261</b>
FAM <b>1.078</b>	FA <b>1.082</b>	SAFP <b>11.831</b>
W1 <b>106.0</b>	PD1 <b>604.1</b>	WD <b>13.940</b>
W2 <b>106.0</b>	PD2 <b>606.9</b>	GSA <b>1.0</b>
W3 <b>106.0</b>	PD3 <b>605.3</b>	RSA <b>1.0</b>
W4 <b>106.0</b>	PD4 <b>607.3</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>6.630 / 6.887</b>
Maximum beam station from stem		<b>7.802</b>
RM Measured		<b>192.1kg-m</b>
RM Default		<b>198.3kg-m</b>
Limit of positive stability / Stab.Index		<b>121.9° / 124.2</b>
Freeboard at mast at 4.590		<b>1.260</b>



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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.476</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.122</b>	
Twin Screw <b>No</b>	PIPA <b>0.0038</b>	
ST1 <b>0.050</b>	ST3 <b>0.180</b> ST5 <b>0.310</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b> EDL <b>2.212</b>	

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Valid until <b>31/12/2019</b>	

<b>COMMENTS</b>	
SBARCA TE PANCHE IN POZZETTO RIMOSSO SALPAANCORE ACL	

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



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<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.340	1.33	2.24	3.62	4.65	53.40	54.60	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17.76	17.76	17.76	9.38	9.04	137.82	SL · (SFL + 4·SHW) / 6		
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	19.58	17.48	18.53	9.20	9.79	143.89	AS · (SFL + 4·SHW) / 6		

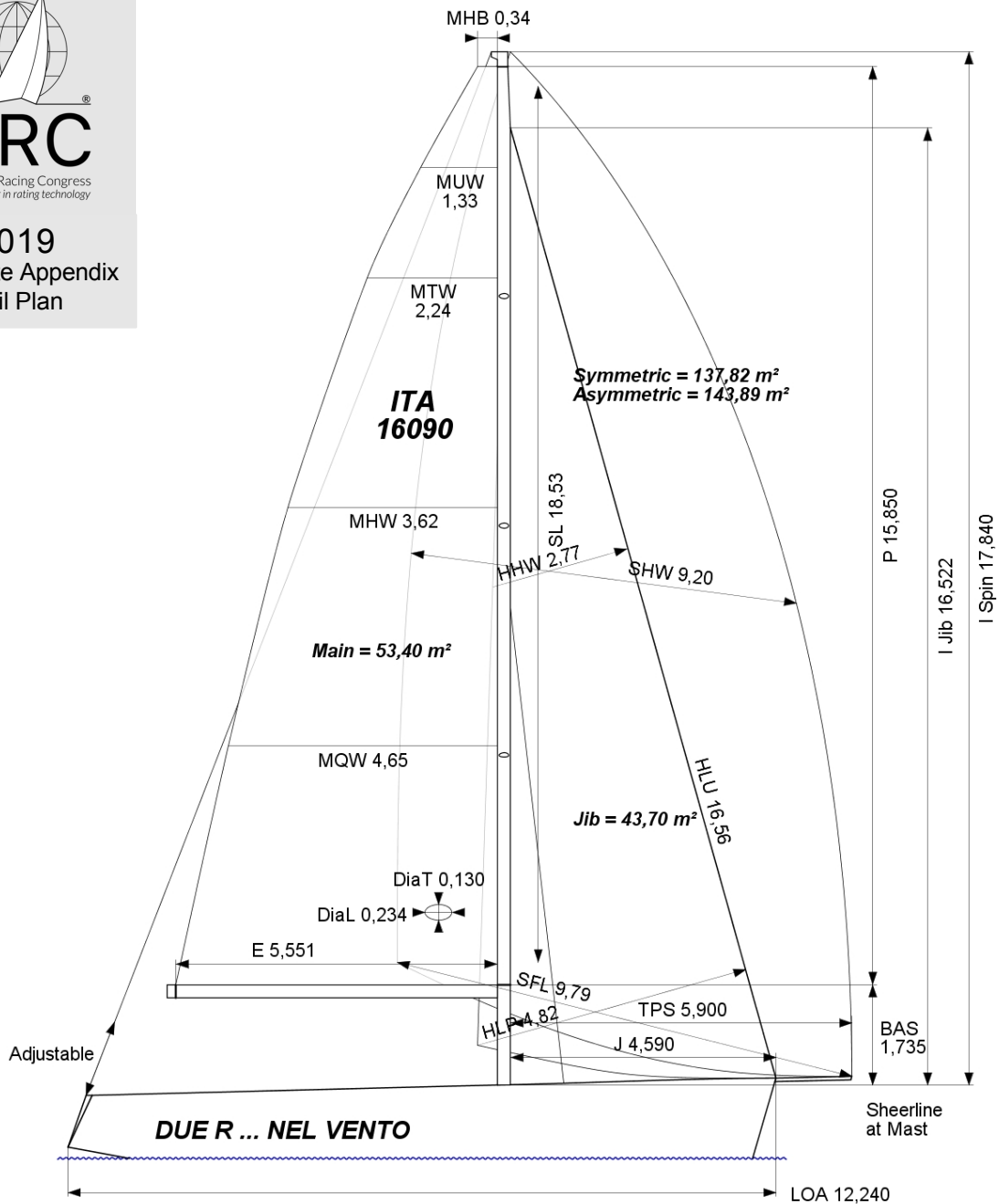
<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.13	0.88	1.58	2.77	3.82	4.82	16.56	43.71	Y	N	15/05/2019	Twaron	J2
0.09	0.87	1.59	2.76	3.80	4.83	16.32	42.96	Y	N	09/04/2016	Unknow	
0.09	0.86	1.59	2.77	3.79	4.82	16.32	42.92	Y	N	09/04/2016	Unknow	
0.10	0.58	1.09	2.19	3.38	4.58	16.03	36.11	N	N	10/03/2015	Unknow	

