



**2020**  
**ORC Club**  
**Certificate**

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



**Certificate**  
Number **00335**  
Issued On **10/06/2020**  
ORC Ref **03420000KBW**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	718kg
Maximum	650kg
Minimum*	488kg

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>689.5</b>	<b>0.8702</b>
Non Spin OSN <b>666.2</b>	<b>0.9006</b>

**Sails Limitations**

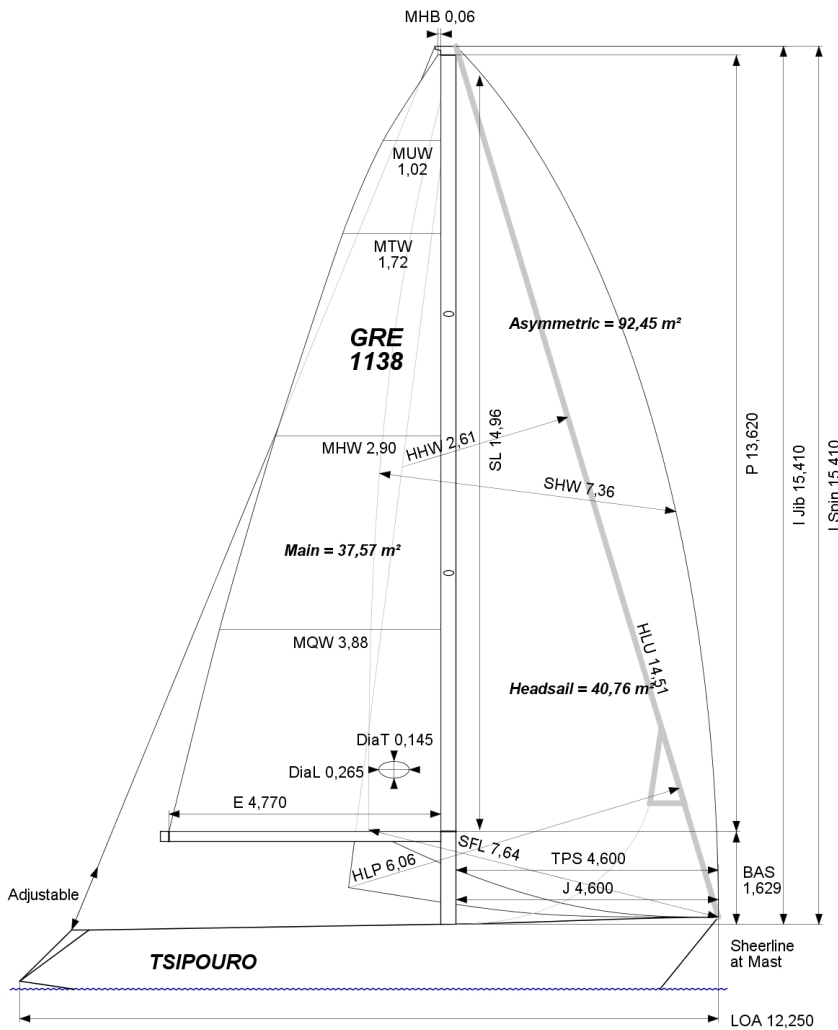
Headsails **1** Spinnakers **4**  
**Woven Polyester**  
**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 92.45**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**  
**CDL = 9.025**

