

<b>BOAT</b> Name <b>Setsail</b> Sail Nr <b>ROU-69</b>	<b>GPH</b> <b>537.3</b>	<b>HULL</b> Length Overall <b>12.415m</b> Maximum Beam <b>3.956m</b> Displacement <b>5,690kg</b> Draft <b>2.626m</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>Yes</b> Crew Arm Extension IMSL <b>11.430m</b> VCGD <b>-0.191m</b> Sink <b>21.97kg/mm</b> RL <b>11.137m</b> VCGM <b>-0.223m</b> WS <b>29.00m<sup>2</sup></b> LSM0 <b>11.211m</b> Displacement/Length ratio <b>4.0381</b>
<b>GENERAL</b> Class <b>Farr 40</b> Designer <b>Farr</b> Builder <b>Carroll</b> Series <b>05/1997</b> Age <b>05/1997</b> Age Allowance <b>0.487%</b> Offset File <b>FARR40.OD.OFF - 13/05/2015 19:45:08</b> Measurement by - <b>20/07/2018</b>		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>523.2</b>			<b>583.9</b>		
Time on Time	<b>1.1468</b>			<b>1.1560</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>602.0</b>	<b>480.7</b>	<b>428.5</b>	<b>772.5</b>	<b>587.4</b>	<b>515.7</b>
Time on Time	<b>1.1213</b>	<b>1.4041</b>	<b>1.5753</b>	<b>0.8738</b>	<b>1.1491</b>	<b>1.3088</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>877.5</b>	<b>722.4</b>	<b>656.2</b>	<b>632.7</b>	<b>621.7</b>	<b>608.2</b>	<b>601.9</b>
52°	<b>578.3</b>	<b>489.4</b>	<b>462.5</b>	<b>453.4</b>	<b>448.5</b>	<b>444.6</b>	<b>436.4</b>
60°	<b>547.1</b>	<b>474.1</b>	<b>451.1</b>	<b>440.7</b>	<b>434.7</b>	<b>430.9</b>	<b>419.1</b>
75°	<b>522.6</b>	<b>464.2</b>	<b>440.0</b>	<b>422.3</b>	<b>410.9</b>	<b>403.9</b>	<b>395.3</b>
90°	<b>526.4</b>	<b>464.2</b>	<b>438.3</b>	<b>415.4</b>	<b>395.3</b>	<b>380.5</b>	<b>365.9</b>
110°	<b>536.2</b>	<b>458.6</b>	<b>430.3</b>	<b>412.9</b>	<b>395.7</b>	<b>380.5</b>	<b>343.5</b>
120°	<b>549.1</b>	<b>462.0</b>	<b>427.5</b>	<b>399.3</b>	<b>380.9</b>	<b>367.6</b>	<b>332.9</b>
135°	<b>606.4</b>	<b>489.1</b>	<b>444.3</b>	<b>411.6</b>	<b>378.7</b>	<b>347.0</b>	<b>303.8</b>
150°	<b>717.8</b>	<b>572.7</b>	<b>489.3</b>	<b>446.1</b>	<b>416.1</b>	<b>385.7</b>	<b>325.3</b>
Run VMG	<b>828.9</b>	<b>661.3</b>	<b>565.0</b>	<b>506.7</b>	<b>468.8</b>	<b>437.9</b>	<b>375.6</b>

**Certificate**  
Number **071/19**  
ORC Ref **ROU10026572**  
Issued On **12/09/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **810kg**  
Maximum **779kg**  
Minimum\* **584kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>548.9</b>	<b>1.0931</b>
Double H.OSN	<b>537.1</b>	<b>1.1172</b>
Non Spin GPH	<b>573.0</b>	<b>1.0471</b>
Non Spin OSN	<b>559.2</b>	<b>1.0730</b>

Selected Courses							
Windward / Leeward	<b>853.2</b>	<b>691.8</b>	<b>610.6</b>	<b>569.7</b>	<b>545.2</b>	<b>523.0</b>	<b>488.7</b>
Circular Random	<b>728.9</b>	<b>593.4</b>	<b>522.2</b>	<b>481.2</b>	<b>455.1</b>	<b>436.4</b>	<b>408.9</b>
Coastal / Long Distance	<b>850.8</b>	<b>652.1</b>	<b>554.7</b>	<b>500.3</b>	<b>468.6</b>	<b>440.1</b>	<b>391.5</b>
Non Spinnaker	<b>793.0</b>	<b>638.9</b>	<b>555.9</b>	<b>507.1</b>	<b>476.0</b>	<b>454.6</b>	<b>425.4</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</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>42.2°</b>	<b>40.8°</b>	<b>38.5°</b>	<b>37.3°</b>	<b>37.1°</b>	<b>36.3°</b>	<b>36.6°</b>
Beat VMG	<b>4.10</b>	<b>4.98</b>	<b>5.49</b>	<b>5.69</b>	<b>5.79</b>	<b>5.92</b>	<b>5.98</b>
52°	<b>6.22</b>	<b>7.36</b>	<b>7.78</b>	<b>7.94</b>	<b>8.03</b>	<b>8.10</b>	<b>8.25</b>
60°	<b>6.58</b>	<b>7.59</b>	<b>7.98</b>	<b>8.17</b>	<b>8.28</b>	<b>8.35</b>	<b>8.59</b>
75°	<b>6.89</b>	<b>7.76</b>	<b>8.18</b>	<b>8.53</b>	<b>8.76</b>	<b>8.91</b>	<b>9.11</b>
90°	<b>6.84</b>	<b>7.76</b>	<b>8.21</b>	<b>8.67</b>	<b>9.11</b>	<b>9.46</b>	<b>9.84</b>
110°	<b>6.71</b>	<b>7.85</b>	<b>8.37</b>	<b>8.72</b>	<b>9.10</b>	<b>9.46</b>	<b>10.48</b>
120°	<b>6.56</b>	<b>7.79</b>	<b>8.42</b>	<b>9.02</b>	<b>9.45</b>	<b>9.79</b>	<b>10.81</b>
135°	<b>5.94</b>	<b>7.36</b>	<b>8.10</b>	<b>8.75</b>	<b>9.51</b>	<b>10.38</b>	<b>11.85</b>
150°	<b>5.01</b>	<b>6.29</b>	<b>7.36</b>	<b>8.07</b>	<b>8.65</b>	<b>9.33</b>	<b>11.07</b>
Run VMG	<b>4.34</b>	<b>5.44</b>	<b>6.37</b>	<b>7.10</b>	<b>7.68</b>	<b>8.22</b>	<b>9.58</b>
Gybe Angles	<b>143.6°</b>	<b>143.8°</b>	<b>149.7°</b>	<b>156.7°</b>	<b>171.2°</b>	<b>180.0°</b>	<b>147.9°</b>

