

<b>BOAT</b> Name <b>ELVIS</b> Sail Nr <b>SWE 5</b>	<b>GPH</b> <b>472.6</b>	<b>HULL</b> Length Overall <b>12.548m</b> Maximum Beam <b>4.190m</b> Displacement <b>3,801kg</b> Draft <b>2.984m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation Hull Construction <b>Carbon, Aramid, Light</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>KER40+</b> Designer <b>JASON KER</b> Builder <b>McConaghy Boats</b> Series <b>05/2017</b> Age <b>05/2017</b> Age Allowance <b>0.000%</b> Offset File <b>Ker40+#5.off - 25/05/2017 09:07:54</b> Measurement by <b>H.LINDQVIST - 24/05/2017</b>		IMSL <b>12.000m</b> VCGD <b>-1.168m</b> Sink <b>20.45kg/mm</b> RL <b>13.586m</b> VCGM <b>-1.152m</b> WS <b>26.69m<sup>2</sup></b> LSMO <b>11.206m</b> Displacement/Length ratio <b>2.7011</b>



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	<b>461.1</b>			<b>527.5</b>		
Time On Time	<b>1.3014</b>			<b>1.2796</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>547.0</b>	<b>421.1</b>	<b>351.3</b>	<b>715.6</b>	<b>536.6</b>	<b>446.7</b>
Time on Time	<b>1.2341</b>	<b>1.6029</b>	<b>1.9212</b>	<b>0.9433</b>	<b>1.2579</b>	<b>1.5110</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>812.1</b>	<b>660.6</b>	<b>599.7</b>	<b>572.9</b>	<b>557.5</b>	<b>543.6</b>	<b>536.7</b>
52°	<b>524.6</b>	<b>444.8</b>	<b>417.3</b>	<b>400.1</b>	<b>388.6</b>	<b>377.6</b>	<b>362.0</b>
60°	<b>485.8</b>	<b>427.8</b>	<b>395.5</b>	<b>376.7</b>	<b>364.8</b>	<b>356.4</b>	<b>335.6</b>
75°	<b>453.1</b>	<b>401.3</b>	<b>367.1</b>	<b>343.7</b>	<b>328.7</b>	<b>318.5</b>	<b>296.0</b>
90°	<b>446.8</b>	<b>394.8</b>	<b>348.9</b>	<b>321.1</b>	<b>300.5</b>	<b>286.2</b>	<b>268.2</b>
110°	<b>469.9</b>	<b>411.7</b>	<b>368.4</b>	<b>338.0</b>	<b>299.3</b>	<b>263.7</b>	<b>229.8</b>
120°	<b>496.7</b>	<b>419.8</b>	<b>365.9</b>	<b>336.2</b>	<b>306.3</b>	<b>272.4</b>	<b>222.1</b>
135°	<b>560.5</b>	<b>447.8</b>	<b>399.3</b>	<b>351.7</b>	<b>305.9</b>	<b>275.3</b>	<b>227.1</b>
150°	<b>674.6</b>	<b>528.8</b>	<b>454.4</b>	<b>405.5</b>	<b>364.9</b>	<b>320.6</b>	<b>242.0</b>
Run VMG	<b>779.0</b>	<b>610.6</b>	<b>524.7</b>	<b>470.5</b>	<b>421.4</b>	<b>370.2</b>	<b>279.5</b>

**Certificate**

Number **6285**  
ORC Ref **SSF00000034**  
Issued On **30/05/2017**  
VPP Ver. **2017 1.00**  
Valid until **31/12/2017**

**Crew Weight**

Declared **950kg**  
Default\* **810kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>512.9</b>	<b>1.1698</b>
Non Spin OSN	<b>501.8</b>	<b>1.1957</b>

