

<b>BOAT</b> Name <b>ENTROPY</b> Sail Nr <b>USA 50400</b>	<b>GPH</b> <b>546.4</b>	<b>HULL</b> Length Overall <b>12.490m</b> Maximum Beam <b>3.858m</b> Displacement <b>6,180kg</b> Draft <b>2.915m</b> IMS Reg. Division Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder Crew Arm Extension
<b>GENERAL</b> Class <b>TRIPP 41</b> Designer <b>TRIPP</b> Builder <b>HOLBY</b> Series <b>01/1997</b> Age <b>06/1997</b> Age Allowance <b>0.487%</b> Offset File <b>US6019.OFF - 23/06/2016 11:19:38</b> Measurement by <b>WILLIAMS - 10/04/2002</b>		IMSL <b>11.338m</b> VCGD <b>-0.154m</b> Sink <b>23.49kg/mm</b> RL <b>11.061m</b> VCGM <b>-0.154m</b> WS <b>30.43m<sup>2</sup></b> LSMO <b>11.005m</b> Displacement/Length ratio <b>4.6368</b>



World Leader in Rating Technology

**2017**  
ORC International  
Certificate

**Rating Office**

Offshore  
Racing  
Congress



World Leader in Rating Technology

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	<b>532.1</b>			<b>599.2</b>		
Time On Time	<b>1.1276</b>			<b>1.1266</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>620.7</b>	<b>485.9</b>	<b>432.1</b>	<b>804.6</b>	<b>600.3</b>	<b>526.5</b>
Time on Time	<b>1.0874</b>	<b>1.3891</b>	<b>1.5621</b>	<b>0.8389</b>	<b>1.1244</b>	<b>1.2820</b>

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>923.1</b>	<b>759.3</b>	<b>668.6</b>	<b>634.9</b>	<b>618.1</b>	<b>605.4</b>	<b>593.4</b>
52°	<b>604.1</b>	<b>504.5</b>	<b>464.6</b>	<b>452.1</b>	<b>445.5</b>	<b>441.4</b>	<b>430.7</b>
60°	<b>568.2</b>	<b>483.1</b>	<b>452.3</b>	<b>438.7</b>	<b>431.0</b>	<b>426.0</b>	<b>413.4</b>
75°	<b>538.6</b>	<b>469.3</b>	<b>441.4</b>	<b>420.5</b>	<b>406.6</b>	<b>398.9</b>	<b>391.3</b>
90°	<b>539.7</b>	<b>462.9</b>	<b>440.7</b>	<b>417.3</b>	<b>394.4</b>	<b>377.4</b>	<b>362.4</b>
110°	<b>537.1</b>	<b>457.5</b>	<b>425.6</b>	<b>408.1</b>	<b>392.2</b>	<b>376.9</b>	<b>349.9</b>
120°	<b>553.2</b>	<b>464.2</b>	<b>429.1</b>	<b>397.7</b>	<b>379.0</b>	<b>363.2</b>	<b>334.1</b>
135°	<b>621.3</b>	<b>499.0</b>	<b>450.3</b>	<b>420.1</b>	<b>388.9</b>	<b>357.5</b>	<b>304.8</b>
150°	<b>739.4</b>	<b>591.1</b>	<b>500.8</b>	<b>453.9</b>	<b>431.0</b>	<b>407.5</b>	<b>347.3</b>
Run VMG	<b>853.8</b>	<b>682.5</b>	<b>578.3</b>	<b>523.3</b>	<b>497.1</b>	<b>464.8</b>	<b>401.0</b>

**Certificate**

Number **US6019**  
ORC Ref **USA00000994**  
Issued On **02/06/2017**  
VPP Ver. **2017 1.00**  
Valid until **28/02/2018**

**Crew Weight**

Declared **810kg**  
Default\* **789kg**  
Non Manual Pwr

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>583.7</b>	<b>1.0279</b>
Non Spin OSN	<b>569.3</b>	<b>1.0539</b>

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	<b>888.4</b>	<b>720.9</b>	<b>623.4</b>	<b>579.1</b>	<b>557.6</b>	<b>535.1</b>	<b>497.2</b>
Circular Random	<b>747.8</b>	<b>605.8</b>	<b>530.5</b>	<b>487.0</b>	<b>459.6</b>	<b>440.1</b>	<b>410.8</b>
Ocean for PCS	<b>916.9</b>	<b>710.4</b>	<b>594.7</b>	<b>524.3</b>	<b>477.8</b>	<b>444.0</b>	<b>393.5</b>
Non Spinnaker	<b>815.5</b>	<b>653.9</b>	<b>565.8</b>	<b>513.5</b>	<b>480.1</b>	<b>457.4</b>	<b>426.8</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</b>

