

<b>BOAT</b> Name <b>CHEETAH</b> Sail Nr <b>USA 50473</b>	<b>GPH</b> <b>570.8</b>	<b>HULL</b> Length Overall <b>10.910m</b> Maximum Beam <b>3.588m</b> Displacement <b>3,882kg</b> Draft <b>2.254m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>MUMM 36</b> Designer <b>FARR</b> Builder <b>CARROLL</b> Series <b>01/1993</b> Age <b>12/1994</b> Age Allowance <b>0.487%</b> Offset File <b>MUMM36.OFF - 30/06/1994 07:56:34</b> Measurement by - <b>26/04/2017</b>		IMSL <b>9.887m</b> VCGD <b>-0.227m</b> Sink <b>17.10kg/mm</b> RL <b>10.021m</b> VCGM <b>-0.242m</b> WS <b>22.28m<sup>2</sup></b> LSM0 <b>9.593m</b> Displacement/Length ratio <b>4.3974</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>556.4</b>			<b>625.6</b>		
Time on Time	<b>1.0783</b>			<b>1.0790</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>636.4</b>	<b>511.3</b>	<b>458.6</b>	<b>814.6</b>	<b>626.5</b>	<b>557.5</b>
Time on Time	<b>1.0607</b>	<b>1.3201</b>	<b>1.4718</b>	<b>0.8286</b>	<b>1.0775</b>	<b>1.2108</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>915.2</b>	<b>757.2</b>	<b>690.6</b>	<b>667.1</b>	<b>655.8</b>	<b>652.1</b>	<b>644.8</b>
52°	<b>606.9</b>	<b>519.3</b>	<b>492.6</b>	<b>482.6</b>	<b>477.1</b>	<b>473.8</b>	<b>469.2</b>
60°	<b>577.7</b>	<b>505.7</b>	<b>481.5</b>	<b>469.3</b>	<b>462.1</b>	<b>457.7</b>	<b>453.5</b>
75°	<b>557.9</b>	<b>497.4</b>	<b>471.2</b>	<b>451.3</b>	<b>437.4</b>	<b>429.5</b>	<b>422.0</b>
90°	<b>566.1</b>	<b>496.0</b>	<b>470.9</b>	<b>446.1</b>	<b>424.2</b>	<b>407.2</b>	<b>389.6</b>
110°	<b>559.7</b>	<b>485.4</b>	<b>452.3</b>	<b>432.1</b>	<b>414.4</b>	<b>397.9</b>	<b>370.0</b>
120°	<b>573.4</b>	<b>489.9</b>	<b>453.0</b>	<b>419.8</b>	<b>397.5</b>	<b>379.3</b>	<b>347.0</b>
135°	<b>643.5</b>	<b>520.1</b>	<b>474.1</b>	<b>438.6</b>	<b>402.7</b>	<b>367.6</b>	<b>310.3</b>
150°	<b>762.6</b>	<b>611.0</b>	<b>521.2</b>	<b>477.8</b>	<b>451.3</b>	<b>420.8</b>	<b>351.5</b>
Run VMG	<b>880.6</b>	<b>705.5</b>	<b>601.8</b>	<b>550.9</b>	<b>521.1</b>	<b>485.9</b>	<b>405.8</b>

**Certificate**

Number **US6204**  
ORC Ref **USAX018PBAA**  
Issued On **09/05/2018**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

