

<b>BOAT</b> Name <b>Taia 2 &amp; White Goose</b> Sail Nr <b>SLO 4150</b>	<b>GPH</b> <b>539.1</b>	<b>HULL</b> Length Overall <b>12.700m</b> Maximum Beam <b>3.698m</b> Displacement <b>6,657kg</b> Draft <b>2.592m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension IMSL <b>11.614m</b> VCGD <b>-0.305m</b> Sink <b>24.02kg/mm</b> RL <b>10.865m</b> VCGM <b>-0.260m</b> WS <b>31.77m<sup>2</sup></b> LSM0 <b>11.271m</b> Displacement/Length ratio <b>4.6493</b>
<b>GENERAL</b> Class <b>ARYA 415 MOD.</b> Designer <b>LOSTUZZI</b> Builder <b>DUE EMME MARINE</b> Series <b>01/2007</b> Age <b>09/2008</b> Age Allowance <b>0.422%</b> Offset File <b>I41500.OFF - 23/04/2013 20:51:30</b> Measurement by - <b>25/04/2019</b>		



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>527.1</b>			<b>595.8</b>		
Time on Time	<b>1.1383</b>			<b>1.1328</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>608.1</b>	<b>480.4</b>	<b>430.1</b>	<b>794.2</b>	<b>596.8</b>	<b>528.0</b>
Time on Time	<b>1.1100</b>	<b>1.4050</b>	<b>1.5695</b>	<b>0.8499</b>	<b>1.1311</b>	<b>1.2784</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>904.5</b>	<b>737.3</b>	<b>665.6</b>	<b>640.6</b>	<b>629.2</b>	<b>616.2</b>	<b>609.9</b>
52°	<b>591.7</b>	<b>491.7</b>	<b>459.2</b>	<b>449.7</b>	<b>445.2</b>	<b>441.8</b>	<b>434.5</b>
60°	<b>558.2</b>	<b>473.2</b>	<b>446.6</b>	<b>437.0</b>	<b>431.9</b>	<b>429.1</b>	<b>419.0</b>
75°	<b>515.4</b>	<b>455.5</b>	<b>436.2</b>	<b>420.1</b>	<b>410.8</b>	<b>404.9</b>	<b>397.3</b>
90°	<b>499.5</b>	<b>443.3</b>	<b>421.1</b>	<b>407.1</b>	<b>395.6</b>	<b>381.7</b>	<b>368.9</b>
110°	<b>517.4</b>	<b>449.3</b>	<b>419.6</b>	<b>392.2</b>	<b>368.9</b>	<b>352.9</b>	<b>330.1</b>
120°	<b>548.0</b>	<b>457.2</b>	<b>422.6</b>	<b>394.6</b>	<b>373.4</b>	<b>346.8</b>	<b>308.7</b>
135°	<b>620.7</b>	<b>490.7</b>	<b>441.3</b>	<b>411.1</b>	<b>380.5</b>	<b>349.5</b>	<b>299.1</b>
150°	<b>740.5</b>	<b>588.8</b>	<b>494.0</b>	<b>444.3</b>	<b>421.2</b>	<b>396.5</b>	<b>336.4</b>
Run VMG	<b>855.0</b>	<b>679.9</b>	<b>570.4</b>	<b>513.1</b>	<b>486.2</b>	<b>457.9</b>	<b>388.5</b>