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.7°</b>	<b>41.5°</b>	<b>39.7°</b>	<b>38.2°</b>	<b>37.2°</b>	<b>36.3°</b>	<b>36.0°</b>
Beat VMG	<b>3.90</b>	<b>4.74</b>	<b>5.38</b>	<b>5.67</b>	<b>5.82</b>	<b>5.95</b>	<b>6.07</b>
52°	<b>5.96</b>	<b>7.14</b>	<b>7.75</b>	<b>7.96</b>	<b>8.08</b>	<b>8.16</b>	<b>8.36</b>
60°	<b>6.34</b>	<b>7.45</b>	<b>7.96</b>	<b>8.21</b>	<b>8.35</b>	<b>8.45</b>	<b>8.71</b>
75°	<b>6.68</b>	<b>7.67</b>	<b>8.16</b>	<b>8.56</b>	<b>8.85</b>	<b>9.02</b>	<b>9.20</b>
90°	<b>6.67</b>	<b>7.78</b>	<b>8.17</b>	<b>8.63</b>	<b>9.13</b>	<b>9.54</b>	<b>9.93</b>
110°	<b>6.70</b>	<b>7.87</b>	<b>8.46</b>	<b>8.82</b>	<b>9.18</b>	<b>9.55</b>	<b>10.29</b>
120°	<b>6.51</b>	<b>7.76</b>	<b>8.39</b>	<b>9.05</b>	<b>9.50</b>	<b>9.91</b>	<b>10.78</b>
135°	<b>5.79</b>	<b>7.21</b>	<b>8.00</b>	<b>8.57</b>	<b>9.26</b>	<b>10.07</b>	<b>11.81</b>
150°	<b>4.87</b>	<b>6.09</b>	<b>7.19</b>	<b>7.93</b>	<b>8.35</b>	<b>8.83</b>	<b>10.37</b>
Run VMG	<b>4.22</b>	<b>5.27</b>	<b>6.23</b>	<b>6.88</b>	<b>7.24</b>	<b>7.74</b>	<b>8.98</b>
Gybe Angles	<b>142.9°</b>	<b>145.3°</b>	<b>148.7°</b>	<b>151.7°</b>	<b>150.8°</b>	<b>176.3°</b>	<b>142.6°</b>

**Class Division Length**

CDL = **11.200**

**Storm Sails Areas**

Heavy Weather Jib **35.58**  
Storm Jib (JL=10.55) **13.18**  
Storm Triesail **16.59**

**Owner**

<b>BOAT</b>	
Name <b>ENTROPY</b>	Sail Nr <b>USA50400</b>
File <b>US6019</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>22/06/2015</b>		SG <b>1.0210</b>	
FFM <b>1.350</b>	FF <b>1.351</b>	SFFP <b>0.174</b>	
FAM <b>1.099</b>	FA <b>1.100</b>	SAFP <b>11.942</b>	
W1 <b>126.4</b>	PD1 <b>435.0</b>	WD <b>8.880</b>	
W2 <b>126.4</b>	PD2 <b>435.0</b>	GSA <b>1.0</b>	
W3 <b>126.4</b>	PD3 <b>435.0</b>	RSA <b>1.0</b>	
W4 <b>126.4</b>	PD4 <b>435.0</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.699 / 6.959</b>	
Maximum beam station from stem		<b>7.949</b>	
RM Measured		<b>203.2kg·m</b>	
RM Default		<b>201.5kg·m</b>	
Limit of positive stability / Stab.Index		<b>123.1° / 122.8</b>	
Freeboard at mast at 0.000		<b>1.168</b>	

<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	Jib Furler		
Fiber Rigging <b>Yes</b>	Main Furler		
Lenticular Rigging	Without Backstay		
Articulated Bowsprit <b>No</b>			
P <b>16.720</b>	E <b>5.670</b>	MDT1 <b>0.120</b>	MW <b>0.244</b>
IG <b>16.190</b>	J <b>5.030</b>	MDL1 <b>0.243</b>	GO <b>0.258</b>
ISP <b>18.260</b>	SFJ <b>-0.003</b>	MDT2 <b>0.093</b>	BD <b>0.229</b>
BAS <b>1.750</b>	SPL <b>0.000</b>	MDL2 <b>0.107</b>	MWT <b>181.00</b>
FSP <b>0.073</b>	TPS <b>6.570</b>	TL <b>2.250</b>	MCG <b>5.550</b>



World Leader in Rating Technology

**2017**

**IMS Measurement Certificate**

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.411</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.116</b>		
Twin Screw	PIPA <b>0.0035</b>		
ST1 <b>0.043</b>	ST3 <b>0.180</b>	ST5 <b>0.232</b>	
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>1.250</b>	

<b>Certificate</b>	
Number <b>US6019</b>	
ORC Ref <b>USA00000994</b>	
Issued On <b>02/06/2017</b>	
VPP Ver. <b>2017 1.00</b>	
Valid until <b>28/02/2018</b>	