**Stability (Estimated)**  
Limit Positive Stab.: **110.2°**  
Stability Index: **114.8**

**Owner**



<b>BOAT</b> Name <b>TSIPOURO</b> Sail Nr <b>GRE-1138</b>		<b>GPH</b> <b>658.8</b>	<b>HULL</b> Data File <b>GR1138</b> LOA <b>12.250m</b> Offset File <b>H011.BOF</b> MB <b>3.908m</b> Displacement <b>8,944kg</b> Draft <b>2.031m</b>			
<b>CLASS</b> Class <b>OLYMPIC SEA 42</b> Designer <b>D. PETERSON</b> Builder <b>OLYMPIC MARINE</b> Series <b>01/1985</b> Age Date <b>01/1990</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.486%</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> HULL DESIGN SAME AS SUN LEGEND 41		IMSL <b>10.373m</b> VCGD <b>-0.004m</b> Sink <b>23.09kg/mm</b> RL <b>7.675m</b> VCGM <b>0.112m</b> WS <b>32.57m²</b> LSM0 <b>10.297m</b> Displacement/Length ratio <b>8.1922</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>0.580</b> Type <b>Feathering 2 blades</b> PIPA <b>0.0043</b>		<b>CENTERBOARD</b> <b>N/A</b>				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>638.9</b>			<b>720.0</b>		
Time on Time	<b>0.9391</b>			<b>0.9376</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>770.5</b>	<b>579.4</b>	<b>510.5</b>	<b>1001.2</b>	<b>728.6</b>	<b>618.5</b>
Time on Time	<b>0.8761</b>	<b>1.1649</b>	<b>1.3222</b>	<b>0.6742</b>	<b>0.9264</b>	<b>1.0914</b>

<b>BOAT</b>	
Name <b>TSIPOURO</b>	Sail Nr <b>GRE-1138</b>
File <b>GR1138</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/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>13.620</b>	E <b>4.770</b> MDT1 <b>0.145</b> MW
IG <b>15.410</b>	J <b>4.600</b> MDL1 <b>0.265</b> GO
ISP <b>15.410</b>	SFJ <b>0.000</b> MDT2 <b>0.145</b> BD
BAS <b>1.629</b>	SPL MDL2 <b>0.265</b> MWT
FSD <b>-3.000</b>	TPS <b>4.600</b> TL <b>0.000</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>06/05/2005</b>	SG
FFM <b>1.169</b>	FF <b>1.252</b> SFFP <b>0.490</b>
FAM <b>1.085</b>	FA <b>1.042</b> SAFF <b>11.031</b>
LCF from stem on CL / on sheer	<b>6.627 / 6.875</b>
Maximum beam station from stem	<b>6.630</b>
RM Measured	<b>176.0kg-m</b>
RM Default	<b>170.9kg-m</b>
Limit of positive stability / Stab.Index	<b>110.2° / 114.8</b>
Freeboard at mast at 4.600	<b>1.132</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>0.580</b>
Type <b>Feathering 2 blades</b>	PBW
Twin Screw <b>No</b>	PIPA <b>0.0043</b>
PSA	PHL ST3 ESL
PSD	ST1 ST4
PHD	ST2 ST5

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<b>COMMENTS</b>	
HULL DESIGN SAME AS SUN LEGEND 41	

<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					
2	0.06	1.02	1.72	2.90	3.88	37.39		13/06/2011	KAKITSIS	Dacron						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
OLDJ		0.55	1.16	2.61	4.32	6.06	14.51	132%	40.76		No		13/03/2010		Dacron	
<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				
1	15.42	14.50	14.96	7.36	7.64	92.46	asym		27/04/2009		Unknown					

<b>MEASUREMENT INVENTORY</b>					
Measurer					
Date					
Comment					
<b>Internal Ballast total = 0.0</b>					
Id	Item	Weight	Distance	VCG Description	
OR	Anchor	240.0	0.60	*Legacy Anchor*	
Id	Item	Weight	Description		