Selected Courses							
	795.6	635.6	562.2	521.7	489.4	456.9	408.1
Windward / Leeward	<b>795.6</b>	<b>635.6</b>	<b>562.2</b>	<b>521.7</b>	<b>489.4</b>	<b>456.9</b>	<b>408.1</b>
Circular Random	<b>657.1</b>	<b>529.6</b>	<b>459.4</b>	<b>415.6</b>	<b>384.6</b>	<b>360.5</b>	<b>323.8</b>
Ocean for PCS	<b>817.6</b>	<b>627.8</b>	<b>519.1</b>	<b>449.3</b>	<b>399.2</b>	<b>359.6</b>	<b>298.5</b>
Non Spinnaker	<b>722.5</b>	<b>578.0</b>	<b>497.7</b>	<b>447.7</b>	<b>413.6</b>	<b>388.2</b>	<b>350.4</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</b>	<b>5</b>

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>43.7°</b>	<b>41.9°</b>	<b>38.9°</b>	<b>37.1°</b>	<b>36.0°</b>	<b>35.3°</b>	<b>35.8°</b>
Beat VMG	<b>4.43</b>	<b>5.45</b>	<b>6.00</b>	<b>6.28</b>	<b>6.46</b>	<b>6.62</b>	<b>6.71</b>
52°	<b>6.86</b>	<b>8.09</b>	<b>8.63</b>	<b>9.00</b>	<b>9.26</b>	<b>9.54</b>	<b>9.94</b>
60°	<b>7.41</b>	<b>8.42</b>	<b>9.10</b>	<b>9.56</b>	<b>9.87</b>	<b>10.10</b>	<b>10.73</b>
75°	<b>7.94</b>	<b>8.97</b>	<b>9.81</b>	<b>10.47</b>	<b>10.95</b>	<b>11.30</b>	<b>12.16</b>
90°	<b>8.06</b>	<b>9.12</b>	<b>10.32</b>	<b>11.21</b>	<b>11.98</b>	<b>12.58</b>	<b>13.42</b>
110°	<b>7.66</b>	<b>8.74</b>	<b>9.77</b>	<b>10.65</b>	<b>12.03</b>	<b>13.65</b>	<b>15.67</b>
120°	<b>7.25</b>	<b>8.57</b>	<b>9.84</b>	<b>10.71</b>	<b>11.75</b>	<b>13.21</b>	<b>16.21</b>
135°	<b>6.42</b>	<b>8.04</b>	<b>9.02</b>	<b>10.24</b>	<b>11.77</b>	<b>13.08</b>	<b>15.85</b>
150°	<b>5.34</b>	<b>6.81</b>	<b>7.92</b>	<b>8.88</b>	<b>9.86</b>	<b>11.23</b>	<b>14.87</b>
Run VMG	<b>4.62</b>	<b>5.90</b>	<b>6.86</b>	<b>7.65</b>	<b>8.54</b>	<b>9.72</b>	<b>12.88</b>
Gybe Angles	<b>141.0°</b>	<b>143.6°</b>	<b>149.0°</b>	<b>150.4°</b>	<b>144.9°</b>	<b>139.6°</b>	<b>143.9°</b>

**Class Division Length**

CDL = **12.794**

**Storm Sails Areas**

Heavy Weather Jib	<b>37.27</b>
Storm Jib (JL=10.80)	<b>13.80</b>
Storm Trysail	<b>16.98</b>

**Owner**

<b>BOAT</b>	
Name <b>ELVIS</b> File <b>6285 Ker40</b>	Sail Nr <b>SWE 5</b> Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>24/05/2017</b>		SG <b>1.0050</b>	
FFM <b>1.224</b>	FF <b>1.229</b>	SFFP <b>0.562</b>	
FAM <b>0.955</b>	FA <b>0.958</b>	SAFP <b>12.498</b>	
W1 <b>70.9</b>	PD1 <b>524.3</b>	WD <b>16.686</b>	
W2 <b>70.9</b>	PD2 <b>524.7</b>	GSA <b>1.0</b>	
W3 <b>70.9</b>	PD3 <b>524.3</b>	RSA <b>1.0</b>	
W4 <b>70.9</b>	PD4 <b>524.7</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.762 / 7.016</b>	
Maximum beam station from stem		<b>10.991</b>	
RM Measured		<b>177.6kg·m</b>	
RM Default		<b>152.8kg·m</b>	
Limit of positive stability / Stab.Index		<b>142.0° / 137.9</b>	
Freeboard at mast at 5.276		<b>1.147</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Stay <b>None Fitted</b>	Runners <b>1</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>17.115</b>	E <b>5.670</b>	MDT1 <b>0.127</b>	MW <b>0.226</b>
IG <b>16.561</b>	J <b>4.935</b>	MDL1 <b>0.245</b>	GO <b>0.242</b>
ISP <b>18.838</b>	SFJ <b>0.341</b>	MDT2 <b>0.097</b>	BD <b>0.267</b>
BAS <b>1.718</b>	SPL	MDL2 <b>0.117</b>	MWT <b>145.20</b>
FSP <b>0.062</b>	TPS <b>7.487</b>	TL <b>2.265</b>	MCG <b>6.136</b>


