

<b>BOAT</b> Name <b>ALEMARO</b> Sail Nr <b>GER-1807</b>	<b>GPH</b> <b>524.0</b>	<b>HULL</b> Length Overall <b>12.700m</b> Maximum Beam <b>3.990m</b> Displacement <b>5,801kg</b> Draft <b>2.868m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Carbon</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>NEO 400 CARBON</b> Designer <b>CECCARELLI</b> Builder <b>NEO YACHT'S &amp; COMP</b> Series <b>09/2017</b> Age <b>03/2019</b> Age Allowance <b>0.065%</b> Offset File <b>NEO400F.off - 15/03/2019 12:04:06</b> Measurement by - <b>09/03/2019</b>		IMSL <b>12.038m</b> VCGD <b>-0.241m</b> Sink <b>25.30kg/mm</b> RL <b>11.391m</b> VCGM <b>-0.258m</b> WS <b>32.78m<sup>2</sup></b> LSM0 <b>11.692m</b> Displacement/Length ratio <b>3.6294</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>510.1</b>			<b>577.6</b>		
Time on Time	<b>1.1761</b>			<b>1.1687</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>593.9</b>	<b>466.4</b>	<b>413.2</b>	<b>769.0</b>	<b>581.2</b>	<b>508.8</b>
Time on Time	<b>1.1366</b>	<b>1.4473</b>	<b>1.6335</b>	<b>0.8778</b>	<b>1.1614</b>	<b>1.3267</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>871.9</b>	<b>710.1</b>	<b>647.4</b>	<b>625.6</b>	<b>614.6</b>	<b>599.3</b>	<b>598.6</b>
52°	<b>569.1</b>	<b>473.3</b>	<b>445.0</b>	<b>436.1</b>	<b>431.8</b>	<b>426.1</b>	<b>421.1</b>
60°	<b>536.4</b>	<b>455.2</b>	<b>430.7</b>	<b>422.0</b>	<b>416.9</b>	<b>412.2</b>	<b>402.4</b>
75°	<b>511.0</b>	<b>444.8</b>	<b>417.2</b>	<b>399.6</b>	<b>390.5</b>	<b>385.1</b>	<b>371.9</b>
90°	<b>517.4</b>	<b>448.1</b>	<b>418.9</b>	<b>391.4</b>	<b>370.4</b>	<b>359.2</b>	<b>348.7</b>
110°	<b>525.7</b>	<b>441.0</b>	<b>405.6</b>	<b>385.7</b>	<b>368.2</b>	<b>354.5</b>	<b>316.0</b>
120°	<b>541.5</b>	<b>447.3</b>	<b>408.2</b>	<b>373.7</b>	<b>353.1</b>	<b>338.5</b>	<b>303.4</b>
135°	<b>604.9</b>	<b>482.2</b>	<b>431.6</b>	<b>397.1</b>	<b>362.0</b>	<b>326.3</b>	<b>274.0</b>
150°	<b>723.1</b>	<b>570.7</b>	<b>482.3</b>	<b>433.9</b>	<b>407.2</b>	<b>376.8</b>	<b>309.4</b>
Run VMG	<b>834.9</b>	<b>659.0</b>	<b>556.9</b>	<b>501.3</b>	<b>470.2</b>	<b>435.1</b>	<b>357.2</b>

