

<b>BOAT</b> Name <b>MA'M'SELLE</b> Sail Nr <b>USA-2727</b>	<b>GPH</b> <b>575.0</b>	<b>HULL</b> Length Overall <b>12.190m</b> Maximum Beam <b>3.638m</b> Displacement <b>7,343kg</b> Draft <b>2.235m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.046%</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>J-122</b> Designer <b>Johnstone</b> Builder <b>J Composites</b> Series <b>01/2006</b> Age <b>01/2007</b> Age Allowance <b>0.455%</b> Offset File <b>J122 VER.off - 17/10/2019 14:01:18</b> Measurement by - <b>17/05/2020</b>		IMSL <b>11.139m</b> VCGD <b>-0.017m</b> Sink <b>23.23kg/mm</b> RL <b>10.080m</b> VCGM <b>-0.050m</b> WS <b>31.06m<sup>2</sup></b> LSM0 <b>11.043m</b> Displacement/Length ratio <b>5.4527</b>



**2020**  
ORC International Certificate

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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>560.2</b>			<b>628.5</b>		
Time on Time	<b>1.0710</b>			<b>1.0739</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>649.9</b>	<b>511.4</b>	<b>461.9</b>	<b>838.6</b>	<b>630.2</b>	<b>557.2</b>
Time on Time	<b>1.0386</b>	<b>1.3200</b>	<b>1.4613</b>	<b>0.8049</b>	<b>1.0711</b>	<b>1.2114</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>950.2</b>	<b>784.8</b>	<b>699.1</b>	<b>665.1</b>	<b>649.6</b>	<b>641.2</b>	<b>623.0</b>
52°	<b>624.0</b>	<b>525.5</b>	<b>483.8</b>	<b>469.6</b>	<b>463.6</b>	<b>460.4</b>	<b>453.5</b>
60°	<b>590.5</b>	<b>505.1</b>	<b>471.8</b>	<b>458.0</b>	<b>451.8</b>	<b>448.2</b>	<b>442.7</b>
75°	<b>565.1</b>	<b>491.7</b>	<b>462.9</b>	<b>446.9</b>	<b>435.6</b>	<b>428.9</b>	<b>422.0</b>
90°	<b>570.4</b>	<b>490.1</b>	<b>461.4</b>	<b>444.0</b>	<b>428.3</b>	<b>414.4</b>	<b>396.2</b>
110°	<b>575.0</b>	<b>482.9</b>	<b>449.2</b>	<b>427.8</b>	<b>413.9</b>	<b>402.7</b>	<b>381.1</b>
120°	<b>589.4</b>	<b>490.8</b>	<b>453.4</b>	<b>428.4</b>	<b>404.4</b>	<b>386.1</b>	<b>361.7</b>
135°	<b>657.3</b>	<b>532.2</b>	<b>472.6</b>	<b>444.8</b>	<b>420.3</b>	<b>395.3</b>	<b>345.7</b>
150°	<b>779.2</b>	<b>623.2</b>	<b>528.3</b>	<b>477.6</b>	<b>455.5</b>	<b>436.6</b>	<b>395.5</b>
Run VMG	<b>899.8</b>	<b>719.7</b>	<b>610.1</b>	<b>551.2</b>	<b>523.1</b>	<b>485.8</b>	<b>440.1</b>

**Certificate**  
Number **US6537**  
ORC Ref **03410000KES**  
Issued On **10/06/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**  
Default **793kg**  
Maximum **793kg**  
Minimum\* **595kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **610.5 0.9828**  
Non Spin OSN **595.0 1.0085**

Selected Courses							
Windward / Leeward	<b>925.0</b>	<b>752.2</b>	<b>654.6</b>	<b>608.1</b>	<b>586.3</b>	<b>563.5</b>	<b>531.5</b>
Circular Random	<b>783.6</b>	<b>635.8</b>	<b>558.1</b>	<b>514.2</b>	<b>487.6</b>	<b>469.6</b>	<b>443.9</b>
Coastal / Long Distance	<b>922.5</b>	<b>707.2</b>	<b>592.4</b>	<b>531.2</b>	<b>499.5</b>	<b>471.3</b>	<b>426.2</b>
Non Spinnaker	<b>849.6</b>	<b>682.3</b>	<b>591.7</b>	<b>538.7</b>	<b>505.7</b>	<b>483.7</b>	<b>454.8</b>