<b>MEASUREMENT INVENTORY</b>				
Id	Item	Weight	Distance	VCG Description

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>TSIPOURO</b>
Sail Nr	<b>GRE-1138</b>
Certificate Number	<b>00335</b>
Issued On	<b>10/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1159.6</b>	<b>951.8</b>	<b>837.4</b>	<b>762.2</b>	<b>720.9</b>	<b>705.4</b>	<b>700.6</b>
52°	<b>744.9</b>	<b>626.5</b>	<b>554.9</b>	<b>515.3</b>	<b>498.1</b>	<b>490.7</b>	<b>486.7</b>
60°	<b>698.1</b>	<b>592.7</b>	<b>529.0</b>	<b>499.8</b>	<b>485.1</b>	<b>477.0</b>	<b>471.7</b>
75°	<b>666.0</b>	<b>566.0</b>	<b>511.7</b>	<b>487.9</b>	<b>473.4</b>	<b>463.1</b>	<b>450.0</b>
90°	<b>672.7</b>	<b>563.4</b>	<b>501.7</b>	<b>476.7</b>	<b>464.7</b>	<b>457.1</b>	<b>436.2</b>
110°	<b>672.7</b>	<b>554.0</b>	<b>496.1</b>	<b>471.0</b>	<b>452.9</b>	<b>436.7</b>	<b>415.5</b>
120°	<b>696.4</b>	<b>572.8</b>	<b>504.5</b>	<b>475.7</b>	<b>456.4</b>	<b>438.6</b>	<b>405.8</b>
135°	<b>775.8</b>	<b>629.0</b>	<b>539.8</b>	<b>494.0</b>	<b>470.6</b>	<b>452.5</b>	<b>417.8</b>
150°	<b>916.1</b>	<b>723.8</b>	<b>617.7</b>	<b>546.6</b>	<b>508.3</b>	<b>485.1</b>	<b>455.3</b>
Run VMG	<b>1057.9</b>	<b>835.7</b>	<b>713.3</b>	<b>631.2</b>	<b>586.9</b>	<b>539.4</b>	<b>481.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1108.7</b>	<b>893.8</b>	<b>775.4</b>	<b>696.7</b>	<b>653.9</b>	<b>622.4</b>	<b>591.0</b>
Circular Random	<b>919.9</b>	<b>737.6</b>	<b>638.3</b>	<b>579.9</b>	<b>544.1</b>	<b>521.3</b>	<b>494.6</b>
Coastal / Long Distance	<b>1103.7</b>	<b>837.6</b>	<b>692.0</b>	<b>599.3</b>	<b>552.7</b>	<b>519.5</b>	<b>470.3</b>
Non Spinnaker	<b>979.7</b>	<b>778.6</b>	<b>667.3</b>	<b>600.5</b>	<b>558.7</b>	<b>532.1</b>	<b>502.4</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>44.3°</b>	<b>42.4°</b>	<b>41.6°</b>	<b>41.8°</b>	<b>40.9°</b>	<b>40.1°</b>	<b>40.1°</b>
Beat VMG	<b>3.10</b>	<b>3.78</b>	<b>4.30</b>	<b>4.72</b>	<b>4.99</b>	<b>5.10</b>	<b>5.14</b>
52°	<b>4.83</b>	<b>5.75</b>	<b>6.49</b>	<b>6.99</b>	<b>7.23</b>	<b>7.34</b>	<b>7.40</b>
60°	<b>5.16</b>	<b>6.07</b>	<b>6.81</b>	<b>7.20</b>	<b>7.42</b>	<b>7.55</b>	<b>7.63</b>
75°	<b>5.41</b>	<b>6.36</b>	<b>7.04</b>	<b>7.38</b>	<b>7.60</b>	<b>7.77</b>	<b>8.00</b>
90°	<b>5.35</b>	<b>6.39</b>	<b>7.18</b>	<b>7.55</b>	<b>7.75</b>	<b>7.88</b>	<b>8.25</b>
110°	<b>5.35</b>	<b>6.50</b>	<b>7.26</b>	<b>7.64</b>	<b>7.95</b>	<b>8.24</b>	<b>8.66</b>
120°	<b>5.17</b>	<b>6.28</b>	<b>7.14</b>	<b>7.57</b>	<b>7.89</b>	<b>8.21</b>	<b>8.87</b>
135°	<b>4.64</b>	<b>5.72</b>	<b>6.67</b>	<b>7.29</b>	<b>7.65</b>	<b>7.96</b>	<b>8.62</b>
150°	<b>3.93</b>	<b>4.97</b>	<b>5.83</b>	<b>6.59</b>	<b>7.08</b>	<b>7.42</b>	<b>7.91</b>
Run VMG	<b>3.40</b>	<b>4.31</b>	<b>5.05</b>	<b>5.70</b>	<b>6.13</b>	<b>6.67</b>	<b>7.48</b>
Gybe Angles	<b>145.5°</b>	<b>147.3°</b>	<b>147.0°</b>	<b>147.0°</b>	<b>149.8°</b>	<b>175.0°</b>	<b>178.0°</b>