**Certificate**

Number **GR1807**  
ORC Ref **ITA00050876**  
Issued On **15/03/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default **860kg**  
Maximum **800kg**  
Minimum\* **600kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>536.6</b>	<b>1.1182</b>
Double H.OSN	<b>525.3</b>	<b>1.1421</b>
Non Spin GPH	<b>562.0</b>	<b>1.0676</b>
Non Spin OSN	<b>549.1</b>	<b>1.0928</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>853.4</b>	<b>684.6</b>	<b>602.2</b>	<b>563.5</b>	<b>542.4</b>	<b>517.2</b>	<b>477.9</b>
Circular Random	<b>718.0</b>	<b>581.1</b>	<b>508.7</b>	<b>467.0</b>	<b>440.3</b>	<b>421.0</b>	<b>391.3</b>
Coastal / Long Distance	<b>851.6</b>	<b>643.7</b>	<b>543.3</b>	<b>486.5</b>	<b>454.6</b>	<b>423.9</b>	<b>372.7</b>
Non Spinnaker	<b>786.1</b>	<b>629.6</b>	<b>544.8</b>	<b>494.5</b>	<b>462.3</b>	<b>440.2</b>	<b>411.1</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</b>	<b>5</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.1°</b>	<b>41.7°</b>	<b>39.9°</b>	<b>38.9°</b>	<b>39.0°</b>	<b>38.5°</b>	<b>39.0°</b>
Beat VMG	<b>4.13</b>	<b>5.07</b>	<b>5.56</b>	<b>5.75</b>	<b>5.86</b>	<b>6.01</b>	<b>6.01</b>
52°	<b>6.33</b>	<b>7.61</b>	<b>8.09</b>	<b>8.25</b>	<b>8.34</b>	<b>8.45</b>	<b>8.55</b>
60°	<b>6.71</b>	<b>7.91</b>	<b>8.36</b>	<b>8.53</b>	<b>8.64</b>	<b>8.73</b>	<b>8.95</b>
75°	<b>7.04</b>	<b>8.09</b>	<b>8.63</b>	<b>9.01</b>	<b>9.22</b>	<b>9.35</b>	<b>9.68</b>
90°	<b>6.96</b>	<b>8.03</b>	<b>8.59</b>	<b>9.20</b>	<b>9.72</b>	<b>10.02</b>	<b>10.32</b>
110°	<b>6.85</b>	<b>8.16</b>	<b>8.88</b>	<b>9.33</b>	<b>9.78</b>	<b>10.16</b>	<b>11.39</b>
120°	<b>6.65</b>	<b>8.05</b>	<b>8.82</b>	<b>9.63</b>	<b>10.19</b>	<b>10.64</b>	<b>11.86</b>
135°	<b>5.95</b>	<b>7.47</b>	<b>8.34</b>	<b>9.07</b>	<b>9.94</b>	<b>11.03</b>	<b>13.14</b>
150°	<b>4.98</b>	<b>6.31</b>	<b>7.46</b>	<b>8.30</b>	<b>8.84</b>	<b>9.55</b>	<b>11.64</b>
Run VMG	<b>4.31</b>	<b>5.46</b>	<b>6.46</b>	<b>7.18</b>	<b>7.66</b>	<b>8.27</b>	<b>10.08</b>
Gybe Angles	<b>142.1°</b>	<b>144.1°</b>	<b>148.7°</b>	<b>152.0°</b>	<b>149.5°</b>	<b>147.0°</b>	<b>142.6°</b>

**Class Division Length**

**CDL = 11.715**

**Storm Sails Areas**

Heavy Weather Jib **37.93**  
Storm Jib (JL=10.90) **14.05**  
Storm Trysail **17.80**

**Owner**

<b>BOAT</b>	
Name <b>ALEMARO</b>	Sail Nr <b>GER-1807</b>
File <b>GER1807</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Boom Inclining</b>	LCFD	<b>7.480</b>
Flotation date <b>09/03/2019</b>	SG	<b>1.0260</b>
FFM <b>1.434</b>	FF <b>1.433</b>	SFFP <b>0.990</b>
FAM <b>1.104</b>	FA <b>1.105</b>	SAFP <b>12.250</b>
W1 <b>130.8</b>	PD1 <b>250.4</b>	WD <b>5.540</b>
W2 <b>130.8</b>	PD2 <b>247.5</b>	GSA <b>1.0</b>
W3 <b>130.8</b>	PD3 <b>246.8</b>	RSA <b>1.0</b>
W4 <b>130.8</b>	PD4 <b>245.7</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer	<b>6.842 / 7.136</b>	
Maximum beam station from stem	<b>9.250</b>	
RM Measured	<b>230.5kg-m</b>	
RM Default	<b>214.9kg-m</b>	
Limit of positive stability / Stab.Index	<b>132.6° / 129.9</b>	
Freeboard at mast at 5.540	<b>1.466</b>	



