

<b>BOAT</b>	<b>GPH</b>	<b>HULL</b>
Name <b>MAN</b> Sail Nr <b>ITA-14942</b>	<b>551.8</b>	Length Overall <b>12.690m</b> Maximum Beam <b>3.698m</b> Displacement <b>6,331kg</b> Draft <b>2.541m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b>		IMSL <b>10.959m</b> VCGD <b>-0.042m</b> Sink <b>23.45kg/mm</b> RL <b>11.119m</b> VCGM <b>-0.080m</b> WS <b>30.06m<sup>2</sup></b> LSM0 <b>10.510m</b> Displacement/Length ratio <b>5.4534</b>
Class <b>GRAND SOLEIL 42R05</b> Designer <b>BOTIN-CARKEEK</b> Builder <b>DEL PARDO</b> Series <b>04/2005</b> Age <b>05/2005</b> Age Allowance <b>0.455%</b> Offset File <b>GS42R05.OFF - 14/04/2005 22:13:24</b> Measurement by - <b>21/05/2019</b>		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>536.4</b>			<b>600.2</b>		
Time on Time	<b>1.1185</b>			<b>1.1247</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>630.7</b>	<b>489.3</b>	<b>434.9</b>	<b>816.3</b>	<b>603.2</b>	<b>524.6</b>
Time on Time	<b>1.0702</b>	<b>1.3794</b>	<b>1.5522</b>	<b>0.8269</b>	<b>1.1190</b>	<b>1.2866</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>906.6</b>	<b>740.3</b>	<b>659.2</b>	<b>633.3</b>	<b>621.6</b>	<b>608.7</b>	<b>601.7</b>
52°	<b>595.6</b>	<b>496.1</b>	<b>461.1</b>	<b>451.0</b>	<b>445.9</b>	<b>442.0</b>	<b>433.9</b>
60°	<b>563.8</b>	<b>478.8</b>	<b>449.7</b>	<b>438.4</b>	<b>432.5</b>	<b>429.1</b>	<b>418.2</b>
75°	<b>540.8</b>	<b>468.5</b>	<b>440.3</b>	<b>421.9</b>	<b>411.4</b>	<b>405.3</b>	<b>396.5</b>
90°	<b>543.3</b>	<b>470.5</b>	<b>440.3</b>	<b>417.8</b>	<b>398.0</b>	<b>384.2</b>	<b>371.4</b>
110°	<b>568.2</b>	<b>471.2</b>	<b>433.3</b>	<b>406.3</b>	<b>390.1</b>	<b>376.8</b>	<b>353.6</b>
120°	<b>587.1</b>	<b>481.2</b>	<b>439.6</b>	<b>409.4</b>	<b>381.7</b>	<b>362.2</b>	<b>335.2</b>
135°	<b>655.5</b>	<b>527.1</b>	<b>462.5</b>	<b>431.2</b>	<b>403.1</b>	<b>376.7</b>	<b>320.4</b>
150°	<b>780.6</b>	<b>621.0</b>	<b>521.6</b>	<b>464.4</b>	<b>434.9</b>	<b>408.7</b>	<b>359.0</b>
Run VMG	<b>901.4</b>	<b>717.0</b>	<b>602.3</b>	<b>530.5</b>	<b>484.8</b>	<b>449.9</b>	<b>400.2</b>

**Certificate**

Number **149421**  
ORC Ref **ITA00052745**  
Issued On **23/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default **739kg**  
Maximum **950kg**  
Minimum\* **713kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

Special Scoring	
ToD	ToT
Double H.GPH <b>563.6</b>	<b>1.0645</b>
Double H.OSN <b>550.5</b>	<b>1.0899</b>
Non Spin GPH <b>580.1</b>	<b>1.0343</b>
Non Spin OSN <b>564.7</b>	<b>1.0626</b>