**Certificate**

Number **I01/20**  
ORC Ref **03090000J1K**  
Issued On **27/05/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default **816kg**  
Maximum **775kg**  
Minimum\* **581kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>580.5</b>	<b>1.0336</b>
Non Spin OSN	<b>566.6</b>	<b>1.0589</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>879.8</b>	<b>708.6</b>	<b>618.0</b>	<b>576.9</b>	<b>557.7</b>	<b>537.0</b>	<b>499.2</b>
Circular Random	<b>734.8</b>	<b>596.3</b>	<b>523.5</b>	<b>482.0</b>	<b>456.0</b>	<b>437.6</b>	<b>409.8</b>
Coastal / Long Distance	<b>877.3</b>	<b>665.0</b>	<b>557.7</b>	<b>501.2</b>	<b>471.7</b>	<b>440.9</b>	<b>389.2</b>
Non Spinnaker	<b>809.8</b>	<b>649.3</b>	<b>562.6</b>	<b>511.7</b>	<b>479.7</b>	<b>458.2</b>	<b>430.2</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</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>42.8°</b>	<b>41.6°</b>	<b>39.8°</b>	<b>39.0°</b>	<b>38.6°</b>	<b>38.1°</b>	<b>38.3°</b>
Beat VMG	<b>3.98</b>	<b>4.88</b>	<b>5.41</b>	<b>5.62</b>	<b>5.72</b>	<b>5.84</b>	<b>5.90</b>
52°	<b>6.08</b>	<b>7.32</b>	<b>7.84</b>	<b>8.01</b>	<b>8.09</b>	<b>8.15</b>	<b>8.28</b>
60°	<b>6.45</b>	<b>7.61</b>	<b>8.06</b>	<b>8.24</b>	<b>8.33</b>	<b>8.39</b>	<b>8.59</b>
75°	<b>6.99</b>	<b>7.90</b>	<b>8.25</b>	<b>8.57</b>	<b>8.76</b>	<b>8.89</b>	<b>9.06</b>
90°	<b>7.21</b>	<b>8.12</b>	<b>8.55</b>	<b>8.84</b>	<b>9.10</b>	<b>9.43</b>	<b>9.76</b>
110°	<b>6.96</b>	<b>8.01</b>	<b>8.58</b>	<b>9.18</b>	<b>9.76</b>	<b>10.20</b>	<b>10.91</b>
120°	<b>6.57</b>	<b>7.87</b>	<b>8.52</b>	<b>9.12</b>	<b>9.64</b>	<b>10.38</b>	<b>11.66</b>
135°	<b>5.80</b>	<b>7.34</b>	<b>8.16</b>	<b>8.76</b>	<b>9.46</b>	<b>10.30</b>	<b>12.04</b>
150°	<b>4.86</b>	<b>6.11</b>	<b>7.29</b>	<b>8.10</b>	<b>8.55</b>	<b>9.08</b>	<b>10.70</b>
Run VMG	<b>4.21</b>	<b>5.30</b>	<b>6.31</b>	<b>7.02</b>	<b>7.40</b>	<b>7.86</b>	<b>9.27</b>
Gybe Angles	<b>142.5°</b>	<b>144.5°</b>	<b>147.5°</b>	<b>151.8°</b>	<b>150.5°</b>	<b>147.5°</b>	<b>142.8°</b>

**Class Division Length**

CDL = **11.234**

**Storm Sails Areas**

Heavy Weather Jib **39.29**  
Storm Jib (JL=11.09) **14.55**  
Storm Trysail **16.54**

**Owner**

<b>BOAT</b>	
Name <b>Taia 2 &amp; White</b>	Sail Nr <b>SLO 4150</b>
File <b>SLO4150</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Boom Inclining</b>	LCFD	<b>7.875</b>
Flotation date <b>25/04/2019</b>	SG	<b>1.0270</b>
FFM <b>1.389</b>	FF <b>1.387</b>	SFFP <b>0.130</b>
FAM <b>1.097</b>	FA <b>1.099</b>	SAFP <b>12.617</b>
W1 <b>103.1</b>	PD1 <b>212.9</b>	WD <b>5.660</b>
W2 <b>103.1</b>	PD2 <b>212.9</b>	GSA <b>1.0</b>
W3 <b>103.1</b>	PD3 <b>215.4</b>	RSA <b>1.0</b>
W4 <b>103.1</b>	PD4 <b>216.2</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer	<b>6.933 / 7.155</b>	
Maximum beam station from stem	<b>7.790</b>	
RM Measured	<b>214.4kg-m</b>	
RM Default	<b>201.1kg-m</b>	
Limit of positive stability / Stab.Index	<b>131.5° / 134.4</b>	
Freeboard at mast at 4.970	<b>1.268</b>	