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<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>17.000</b>	E <b>5.980</b> MDT1 <b>0.125</b> MW <b>0.240</b>
IG <b>16.640</b>	J <b>5.100</b> MDL1 <b>0.240</b> GO <b>0.277</b>
ISP <b>18.780</b>	SFJ <b>0.440</b> MDT2 <b>0.080</b> BD <b>0.300</b>
BAS <b>1.750</b>	SPL <b>0.200</b> MDL2 <b>0.200</b> MWT <b>204.00</b>
FSP <b>0.076</b>	TPS <b>6.980</b> TL <b>1.880</b> MCG <b>6.740</b>

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD	<b>0.420</b>
Type <b>Folding 2 blades</b>	PBW	<b>0.105</b>
Twin Screw <b>No</b>	PIPA	<b>0.0039</b>
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.250</b>
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>2.215</b>

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<b>COMMENTS</b>	
FFM & FAM SU SPIGOLO BASSO	

<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	
	0.700	1.48	2.30	3.82	5.03	61.54	62.80	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		
	20.69	16.92	18.80	10.79	9.74	165.80	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>
0.16	0.91	1.65	2.93	4.19	5.36	16.57	47.44	Y		27/02/2019	Carbon	J1
0.08	0.84	1.58	2.80	4.05	5.28	16.57	45.82	Y		27/02/2019	Carbon	J2
0.11	0.68	1.29	2.53	3.84	5.18	16.40	42.24	Y		27/02/2019	Unknow	J3
					4.16	10.60	22.45			27/02/2019	Unknow	STAYSAIL

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>162</b>				
Date <b>09/03/2019</b>				
Comment <b>Condizione buone</b>				
<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	VOLVO PENTA	30HP	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>