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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.446</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.120</b>		
Twin Screw	PIPA <b>0.0037</b>		
ST1 <b>0.042</b>	ST3 <b>0.180</b>	ST5 <b>0.270</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b>	EDL <b>0.820</b>	

<b>COMMENTS</b>	

<b>MOVEABLE 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	
	1.340	1.95	2.70	3.89	4.85	63.80	65.33	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	192.68	AS · (SFL + 4·SHW) / 6		
	21.53	18.00	19.77	11.76	11.45				

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HNB), HS flying rated area = 61.47												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.77	1.47	2.96	4.54	6.13	17.31	52.33		Y		Unknow	Twaron
0.13	0.84	1.48	2.72	3.89	4.97	16.82	44.52	Y		06/03/2017	Carbon	
0.13	0.80	1.41	2.60	3.79	4.95	16.75	43.18	Y		08/03/2017	Carbon	
0.10	0.79	1.40	2.59	3.76	4.88	13.97	35.66	Y	N	13/03/2017	Carbon	
0.08	0.65	1.23	2.39	3.52	4.61	15.05	35.58	Y		21/02/2017	Unknow	Twaron
0.10	0.52	0.93	1.70	2.43		10.20	11.73	Y	Y	22/03/2017	Unknow	Twaron

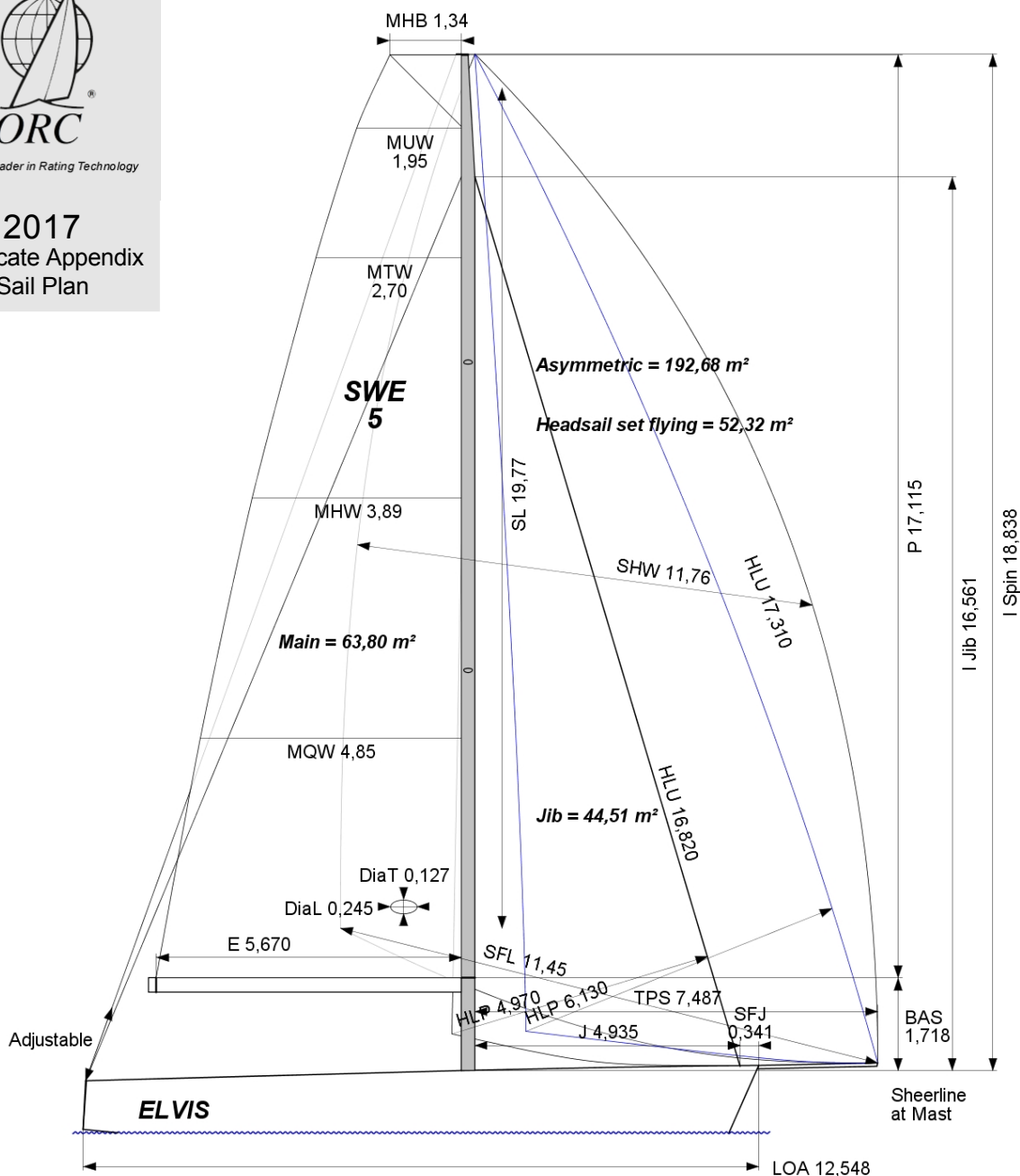
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>H. Lindqvist 301</b>				
Date <b>24/05/2017</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
e	Engine	Yanmar	3YM30	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</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>