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<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>Yes</b>	Jib Furler <b>No</b>
Fiber Rigging <b>Yes</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>16.550</b>	E <b>5.710</b> MDT1 <b>0.135</b> MW <b>0.245</b>
IG <b>16.979</b>	J <b>4.970</b> MDL1 <b>0.245</b> GO <b>0.268</b>
ISP <b>18.929</b>	SFJ <b>0.000</b> MDT2 <b>0.102</b> BD <b>0.290</b>
BAS <b>1.719</b>	SPL <b>0.000</b> MDL2 <b>0.179</b> MWT <b>192.00</b>
FSD <b>0.041</b>	TPS <b>6.220</b> TL <b>1.467</b> MCG <b>6.285</b>

<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>0.112</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>1.700</b>

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.73	1.44	2.27	3.65	4.76	57.39	58.54	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			AS · (SFL + 4·SHW) / 6	
	20.86	17.68	19.27	11.28	10.12	177.41			

<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>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.12	0.88	1.64	2.92	4.10	5.31	16.87	47.66	Y	No	21/05/2019	Unknow	LM 2
0.12	0.74	1.49	2.76	4.04	5.28	16.90	46.13	Y	No	03/08/2015	Unknow	MH
0.12	0.83	1.56	2.82	4.03	5.26	16.57	45.73	Y	No	25/04/2019	Unknow	LM
0.08	0.62	1.20	2.41	3.69	5.00	15.40	37.92	Y	No	03/08/2015	Unknow	HWJ

<b>MEASUREMENT INVENTORY</b>				
Measurer	Date <b>25/04/2019</b>			
Comment	<b>Internal Ballast total = 0.0</b>			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