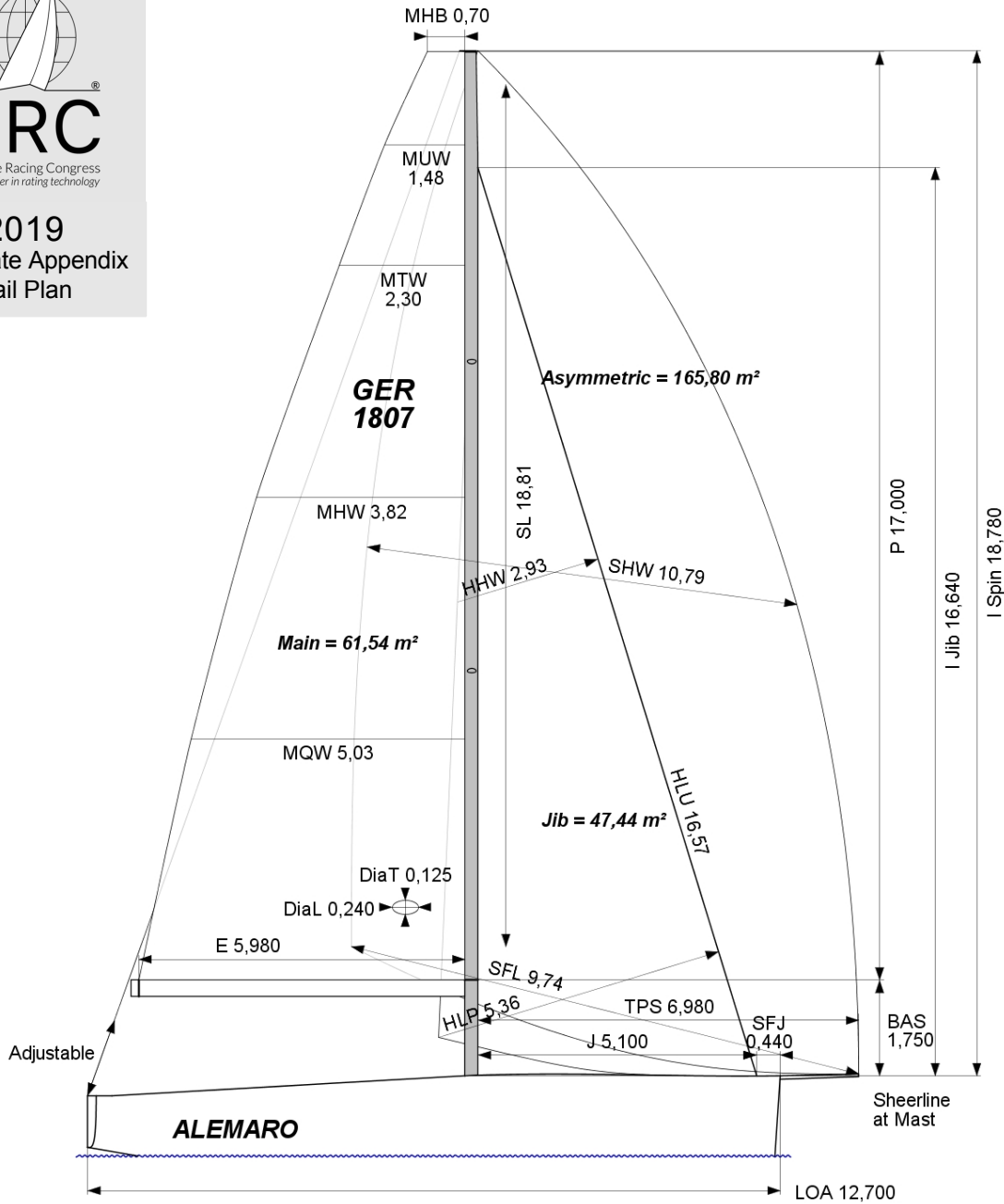
<b>MEASUREMENT INVENTORY</b>							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
A	Tank	FUEL	PVC	100.0	9.60		40-0 L CX
B	Tank	WATER	PVC	100.0	3.10		0-0 SX
C	Tank	WATER	PVC	100.0	3.10		0-0 DX
D	Tank	REFLUE	PVC	73.0	7.20		0-0 DX
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>		
A	Battery	50.0	9.40		2 X 80 Servizi cx		
B	Battery	2.0	9.40		Motore 40 Ah cx		
A	Misc	30.0	11.60		AUTOPILOTA CX		
B	Misc	10.0	0.20		SALPAANCORE		
C	Misc	35.0	7.40		BOILER DX		



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
A	0.70	1.48	2.30	3.82	5.03	61.54		27/02/2019	BANKS	Carbon						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.16	0.91	1.65	2.93	4.19	5.36	16.57	105%	47.44	Y			27/02/2019	BANKS	Carbon	J1
B	0.08	0.84	1.58	2.80	4.05	5.28	16.57	104%	45.82	Y			27/02/2019	BANKS	Carbon	J2
C	0.11	0.68	1.29	2.53	3.84	5.18	16.40	102%	42.24	Y			27/02/2019	BANKS	Unknow	J3
D						4.16	10.60	82%	22.45				27/02/2019	BANKS	Unknow	STAYSAIL
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A	20.69	16.92	18.80	10.79	9.74	165.80	asym		27/02/2019	BANKS	Unknown	A2,5				
C	20.56	17.28	18.92	10.32	10.02	161.77	asym		27/02/2019	BANKS	Unknown	A1,5				
B	19.38	17.63	18.50	7.78	10.36	127.94	asym		27/02/2019	BANKS	Unknown	A0				