<b>COMMENTS</b>	
NEW MAST 5/13	
NEW KEEL 5/13	

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	



Invalid for Racing

World Leader In Rating Technology

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.37	2.35	3.78	4.79	58.09	59.44	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	175.71		AS · (SFL + 4·SHW) / 6	
	20.90	17.05	18.98	11.23	10.64				

<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
	1.43	2.69	3.89	4.97	16.41	42.91					Unknow	

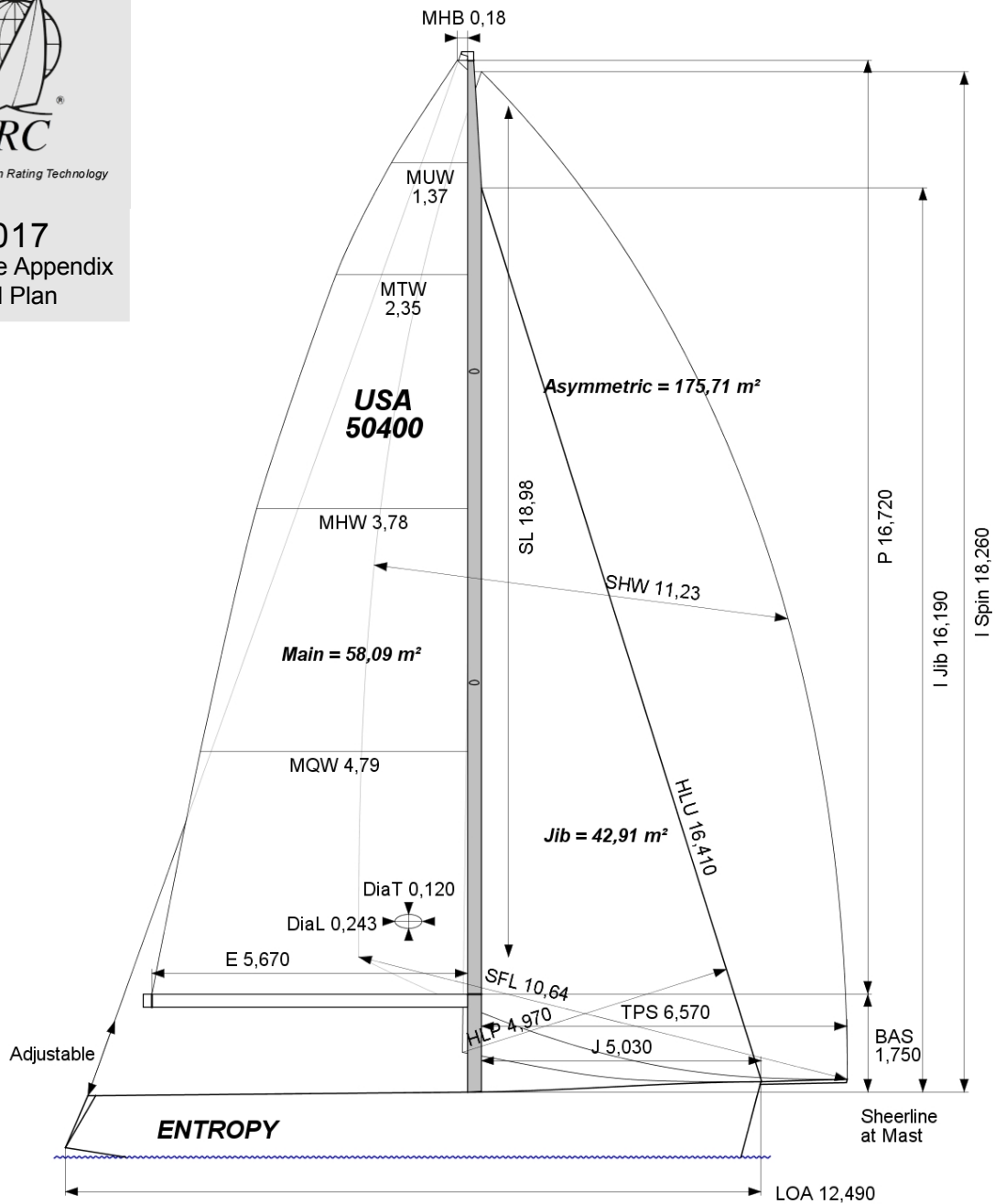
<b>MEASUREMENT INVENTORY</b>				
Measurer	Date	Comment		
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<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>
	Tank	FUEL			0.00			FUEL
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				



World Leader in Rating Technology

2017  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2017	0.180	1.37	2.35	3.78	4.79	58.09				Unknown	

**HEADSAILS (1)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1			1.43	2.69	3.89	4.97	16.41	99%	42.91							Unknown

**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
A4	20.90	17.05	18.98	11.23	10.64	175.71	asym				Unknown	