**Sails Limitations**  
Headsails **6** Spinnakers **4**

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>42.8°</b>	<b>41.3°</b>	<b>40.1°</b>	<b>38.8°</b>	<b>38.1°</b>	<b>37.5°</b>	<b>37.1°</b>
Beat VMG	<b>3.79</b>	<b>4.59</b>	<b>5.15</b>	<b>5.41</b>	<b>5.54</b>	<b>5.61</b>	<b>5.78</b>
52°	<b>5.77</b>	<b>6.85</b>	<b>7.44</b>	<b>7.67</b>	<b>7.76</b>	<b>7.82</b>	<b>7.94</b>
60°	<b>6.10</b>	<b>7.13</b>	<b>7.63</b>	<b>7.86</b>	<b>7.97</b>	<b>8.03</b>	<b>8.13</b>
75°	<b>6.37</b>	<b>7.32</b>	<b>7.78</b>	<b>8.06</b>	<b>8.26</b>	<b>8.39</b>	<b>8.53</b>
90°	<b>6.31</b>	<b>7.35</b>	<b>7.80</b>	<b>8.11</b>	<b>8.41</b>	<b>8.69</b>	<b>9.09</b>
110°	<b>6.26</b>	<b>7.45</b>	<b>8.01</b>	<b>8.41</b>	<b>8.70</b>	<b>8.94</b>	<b>9.45</b>
120°	<b>6.11</b>	<b>7.34</b>	<b>7.94</b>	<b>8.40</b>	<b>8.90</b>	<b>9.32</b>	<b>9.95</b>
135°	<b>5.48</b>	<b>6.76</b>	<b>7.62</b>	<b>8.09</b>	<b>8.57</b>	<b>9.11</b>	<b>10.41</b>
150°	<b>4.62</b>	<b>5.78</b>	<b>6.81</b>	<b>7.54</b>	<b>7.90</b>	<b>8.25</b>	<b>9.10</b>
Run VMG	<b>4.00</b>	<b>5.00</b>	<b>5.90</b>	<b>6.53</b>	<b>6.88</b>	<b>7.41</b>	<b>8.18</b>
Gybe Angles	<b>143.5°</b>	<b>147.0°</b>	<b>148.5°</b>	<b>150.5°</b>	<b>152.3°</b>	<b>176.0°</b>	<b>178.0°</b>

**Class Division Length**  
CDL = **10.605**

**Storm Sails Areas**  
Heavy Weather Jib **37.65**  
Storm Jib (JL=10.86) **13.95**  
Storm Trysail **14.75**

**Owner**

<b>BOAT</b>	
Name <b>MA'MSELLE</b>	Sail Nr <b>USA-2727</b>
File <b>US6537</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Boom Inclining</b>	LCFD	<b>6.397</b>
Flotation date <b>19/04/2017</b>	SG	<b>1.0060</b>
FFM <b>1.338</b>	FF <b>1.360</b>	SFFP <b>0.300</b>
FAM <b>0.974</b>	FA <b>0.976</b>	SAFP <b>11.850</b>
W1 <b>128.4</b>	PD1 <b>280.9</b>	WD <b>5.009</b>
W2 <b>128.4</b>	PD2 <b>282.4</b>	GSA <b>1.0</b>
W3 <b>128.4</b>	PD3 <b>273.2</b>	RSA <b>1.0</b>
W4 <b>128.4</b>	PD4 <b>279.4</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>6.765 / 6.986</b>
Maximum beam station from stem		<b>7.800</b>
RM Measured		<b>181.6kg-m</b>
RM Default		<b>189.9kg-m</b>
Limit of positive stability / Stab.Index		<b>118.9° / 123.4</b>
Freeboard at mast at 4.420		<b>1.165</b>



**2020**  
IMS Measurement  
Certificate

<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>Yes</b>	Jib Furler	<b>No</b>	
Fiber Rigging <b>No</b>	Main Furler	<b>No</b>	
Non-Circular Rigging <b>No</b>			
Articulated Bowsprit <b>No</b>			
P <b>15.719</b>	E <b>5.360</b>	MDT1 <b>0.130</b>	MW <b>0.233</b>
IG <b>16.659</b>	J <b>4.120</b>	MDL1 <b>0.243</b>	GO <b>0.243</b>
ISP <b>17.637</b>	SFJ <b>0.300</b>	MDT2 <b>0.101</b>	BD <b>0.220</b>
BAS <b>1.760</b>	SPL	MDL2 <b>0.151</b>	MWT <b>5.70</b>
FSD <b>0.030</b>	TPS <b>6.022</b>	TL <b>1.420</b>	MCG <b>187.50</b>

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD	<b>0.420</b>
Type <b>Folding 3 blades</b>	PBW	<b>0.110</b>
Twin Screw <b>No</b>	PIPA	<b>0.0033</b>
ST1 <b>0.048</b>	ST3 <b>0.170</b>	ST5 <b>0.290</b>
ST2 <b>0.170</b>	ST4 <b>0.098</b>	EDL <b>2.400</b>

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<b>COMMENTS</b>	

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

<b>BILGEBOARD</b>		
BS	BT	BA
BF	BX	
BC	BY	



<b>SAILS (Maximum Areas)</b>						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.19	1.12	2.01	3.44	4.48	49.97 50.91 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
	19.63	15.84	17.73	9.68	9.57	142.74 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)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.08	0.66	3.70	2.49	3.70	4.86	15.89	45.86	Y	No	06/03/2020		2019 NORTH JIB

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date	<b>17/05/2020</b>			
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Volvo	MD-40 40 hp	
Id	Item	Weight Description		