**Crew Weight**

Default **649kg**  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>609.2</b>	<b>0.9849</b>
Non Spin OSN	<b>594.1</b>	<b>1.0100</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>897.9</b>	<b>731.4</b>	<b>646.2</b>	<b>609.0</b>	<b>588.4</b>	<b>569.0</b>	<b>525.3</b>
Circular Random	<b>770.6</b>	<b>628.9</b>	<b>554.9</b>	<b>512.7</b>	<b>485.9</b>	<b>466.6</b>	<b>436.1</b>
Coastal / Long Distance	<b>896.2</b>	<b>690.2</b>	<b>588.1</b>	<b>532.4</b>	<b>500.2</b>	<b>470.6</b>	<b>418.3</b>
Non Spinnaker	<b>840.0</b>	<b>678.0</b>	<b>591.1</b>	<b>540.3</b>	<b>508.3</b>	<b>486.4</b>	<b>456.1</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>41.8°</b>	<b>40.5°</b>	<b>38.0°</b>	<b>37.0°</b>	<b>36.5°</b>	<b>36.5°</b>	<b>36.3°</b>
Beat VMG	<b>3.93</b>	<b>4.75</b>	<b>5.21</b>	<b>5.40</b>	<b>5.49</b>	<b>5.52</b>	<b>5.58</b>
52°	<b>5.93</b>	<b>6.93</b>	<b>7.31</b>	<b>7.46</b>	<b>7.55</b>	<b>7.60</b>	<b>7.67</b>
60°	<b>6.23</b>	<b>7.12</b>	<b>7.48</b>	<b>7.67</b>	<b>7.79</b>	<b>7.87</b>	<b>7.94</b>
75°	<b>6.45</b>	<b>7.24</b>	<b>7.64</b>	<b>7.98</b>	<b>8.23</b>	<b>8.38</b>	<b>8.53</b>
90°	<b>6.36</b>	<b>7.26</b>	<b>7.65</b>	<b>8.07</b>	<b>8.49</b>	<b>8.84</b>	<b>9.24</b>
110°	<b>6.43</b>	<b>7.42</b>	<b>7.96</b>	<b>8.33</b>	<b>8.69</b>	<b>9.05</b>	<b>9.73</b>
120°	<b>6.28</b>	<b>7.35</b>	<b>7.95</b>	<b>8.58</b>	<b>9.06</b>	<b>9.49</b>	<b>10.37</b>
135°	<b>5.59</b>	<b>6.92</b>	<b>7.59</b>	<b>8.21</b>	<b>8.94</b>	<b>9.79</b>	<b>11.60</b>
150°	<b>4.72</b>	<b>5.89</b>	<b>6.91</b>	<b>7.53</b>	<b>7.98</b>	<b>8.55</b>	<b>10.24</b>
Run VMG	<b>4.09</b>	<b>5.10</b>	<b>5.98</b>	<b>6.53</b>	<b>6.91</b>	<b>7.41</b>	<b>8.87</b>
Gybe Angles	<b>143.5°</b>	<b>146.2°</b>	<b>149.6°</b>	<b>151.7°</b>	<b>148.3°</b>	<b>145.8°</b>	<b>142.0°</b>

**Class Division Length**

CDL = **9.955**

**Storm Sails Areas**

Heavy Weather Jib **24.26**  
Storm Jib (JL=8.72) **8.99**  
Storm Trysail **12.21**

**Owner**

<b>BOAT</b>		
Name	CHEETAH	Sail Nr USA 50473
File	US6204	Data in meters/kilograms

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date 26/04/2017				SG 1.0080	
FFM	1.153	FF	1.165	SFFP	0.414
FAM	0.914	FA	0.914	SAFP	10.334
W1	59.5	PD1	516.2	WD	12.640
W2	59.5	PD2	515.1	GSA	1.0
W3	59.5	PD3	516.6	RSA	1.0
W4	59.5	PD4	519.9	PLM	9000.0
LCF from stem on CL / on sheer				6.114 / 6.349	
Maximum beam station from stem				6.703	
RM Measured				114.6kg-m	
RM Default				106.9kg-m	
Limit of positive stability / Stab.Index				124.6° / 119.9	
Freeboard at mast at 3.985				1.014	



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<b>RIG</b>					
Forestay Tension	Aft	Spreaders		2	
Inner Stay	None Fitted	Runners		2	
Carbon Mast	Yes	Jumper Struts		None	
Taper Hollows	No	Jib Furler		No	
Fiber Rigging	No	Main Furler		No	
Lenticular Rigging	No	Without Backstay		No	
Articulated Bowsprit	No				
P	13.864	E	5.029	MDT1	0.122
IG	13.331	J	3.800	MDL1	0.168
ISP	15.726	SFJ	0.185	MDT2	0.111
BAS	1.967	SPL	0.000	MDL2	0.130
FSP	0.064	TPS	5.773	TL	1.400
				MW	0.165
				GO	0.186
				BD	0.150
				MWT	117.00
				MCG	4.835

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

<b>PROPELLER</b>			
Installation	Strut	PRD	0.438
Type	Folding 2 blades	PBW	0.118
Twin Screw	No	PIPA	0.0034
ST1	0.042	ST3	0.182
ST2	0.182	ST4	0.110
		ST5	0.286
		EDL	0.840

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<b>COMMENTS</b>

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

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.02	1.87	3.19	4.14	40.91	41.73	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	Area	Formula		
	17.30	15.73	16.52	9.88	10.10	136.58	AS · (SFL + 4·SHW) / 6		

<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	0.73	1.40	2.80	4.25	5.83	13.36	38.17					

