



**2020**  
ORC Club  
Certificate

**Rating Office**  
Hellenic Sailing Federation  
Offshore Committee  
Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας

**Certificate**  
Number **00263**  
Issued On **26/08/2020**  
ORC Ref **03420000P2W**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	743kg
Maximum	600kg
Minimum*	450kg

*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD	ToT
Non Spin GPH <b>697.3</b>	<b>0.8605</b>
Non Spin OSN <b>671.7</b>	<b>0.8933</b>

**Sails Limitations**

Headsails **1** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 82.52**  
Flying H/S: **No**  
Spin. Pole: **No**

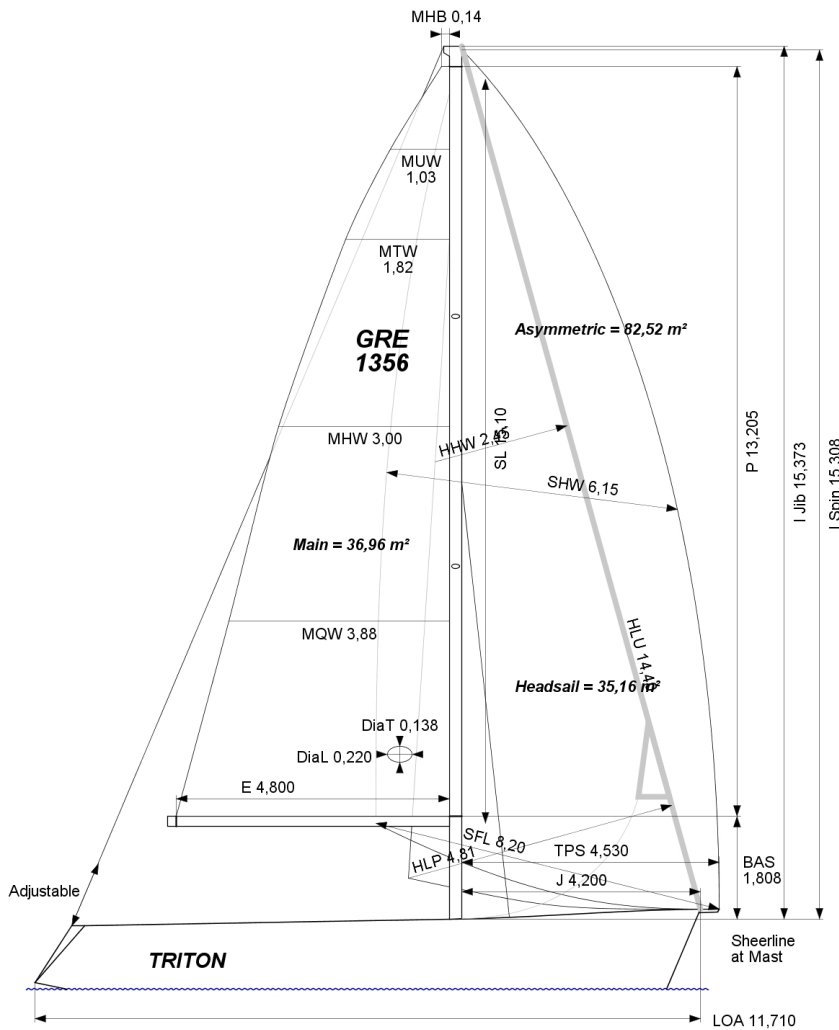
**Class Division Length**

**CDL = 9.067**

**Stability (Estimated)**

Limit Positive Stab.: **111.5°**  
Stability Index: **114.2**

**Owner**



<b>BOAT</b> Name <b>TRITON</b> Sail Nr <b>GRE-1356</b>		<b>GPH</b> <b>658.8</b>	<b>HULL</b> Data File <b>GR1356</b> LOA <b>11.710m</b> Offset File <b>F183.OFF</b> MB <b>3.944m</b> Displacement <b>7,920kg</b> Draft <b>1.988m</b>			
<b>CLASS</b> Class <b>SUN ODYSSEY 40 SD</b> Designer <b>ANDRIEU</b> Builder <b>JEANNEAU</b> Series <b>01/1998</b> Age Date <b>01/1998</b> Age Allowance <b>0.487%</b>			IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.366%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>			
<b>COMMENTS</b> Freeboards raised by 5,21mm due to Fuel Tank full 150 ltr			IMSL <b>10.609m</b> VCGD <b>0.133m</b> Sink <b>24.12kg/mm</b> RL <b>7.523m</b> VCGM <b>0.100m</b> WS <b>32.81m²</b> LSM0 <b>10.546m</b> Displacement/Length ratio <b>6.7525</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>			
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.496</b> Type <b>Feathering 3 blades</b> PBW <b>0.132</b> PIPA <b>0.0085</b>			<b>CENTERBOARD</b> <b>N/A</b>			
<b>SCORING OPTIONS</b>						
Time on Distance	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
	<b>641.4</b>			<b>726.4</b>		
Time on Time	<b>0.9355</b>			<b>0.9293</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>774.4</b>	<b>578.9</b>	<b>504.7</b>	<b>1024.7</b>	<b>736.0</b>	<b>616.8</b>
Time on Time	<b>0.8716</b>	<b>1.1660</b>	<b>1.3374</b>	<b>0.6587</b>	<b>0.9171</b>	<b>1.0943</b>

