

<b>BOAT</b> Name <b>WHITE RHINO</b> Sail Nr <b>USA 52821</b>	<b>GPH</b> <b>520.1</b>	<b>HULL</b> Length Overall <b>17.070m</b> Maximum Beam <b>4.730m</b> Displacement <b>20,968kg</b> Draft <b>2.704m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.081%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>Yes</b> Crew Arm Extension <b>0.00</b>
<b>GENERAL</b> Class <b>SWAN 56 STND/SHL D</b> Designer <b>FRERS</b> Builder <b>NAUTOR</b> Series <b>01/1998</b> Age <b>01/2000</b> Age Allowance <b>0.487%</b> Offset File <b>ISWAN56.OFF - 17/06/1998 14:27:10</b> Measurement by - <b>28/05/2010</b>		IMSL <b>15.298m</b> VCGD <b>-0.001m</b> Sink <b>42.00kg/mm</b> RL <b>11.835m</b> VCGM <b>0.045m</b> WS <b>56.65m<sup>2</sup></b> LSM0 <b>15.299m</b> Displacement/Length ratio <b>5.8556</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>510.1</b>			<b>573.1</b>		
Time on Time	<b>1.1762</b>			<b>1.1778</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>589.2</b>	<b>463.0</b>	<b>414.9</b>	<b>771.5</b>	<b>578.3</b>	<b>496.3</b>
Time on Time	<b>1.1457</b>	<b>1.4579</b>	<b>1.6268</b>	<b>0.8749</b>	<b>1.1673</b>	<b>1.3601</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>839.6</b>	<b>713.4</b>	<b>650.5</b>	<b>613.8</b>	<b>590.9</b>	<b>580.7</b>	<b>560.4</b>
52°	<b>541.1</b>	<b>465.5</b>	<b>432.6</b>	<b>418.7</b>	<b>411.2</b>	<b>406.7</b>	<b>401.9</b>
60°	<b>507.3</b>	<b>439.5</b>	<b>415.9</b>	<b>405.7</b>	<b>400.2</b>	<b>396.5</b>	<b>393.1</b>
75°	<b>481.3</b>	<b>423.1</b>	<b>402.7</b>	<b>393.3</b>	<b>387.4</b>	<b>383.5</b>	<b>378.3</b>
90°	<b>481.9</b>	<b>421.8</b>	<b>399.1</b>	<b>386.8</b>	<b>377.8</b>	<b>371.1</b>	<b>362.1</b>
110°	<b>525.8</b>	<b>448.8</b>	<b>405.4</b>	<b>386.9</b>	<b>376.3</b>	<b>368.0</b>	<b>353.6</b>
120°	<b>558.1</b>	<b>456.6</b>	<b>408.8</b>	<b>387.7</b>	<b>372.1</b>	<b>357.6</b>	<b>340.0</b>
135°	<b>620.1</b>	<b>498.4</b>	<b>430.7</b>	<b>399.7</b>	<b>381.9</b>	<b>365.6</b>	<b>331.9</b>
150°	<b>736.3</b>	<b>591.3</b>	<b>494.6</b>	<b>433.9</b>	<b>403.3</b>	<b>385.3</b>	<b>354.0</b>
Run VMG	<b>850.2</b>	<b>682.8</b>	<b>571.1</b>	<b>499.6</b>	<b>456.3</b>	<b>424.3</b>	<b>383.3</b>

**Certificate**  
Number **US6119**  
ORC Ref **USAX028JC4K**  
Issued On **30/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **1,262kg**  
Maximum **1,262kg**  
Minimum\* **947kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **535.9 1.1196**  
Non Spin OSN **527.2 1.1380**

Selected Courses							
Windward / Leeward	<b>844.9</b>	<b>698.1</b>	<b>610.8</b>	<b>556.7</b>	<b>523.6</b>	<b>502.5</b>	<b>471.9</b>
Circular Random	<b>708.4</b>	<b>575.8</b>	<b>505.2</b>	<b>464.4</b>	<b>439.3</b>	<b>422.5</b>	<b>399.7</b>
Coastal / Long Distance	<b>845.4</b>	<b>653.9</b>	<b>546.6</b>	<b>481.9</b>	<b>447.6</b>	<b>422.9</b>	<b>385.5</b>
Non Spinnaker	<b>734.9</b>	<b>595.4</b>	<b>520.4</b>	<b>476.4</b>	<b>448.7</b>	<b>430.2</b>	<b>406.3</b>