Selected Courses							
Windward / Leeward	<b>904.0</b>	<b>728.7</b>	<b>630.7</b>	<b>581.9</b>	<b>553.2</b>	<b>529.3</b>	<b>501.0</b>
Circular Random	<b>759.2</b>	<b>613.1</b>	<b>535.4</b>	<b>490.4</b>	<b>462.4</b>	<b>443.2</b>	<b>416.9</b>
Coastal / Long Distance	<b>903.8</b>	<b>685.5</b>	<b>570.4</b>	<b>508.2</b>	<b>473.5</b>	<b>443.9</b>	<b>398.7</b>
Non Spinnaker	<b>809.7</b>	<b>649.1</b>	<b>562.2</b>	<b>511.1</b>	<b>479.1</b>	<b>457.5</b>	<b>428.9</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>42.6°</b>	<b>41.6°</b>	<b>39.5°</b>	<b>38.1°</b>	<b>37.7°</b>	<b>36.8°</b>	<b>37.2°</b>
Beat VMG	<b>3.97</b>	<b>4.86</b>	<b>5.46</b>	<b>5.68</b>	<b>5.79</b>	<b>5.91</b>	<b>5.98</b>
52°	<b>6.04</b>	<b>7.26</b>	<b>7.81</b>	<b>7.98</b>	<b>8.07</b>	<b>8.15</b>	<b>8.30</b>
60°	<b>6.38</b>	<b>7.52</b>	<b>8.01</b>	<b>8.21</b>	<b>8.32</b>	<b>8.39</b>	<b>8.61</b>
75°	<b>6.66</b>	<b>7.68</b>	<b>8.18</b>	<b>8.53</b>	<b>8.75</b>	<b>8.88</b>	<b>9.08</b>
90°	<b>6.63</b>	<b>7.65</b>	<b>8.18</b>	<b>8.62</b>	<b>9.04</b>	<b>9.37</b>	<b>9.69</b>
110°	<b>6.34</b>	<b>7.64</b>	<b>8.31</b>	<b>8.86</b>	<b>9.23</b>	<b>9.55</b>	<b>10.18</b>
120°	<b>6.13</b>	<b>7.48</b>	<b>8.19</b>	<b>8.79</b>	<b>9.43</b>	<b>9.94</b>	<b>10.74</b>
135°	<b>5.49</b>	<b>6.83</b>	<b>7.78</b>	<b>8.35</b>	<b>8.93</b>	<b>9.56</b>	<b>11.23</b>
150°	<b>4.61</b>	<b>5.80</b>	<b>6.90</b>	<b>7.75</b>	<b>8.28</b>	<b>8.81</b>	<b>10.03</b>
Run VMG	<b>3.99</b>	<b>5.02</b>	<b>5.98</b>	<b>6.79</b>	<b>7.43</b>	<b>8.00</b>	<b>9.00</b>
Gybe Angles	<b>142.5°</b>	<b>146.1°</b>	<b>148.8°</b>	<b>155.2°</b>	<b>167.2°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **11.040**

Storm Sails Areas	
Heavy Weather Jib	<b>33.98</b>
Storm Jib (JL=10.32)	<b>12.59</b>
Storm Trysail	<b>17.06</b>