<b>BOAT</b>	
Name <b>TRITON</b>	Sail Nr <b>GRE-1356</b>
File <b>GR1356</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>Fixed</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>Yes</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>13.205</b>	E <b>4.800</b> MDT1 <b>0.138</b> MW <b>0.220</b>
IG <b>15.373</b>	J <b>4.200</b> MDL1 <b>0.220</b> GO <b>0.262</b>
ISP <b>15.308</b>	SFJ <b>0.000</b> MDT2 <b>0.138</b> BD <b>0.180</b>
BAS <b>1.808</b>	SPL <b>0.220</b> MDL2 <b>0.220</b> MWT <b>190.50</b>
FSD <b>0.035</b>	TPS <b>4.530</b> TL <b>0.000</b> MCG <b>5.624</b>

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>14/03/2009</b>	SG <b>1.0260</b>
FFM <b>1.330</b> FF <b>1.388</b> SFFP <b>0.626</b>	
FAM <b>1.070</b> FA <b>1.043</b> SAFF <b>10.840</b>	
LCF from stem on CL / on sheer	<b>6.583 / 6.864</b>
Maximum beam station from stem	<b>7.414</b>
RM Measured	<b>203.5kg-m</b>
RM Default	<b>197.5kg-m</b>
Limit of positive stability / Stab.Index	<b>111.5° / 114.2</b>
Freeboard at mast at 4.200	<b>1.235</b>



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020**  
Measurements  
Datasheet

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

<b>PROPELLER</b>	
Installation <b>Shaft exposed</b>	PRD <b>0.496</b>
Type <b>Feathering 3 blades</b>	PBW <b>0.132</b>
Twin Screw <b>No</b>	PIPA <b>0.0085</b>
PSA <b>19.500</b> PHL <b>0.104</b> ST3 <b>0.116</b> ESL <b>0.950</b>	
PSD <b>0.030</b> ST1 <b>0.023</b> ST4 <b>0.057</b>	
PHD <b>0.100</b> ST2 <b>0.098</b> ST5 <b>0.325</b>	

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<b>COMMENTS</b>	
Freeboards raised by 5,21mm due to Fuel Tank full 150 ltr	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.14	1.03	1.82	3.00	3.88	36.96		16/09/2018	BANKS	Polyester	FULL BATTENED					
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.66	1.26	2.45	3.64	4.81	14.40	115%	35.16	Y	No		16/09/2018	BANKS	Polyest	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	15.68	14.51	15.10	6.15	8.20	82.52	asy76		01/05/2013	ZOUGANELI	Nylon	HEAVY				

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>GRE-21</b>				
Date <b>14/03/2009</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
4	Anchor	16.0	0.80	DELTA
4	Chain	180.0	0.80	
4	Tools	20.0	5.20	
Id	Item	Maker	Model	
1	Engine	YANMAR	4JH3E (56)	
Id	Item	Weight	Description	

<b>MEASUREMENT INVENTORY</b>								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUEL	INOX	150.0	9.30		0-0	
2	Tank	WATER	PVC HARD	200.0	9.30		0-0	
3	Tank	WATER	PVC HARD	100.0	2.40		0-0	
4	Tank	WATER	PVC HARD	100.0	2.10		0-0	
Id	Item	Weight	Distance	VCG	Description			
1	Battery	54.0	8.70	2 x 100 Ah				
2	Battery	21.0	8.70	80 Ah				
3	Battery	19.0	8.70	70 Ah				
1	Misc	10.0	1.00	ANCHOR WINDLASS				