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a	Ancher	0.0	0.00	
Id	Item	Weight	Distance	VCG Description

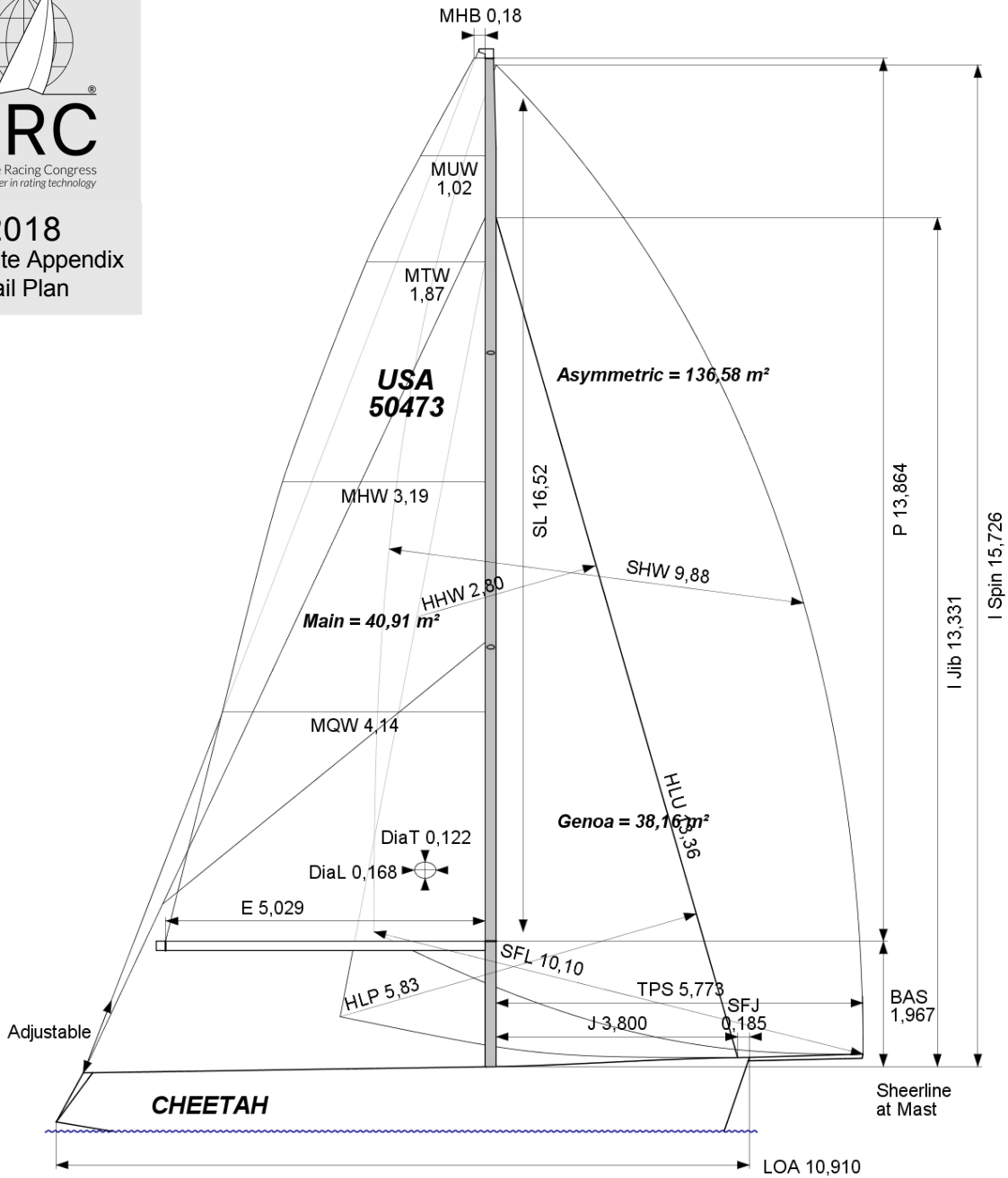
<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
		Tank				0.00	-0.10	14.8	
Id	Item	Weight	Distance	VCG Description					



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1793473	0.18	1.02	1.87	3.19	4.14	40.91			Steven		3Di Main 2018

**HEADSAILS (1)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1461125	0.08	0.73	1.40	2.80	4.25	5.83	13.36	153%	38.17						NORTH	

**SYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1793482	17.30	15.73	16.52	9.88	10.10	136.58	asym			Steven		A-2 2018