**Owner**

<b>BOAT</b>	
Name <b>MAN</b>	Sail Nr <b>ITA-14942</b>
File <b>I14942</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners <b>0</b>
Carbon Mast <b>Yes</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>16.300</b>	E <b>5.980</b> MDT1 <b>0.135</b> MW <b>0.245</b>
IG <b>15.865</b>	J <b>4.747</b> MDL1 <b>0.245</b> GO <b>0.245</b>
ISP <b>16.445</b>	SFJ <b>0.100</b> MDT2 <b>0.082</b> BD <b>0.265</b>
BAS <b>1.705</b>	SPL <b>4.747</b> MDL2 <b>0.120</b> MWT <b>202.00</b>
FSP <b>0.066</b>	TPS <b></b> TL <b>2.450</b> MCG <b>5.600</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>05/04/2019</b>		SG <b>1.0230</b>	
FFM <b>1.426</b>	FF <b>1.425</b>	SFFP <b>0.150</b>	
FAM <b>1.121</b>	FA <b>1.125</b>	SAFP <b>12.063</b>	
W1 <b>92.6</b>	PD1 <b>452.8</b>	WD <b>12.500</b>	
W2 <b>92.6</b>	PD2 <b>464.0</b>	GSA <b>1.0</b>	
W3 <b>92.6</b>	PD3 <b>449.5</b>	RSA <b>1.0</b>	
W4 <b>92.6</b>	PD4 <b>453.1</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.679 / 6.902</b>	
Maximum beam station from stem		<b>7.950</b>	
RM Measured		<b>200.4kg-m</b>	
RM Default		<b>196.8kg-m</b>	
Limit of positive stability / Stab.Index		<b>122.8° / 124.5</b>	
Freeboard at mast at 4.847		<b>1.222</b>	



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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.480</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.120</b>		
Twin Screw <b>No</b>	PIPA <b>0.0037</b>		
ST1 <b>0.047</b>	ST3 <b>0.180</b>	ST5 <b>0.310</b>	
ST2 <b>0.175</b>	ST4 <b>0.112</b>	EDL <b>0.970</b>	

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<b>COMMENTS</b>	
MAST JACK DISCONNECTED BUT ON BOARD	

<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	
	0.310	1.51	2.52	3.99	5.10	60.32	62.01	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16.46	16.46	16.46	8.64	8.74	118.79		SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

<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>
0.12	0.86	1.54	2.69	3.82	4.94	15.87	41.76	Y	N	02/04/2019	Carbon	J1
0.12	0.87	1.55	2.68	3.78	4.94	15.92	41.75	Y	N	22/03/2019	Carbon	J2
0.11	0.81	1.52	2.74	3.85	4.93	15.82	41.73			21/05/2019	Unknow	
0.13	0.68	1.26	2.40	3.57	4.75	15.80	38.11	Y	N	22/03/2019	Carbon	J3

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>FIV 136</b>				
Date <b>05/04/2019</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		
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