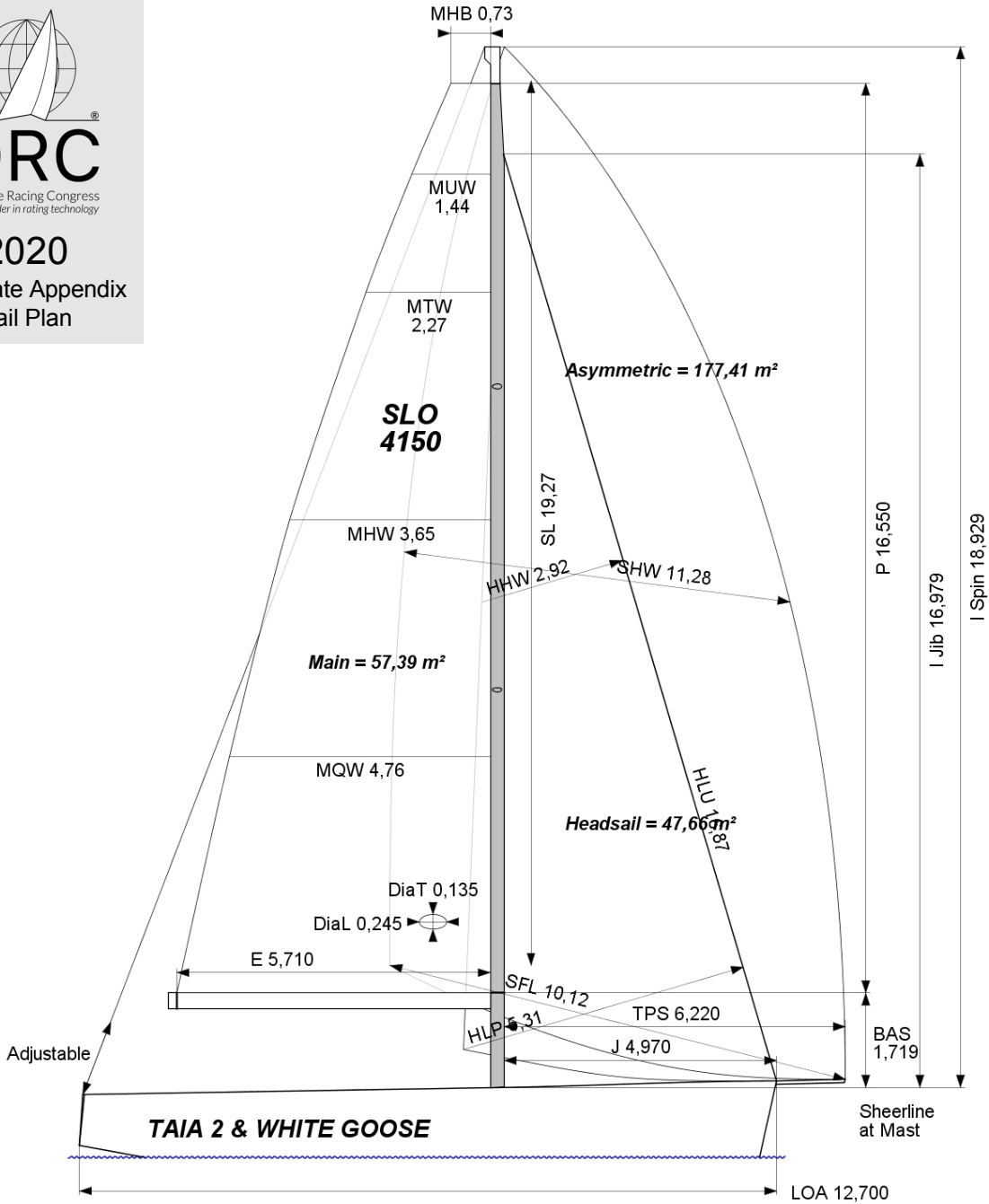
<b>MEASUREMENT INVENTORY</b>								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
A	Tank	WATER	PVC	39.0	5.30	0.00	0-0	LEFT
B	Tank	FUEL	PVC	102.0	9.82	0.00	24-0	CENTER
C	Tank	GAS	STEEL	2.0	9.07	0.00	0-0	CENTER
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
A	Battery	25.0	7.40	0.00	80Ah RIGHT			
B	Battery	25.0	7.75	0.00	80Ah RIGHT			
C	Battery	30.0	8.95	0.00	100Ah RIGHT			
A	Misc	0.0	7.30	0.00	STOVE - 2 BURN+OVEN - LEFT			



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1RM2	0.73	1.44	2.27	3.65	4.76	57.39		25/04/2019	North Sails	Unknown						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1N	0.12	0.88	1.64	2.92	4.10	5.31	16.87	107%	47.66	Y	No		21/05/2019	North Sails	Unknow	LM 2
2	0.12	0.74	1.49	2.76	4.04	5.28	16.90	106%	46.13	Y	No		03/08/2015	North Sails	Unknow	MH
1RM2	0.12	0.83	1.56	2.82	4.03	5.26	16.57	106%	45.73	Y	No		25/04/2019	North Sails	Unknow	LM
3	0.08	0.62	1.20	2.41	3.69	5.00	15.40	101%	37.92	Y	No		03/08/2015	North Sails	Unknow	HWJ
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	20.86	17.68	19.27	11.28	10.12	177.42	asym		17/05/2015	North Sails	Nylon	A2				
1	20.18	18.12	19.15	10.68	10.68	170.44	asym		17/05/2015	North Sails	Nylon	A1.5				
3	20.66	17.42	19.04	9.55	10.87	155.72	asym		03/08/2015	North Sails	Nylon	A1				
4	20.86	17.34	19.10	8.53	9.40	138.54	asym		03/08/2015	North Sails	Polyester	A3				
5	19.12	18.62	18.87	6.24	8.29	104.58	asy76		07/06/2017	North Sails	Kevlar	CO				