f	Tank	FUEL	Plastic	42.0	7.90	0.00	0-0	
w2	Tank	WATER	Inflatable	50.0	12.20	0.00	0-0	
w1	Tank	WATER	Inflatable	50.0	12.20	0.00	0-0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
b	Battery	15.0	8.40	0.00	1 x Litium			



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**2017**  
Certificate Appendix  
Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
#1MA	1.340	1.95	2.70	3.89	4.85	63.80	Maneka	25/02/2017	North	Carbon						
HEADSAILS (6)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
#6JibZer	0.08	0.77	1.47	2.96	4.54	6.13	17.31	124%	52.33		Y	Priy angika		North	Unknow	Twaron
#2Jib M	0.13	0.84	1.48	2.72	3.89	4.97	16.82	101%	44.52	Y		Priy angika	06/03/2017	North	Carbon	
#3Jib H-	0.13	0.80	1.41	2.60	3.79	4.95	16.75	100%	43.18	Y		Priy angika	08/03/2017	North	Carbon	
#4Jib	0.10	0.79	1.40	2.59	3.76	4.88	13.97	99%	35.66	Y	N	Rasika	13/03/2017	North	Carbon	
#8SS-A	0.08	0.65	1.23	2.39	3.52	4.61	15.05	93%	35.58	Y	Y	IID043511	21/02/2017	North	Unknow	Twaron
#7GS-A	0.10	0.52	0.93	1.70	2.43		10.20	0%	11.73	Y	Y	Maneka	22/03/2017	North	Unknow	Twaron
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
#3A2-A	21.53	18.00	19.77	11.76	11.45	192.68	asym	Hemamli	28/02/2017	North	Nylon					
#5A1-A	20.95	18.98	19.96	10.76	11.90	182.81	asym	Hemamli	11/02/2017	North	Nylon					
#6A3-A	20.94	18.59	19.77	9.69	11.30	164.91	asym	Hemamli	02/01/2017	North	Nylon					
#7A5 Fr-A	18.70	16.05	17.38	7.07	9.20	108.54	asym	Hemamli	02/01/2017	North	Unknown					