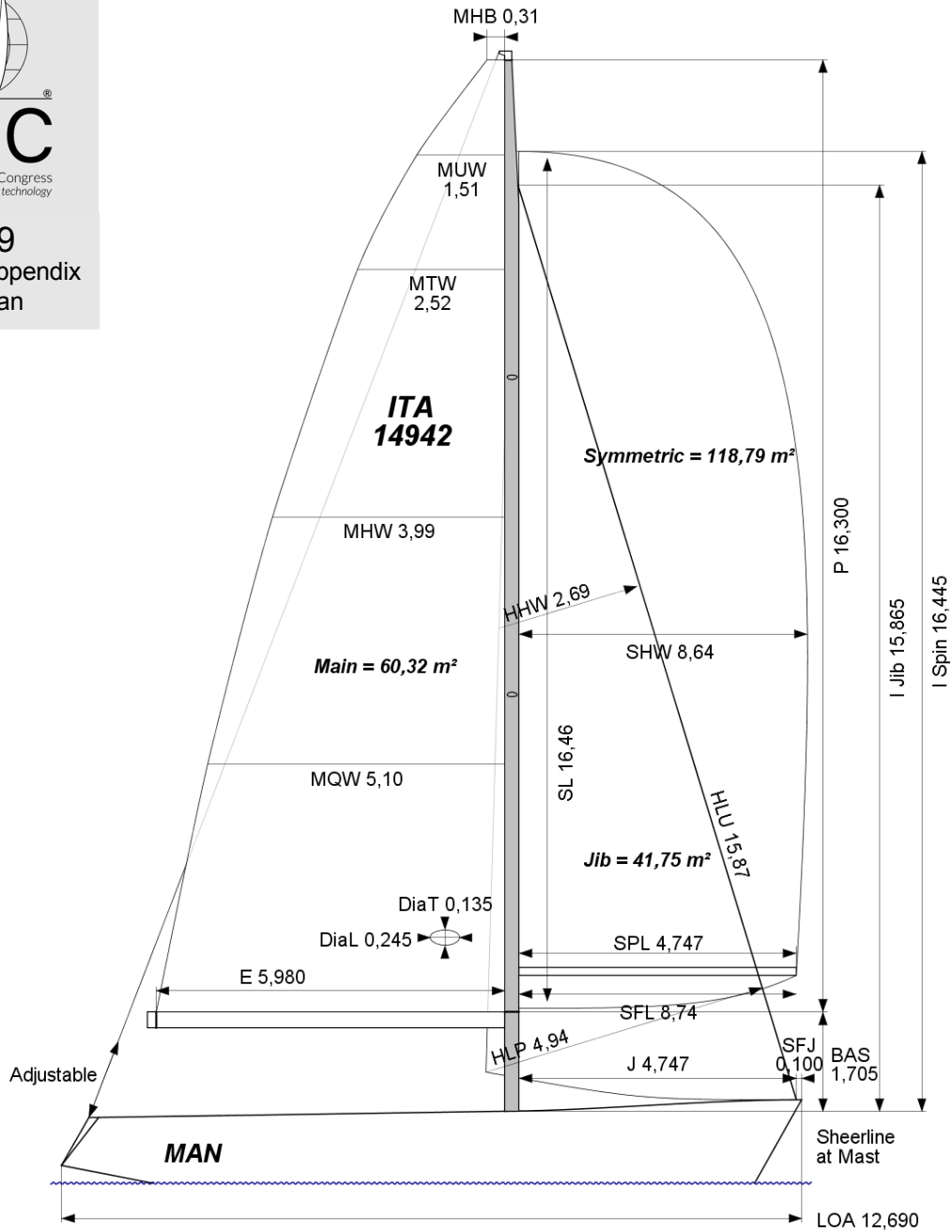
<b>MEASUREMENT INVENTORY</b>								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
A	Tank	WATER	PVC	100.0	6.05	0.00	0-0	EMPTY
B	Tank	WATER	PVC	100.0	6.05	0.00	0-0	EMPTY
C	Tank	FUEL	INOX	100.0	8.75	0.00	35-0	L
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
A	Ballast	278.0	7.94	0.00	14	LEAD PIGS SX		
B	Ballast	278.0	7.94	0.00	14	LEAD PIGS DX		
C	Ballast	60.0	8.50	0.00	3	LEAD PIGS SX		
D	Ballast	60.0	8.50	0.00	3	LEAD PIGS DX		
E	Ballast	40.0	9.87	0.00	2	LEAD PIGS CX		
A	Battery	25.0	8.70	0.00	1	X 70 Ah		
B	Battery	60.0	7.20	0.00	2	X 75 Ah		
A	Misc	8.0	7.00	0.00	FORNELLO 3 FUOCHI			



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**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.31	1.51	2.52	3.99	5.10	60.33		08/03/2019	ONE	Carbon	

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.12	0.86	1.54	2.69	3.82	4.94	15.87	104%	41.76	Y	N		02/04/2019	ONE	Carbon	J1
F	0.12	0.87	1.55	2.68	3.78	4.94	15.92	104%	41.75	Y	N		22/03/2019	ONE	Carbon	J2
G	0.11	0.81	1.52	2.74	3.85	4.93	15.82	104%	41.73				21/05/2019		Unknown	
D	0.13	0.68	1.26	2.40	3.57	4.75	15.80	100%	38.11	Y	N		22/03/2019	ONE	Carbon	J3

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
E	16.46	16.46	16.46	8.64	8.74	118.79		08/03/2019	ONE	Nylon	S1
D	16.30	16.30	16.30	8.83	8.40	118.78		08/03/2019	ONE	Nylon	S2

**ASYMMETRIC SPINNAKERS (0)**

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