**Sails Limitations**  
Headsails **7** Spinnakers **5**

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>44.8°</b>	<b>42.6°</b>	<b>42.2°</b>	<b>41.0°</b>	<b>39.9°</b>	<b>39.4°</b>	<b>38.1°</b>
Beat VMG	<b>4.29</b>	<b>5.05</b>	<b>5.53</b>	<b>5.87</b>	<b>6.09</b>	<b>6.20</b>	<b>6.42</b>
52°	<b>6.65</b>	<b>7.73</b>	<b>8.32</b>	<b>8.60</b>	<b>8.75</b>	<b>8.85</b>	<b>8.96</b>
60°	<b>7.10</b>	<b>8.19</b>	<b>8.66</b>	<b>8.87</b>	<b>9.00</b>	<b>9.08</b>	<b>9.16</b>
75°	<b>7.48</b>	<b>8.51</b>	<b>8.94</b>	<b>9.15</b>	<b>9.29</b>	<b>9.39</b>	<b>9.52</b>
90°	<b>7.47</b>	<b>8.53</b>	<b>9.02</b>	<b>9.31</b>	<b>9.53</b>	<b>9.70</b>	<b>9.94</b>
110°	<b>6.85</b>	<b>8.02</b>	<b>8.88</b>	<b>9.31</b>	<b>9.57</b>	<b>9.78</b>	<b>10.18</b>
120°	<b>6.45</b>	<b>7.88</b>	<b>8.81</b>	<b>9.28</b>	<b>9.68</b>	<b>10.07</b>	<b>10.59</b>
135°	<b>5.81</b>	<b>7.22</b>	<b>8.36</b>	<b>9.01</b>	<b>9.43</b>	<b>9.85</b>	<b>10.85</b>
150°	<b>4.89</b>	<b>6.09</b>	<b>7.28</b>	<b>8.30</b>	<b>8.93</b>	<b>9.34</b>	<b>10.17</b>
Run VMG	<b>4.23</b>	<b>5.27</b>	<b>6.30</b>	<b>7.21</b>	<b>7.89</b>	<b>8.48</b>	<b>9.39</b>
Gybe Angles	<b>143.3°</b>	<b>140.7°</b>	<b>144.7°</b>	<b>152.2°</b>	<b>157.6°</b>	<b>172.2°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **13.568**

**Storm Sails Areas**  
Heavy Weather Jib **69.54**  
Storm Jib (JL=14.76) **25.76**  
Storm Trysail **23.87**

**Owner**

<b>BOAT</b>	
Name <b>WHITE RHINO</b>	Sail Nr <b>USA 52821</b>
File <b>US6119</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>30/05/2012</b>				SG <b>1.0230</b>	
FFM	<b>1.587</b>	FF	<b>1.597</b>	SFFP	<b>0.606</b>
FAM	<b>1.218</b>	FA	<b>1.224</b>	SAFP	<b>15.569</b>
W1	<b>172.6</b>	PD1	<b>449.8</b>	WD	<b>16.980</b>
W2	<b>172.6</b>	PD2	<b>449.8</b>	GSA	<b>1.0</b>
W3	<b>172.6</b>	PD3	<b>449.8</b>	RSA	<b>1.0</b>
W4	<b>172.6</b>	PD4	<b>449.8</b>	PLM	<b>9000.0</b>
LCF from stem on CL / on sheer				<b>9.597 / 9.891</b>	
Maximum beam station from stem				<b>10.638</b>	
RM Measured				<b>513.1kg-m</b>	
RM Default				<b>667.0kg-m</b>	
Limit of positive stability / Stab.Index				<b>112.2° / 124.8</b>	
Freeboard at mast at 6.680				<b>1.329</b>	



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<b>RIG</b>					
Forestay Tension	<b>Aft</b>	Spreaders		<b>3</b>	
Inner Stay	<b>None Fitted</b>	Runners		<b>1</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>20.290</b>	E	<b>6.720</b>	MDT1	<b>0.175</b>
IG	<b>22.605</b>	J	<b>6.260</b>	MDL1	<b>0.330</b>
ISP	<b>22.508</b>	SFJ	<b>0.420</b>	MDT2	<b>0.168</b>
BAS	<b>2.010</b>	SPL	<b>7.410</b>	MDL2	<b>0.263</b>
FSP	<b>0.090</b>	TPS	<b>0.000</b>	TL	<b>3.300</b>
MW	<b>0.263</b>	GO	<b>0.288</b>	BD	<b>0.440</b>
MWT	<b>578.00</b>	MCG	<b>6.100</b>		

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

<b>PROPELLER</b>			
Installation	<b>Shaft exposed</b>	PRD	<b>0.610</b>
Type	<b>Feathering 3 blades</b>	PBW	<b>0.180</b>
Twin Screw	<b>No</b>	PIPA	<b>0.0084</b>
PSA	<b>17.000</b>	PHL	<b>0.165</b>
ST3	<b>0.190</b>	ESL	<b>1.300</b>
PSD	<b>0.039</b>	ST1	<b>0.055</b>
ST4	<b>0.060</b>	ST2	<b>0.210</b>
ST5	<b>0.305</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	
	0.130	1.37	2.53	4.33	5.58	80.58	82.50	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL			AS · (SFL + 4·SHW) / 6	
	25.30	21.25	23.27	13.84	13.40	266.73			