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>120</b>				
Date <b>19/04/2019</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>	
A	Engine	YANMAR	40 HP	
<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>
A	Tank	WATER	PVC	200.0	5.50	0.00	0-0 2 x 100 LT
B	Tank	FUEL	PVC	130.0	9.70	0.00	30-0 L
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
A	Battery	21.0	7.30	0.00 1 x 110 Ah			
B	Battery	42.0	8.90	0.00 2 x 110 Ah			
A	Misc	0.0	5.40	0.00 BOILER 25 LT			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (3)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
C	0.34	1.33	2.24	3.62	4.65	53.40		15/05/2019	OLIMPIC	Twaron	
B	0.32	1.27	2.18	3.62	4.67	53.16		09/04/2018	OLIMPIC	Unknown	RM 09/04/16

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
D	0.13	0.88	1.58	2.77	3.82	4.82	16.56	105%	43.71	Y	N		15/05/2019	OLIMPIC	Twaron	J2
C	0.09	0.87	1.59	2.76	3.80	4.83	16.32	105%	42.96	Y	N		09/04/2016	OLIMPIC S.	Unknown	
B	0.09	0.86	1.59	2.77	3.79	4.82	16.32	105%	42.92	Y	N		09/04/2016	OLIMPIC S.	Unknown	
A	0.10	0.58	1.09	2.19	3.38	4.58	16.03	100%	36.11	N	N		10/03/2015	OLIMPIC S.	Unknown	

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	17.76	17.76	17.76	9.38	9.04	137.82		27/07/2015	OLIMPIC	Unknown	S3
B	17.74	17.74	17.74	9.37	9.06	137.61		31/05/2019		Nylon	S2

**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
C	19.58	17.48	18.53	9.20	9.79	143.89	asym		15/05/2019	OLIMPIC	Nylon	A1