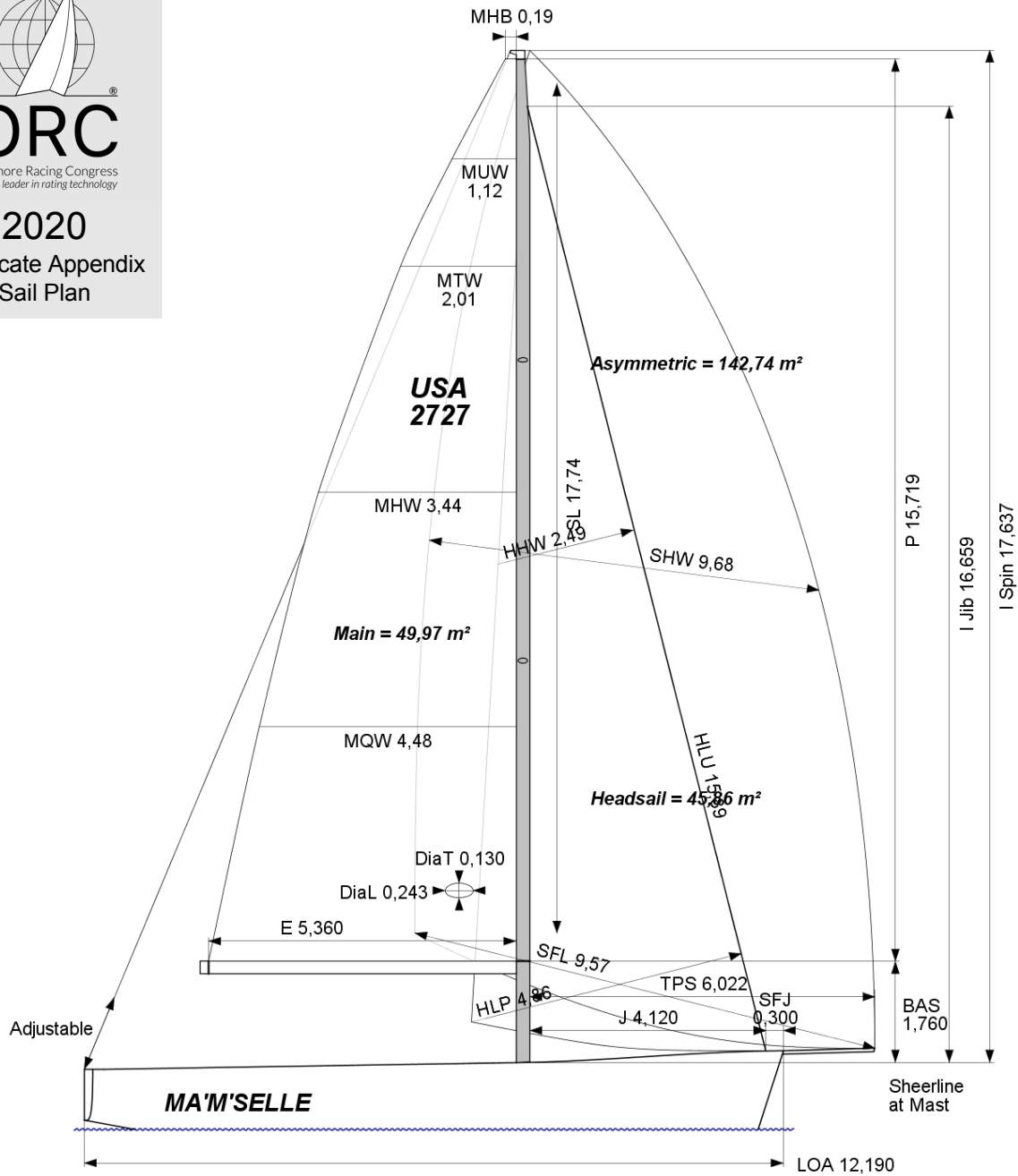
<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
3	Tank	Hot	water	alloy	35.0	9.11	0.20	0-0	centerline
2	Tank	Fuel		alloy	132.0	4.61	0.10	116-0	port side
1	Tank	Water		alloy	172.0	4.91	0.10	0-0	stbd side
Id	Item	Weight	Distance	VCG Description					
3	Battery	25.0	6.71	0.10 AGM Group 31 12V engine, centerline					
2	Battery	25.0	5.36	0.10 AGM Group 31 12V house, stbd					
1	Battery	50.0	5.31	0.10 2x AGM Group 31 12V house, port					



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)															
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment				
1234-9	0.19	1.12	2.01	3.44	4.48	49.97		06/03/2020	North						
HEADSAILS (1)															
Id	HBB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
982	0.08	0.66	3.70	2.49	3.70	4.86	15.89	118%	45.86	Y	No	06/03/2020	North		2019 NORTH JIB
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			
1234-8	19.63	15.84	17.74	9.68	9.57	142.74	asym		06/03/2020	North					