<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
0.08	1.02	20.00	4.13	6.41	8.78	22.27	162.41					2017 MEDIUM #1 140%

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a	Ancher	0-0	0-00	
Id	Item	Weight	Distance	Description

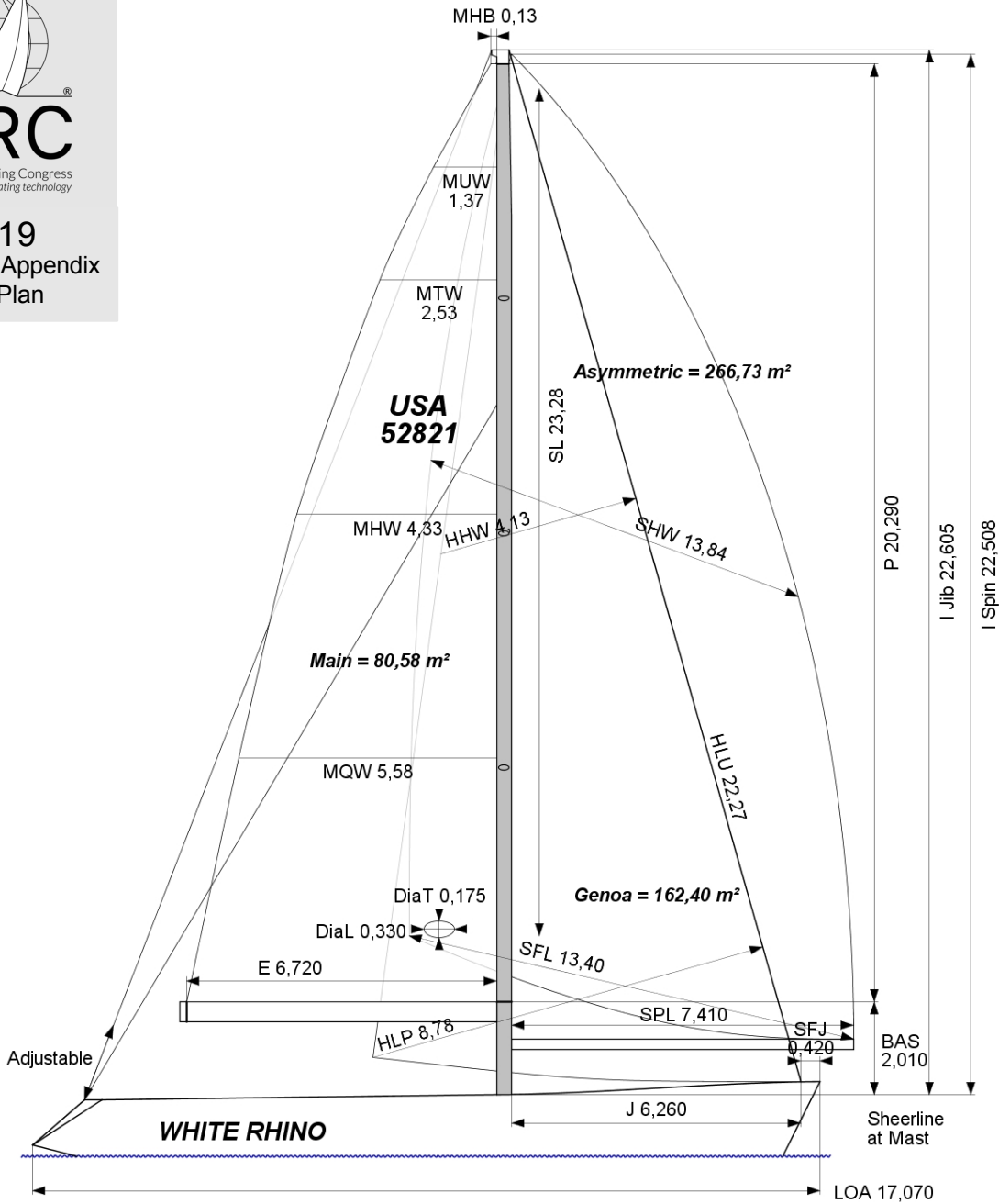
<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
		Tank				0.00	0.00	0-0	
Id	Item	Weight	Distance	VCG Description					



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2413874	0.13	1.37	2.53	4.33	5.58	80.58			jake	strazi	2019 mainsail					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2413885	0.08	1.02	20.00	4.13	6.41	8.78	22.27	140%	162.41					ERIC		2017 MEDIUM #1
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1577851	25.30	21.25	23.27	13.84	13.40	266.74	asym			Pete		2014 spinnaker from IRC				