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>TRITON</b>
Certificate Number	<b>00263</b>
Sail Nr	<b>GRE-1356</b>
Issued On	<b>26/08/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1192.4</b>	<b>971.4</b>	<b>851.1</b>	<b>769.8</b>	<b>720.3</b>	<b>701.3</b>	<b>697.0</b>
52°	<b>761.5</b>	<b>635.1</b>	<b>561.9</b>	<b>516.8</b>	<b>495.1</b>	<b>485.2</b>	<b>481.0</b>
60°	<b>711.7</b>	<b>599.9</b>	<b>532.5</b>	<b>499.3</b>	<b>481.7</b>	<b>471.9</b>	<b>465.7</b>
75°	<b>649.4</b>	<b>545.1</b>	<b>495.6</b>	<b>475.6</b>	<b>466.2</b>	<b>458.4</b>	<b>442.4</b>
90°	<b>623.5</b>	<b>524.3</b>	<b>481.9</b>	<b>461.4</b>	<b>446.3</b>	<b>435.2</b>	<b>422.6</b>
110°	<b>646.4</b>	<b>538.1</b>	<b>487.6</b>	<b>463.6</b>	<b>444.8</b>	<b>426.3</b>	<b>396.2</b>
120°	<b>684.3</b>	<b>563.9</b>	<b>500.2</b>	<b>472.5</b>	<b>453.7</b>	<b>433.9</b>	<b>396.6</b>
135°	<b>794.7</b>	<b>637.6</b>	<b>545.9</b>	<b>494.5</b>	<b>469.0</b>	<b>449.8</b>	<b>411.7</b>
150°	<b>939.8</b>	<b>736.3</b>	<b>624.6</b>	<b>551.8</b>	<b>509.5</b>	<b>483.5</b>	<b>451.4</b>
Run VMG	<b>1085.2</b>	<b>850.2</b>	<b>721.2</b>	<b>637.1</b>	<b>588.3</b>	<b>540.5</b>	<b>478.6</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1138.8</b>	<b>910.8</b>	<b>786.1</b>	<b>703.5</b>	<b>654.3</b>	<b>620.9</b>	<b>587.8</b>
Circular Random	<b>924.9</b>	<b>739.6</b>	<b>638.2</b>	<b>578.0</b>	<b>540.5</b>	<b>516.2</b>	<b>487.7</b>
Coastal / Long Distance	<b>1133.4</b>	<b>849.8</b>	<b>698.1</b>	<b>601.2</b>	<b>549.5</b>	<b>513.3</b>	<b>462.8</b>
Non Spinnaker	<b>999.7</b>	<b>790.9</b>	<b>674.4</b>	<b>603.8</b>	<b>559.1</b>	<b>530.1</b>	<b>496.7</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>45.8°</b>	<b>43.5°</b>	<b>42.4°</b>	<b>42.0°</b>	<b>40.9°</b>	<b>40.5°</b>	<b>40.5°</b>
Beat VMG	<b>3.02</b>	<b>3.71</b>	<b>4.23</b>	<b>4.68</b>	<b>5.00</b>	<b>5.13</b>	<b>5.16</b>
52°	<b>4.73</b>	<b>5.67</b>	<b>6.41</b>	<b>6.97</b>	<b>7.27</b>	<b>7.42</b>	<b>7.48</b>
60°	<b>5.06</b>	<b>6.00</b>	<b>6.76</b>	<b>7.21</b>	<b>7.47</b>	<b>7.63</b>	<b>7.73</b>
75°	<b>5.54</b>	<b>6.60</b>	<b>7.26</b>	<b>7.57</b>	<b>7.72</b>	<b>7.85</b>	<b>8.14</b>
90°	<b>5.77</b>	<b>6.87</b>	<b>7.47</b>	<b>7.80</b>	<b>8.07</b>	<b>8.27</b>	<b>8.52</b>
110°	<b>5.57</b>	<b>6.69</b>	<b>7.38</b>	<b>7.76</b>	<b>8.09</b>	<b>8.44</b>	<b>9.09</b>
120°	<b>5.26</b>	<b>6.38</b>	<b>7.20</b>	<b>7.62</b>	<b>7.94</b>	<b>8.30</b>	<b>9.08</b>
135°	<b>4.53</b>	<b>5.65</b>	<b>6.59</b>	<b>7.28</b>	<b>7.68</b>	<b>8.00</b>	<b>8.74</b>
150°	<b>3.83</b>	<b>4.89</b>	<b>5.76</b>	<b>6.52</b>	<b>7.07</b>	<b>7.45</b>	<b>7.98</b>
Run VMG	<b>3.32</b>	<b>4.23</b>	<b>4.99</b>	<b>5.65</b>	<b>6.12</b>	<b>6.66</b>	<b>7.52</b>
Gybe Angles	<b>145.5°</b>	<b>147.0°</b>	<b>147.0°</b>	<b>147.0°</b>	<b>149.0°</b>	<b>175.0°</b>	<b>178.0°</b>