**Class Division Length**  
CDL = **11.284**

**Storm Sails Areas**  
Heavy Weather Jib **35.63**  
Storm Jib (JL=10.56) **13.20**  
Storm Trysail **16.54**

**Owner**

<b>BOAT</b>			
Name	<b>Setsail</b>	Sail Nr	<b>ROU-69</b>
File	<b>ROU69</b>	Data in	<b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>06/09/2019</b>			SG <b>1.0070</b>		
FFM	<b>1.301</b>	FF	<b>1.307</b>	SFFP	<b>0.152</b>
FAM	<b>0.990</b>	FA	<b>0.996</b>	SAFP	<b>11.954</b>
W1	<b>95.0</b>	PD1	<b>541.5</b>	WD	<b>12.350</b>
W2	<b>95.0</b>	PD2	<b>533.8</b>	GSA	<b>1.0</b>
W3	<b>95.0</b>	PD3	<b>534.4</b>	RSA	<b>1.0</b>
W4	<b>95.0</b>	PD4	<b>517.5</b>	PLM	<b>9000.0</b>
LCF from stem on CL / on sheer				<b>6.888 / 7.143</b>	
Maximum beam station from stem				<b>8.199</b>	
RM Measured				<b>173.8kg-m</b>	
RM Default				<b>173.7kg-m</b>	
Limit of positive stability / Stab.Index				<b>125.9° / 123.3</b>	
Freeboard at mast at 4.687				<b>1.169</b>	



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<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	<b>No</b>	Jib Furler		<b>No</b>	
Fiber Rigging	<b>No</b>	Main Furler		<b>No</b>	
Lenticular Rigging	<b>No</b>	Without Backstay		<b>No</b>	
Articulated Bowsprit	<b>No</b>				
P	<b>16.150</b>	E	<b>5.850</b>	MDT1	<b>0.124</b>
IG	<b>16.216</b>	J	<b>4.687</b>	MDL1	<b>0.242</b>
ISP	<b>18.308</b>	SFJ	<b>0.000</b>	MDT2	<b>0.093</b>
BAS	<b>1.741</b>	SPL	<b>5.200</b>	MDL2	<b>0.106</b>
FSP	<b>0.068</b>	TPS		MWT	<b>185.00</b>
				TL	<b>1.700</b>
				MW	<b>0.242</b>
				GO	<b>0.250</b>
				BD	<b>0.225</b>
				MCG	<b>5.780</b>

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

<b>PROPELLER</b>			
Installation	<b>Strut</b>	PRD	<b>0.420</b>
Type	<b>Folding 2 blades</b>	PBW	<b>0.120</b>
Twin Screw	<b>No</b>	PIPA	<b>0.0036</b>
ST1	<b>0.042</b>	ST3	<b>0.180</b>
ST2	<b>0.180</b>	ST4	<b>0.112</b>
		ST5	<b>0.278</b>
		EDL	<b>0.715</b>

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
<b>N/A</b>	



<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.330	1.53	2.63	4.18	5.16	60.91	62.87	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	161.54		SL · (SFL + 4·SHW) / 6	
	18.50	18.50	18.50	10.50	10.39				
<b>Asymmetric</b>									
Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.10	0.68	1.30	2.48	3.66	4.84	16.14	39.86	Y	N	14/05/2018	Carbon	north 2017
0.10	0.69	1.30	2.45	3.64	4.84	16.10	39.60	Y	N	14/05/2018	Carbon	north 2017
0.08	0.65	1.26	2.46	3.66	4.88	16.02	39.42	N	N		Nylon	windseeker 2019-Onesails
0.11	0.65	1.23	2.40	3.61	4.81	16.01	38.76	Y	N	14/05/2018	Carbon	onesails 2019

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date	<b>06/09/2019</b>			
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
E	Engine	YANMAR	3GM30	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

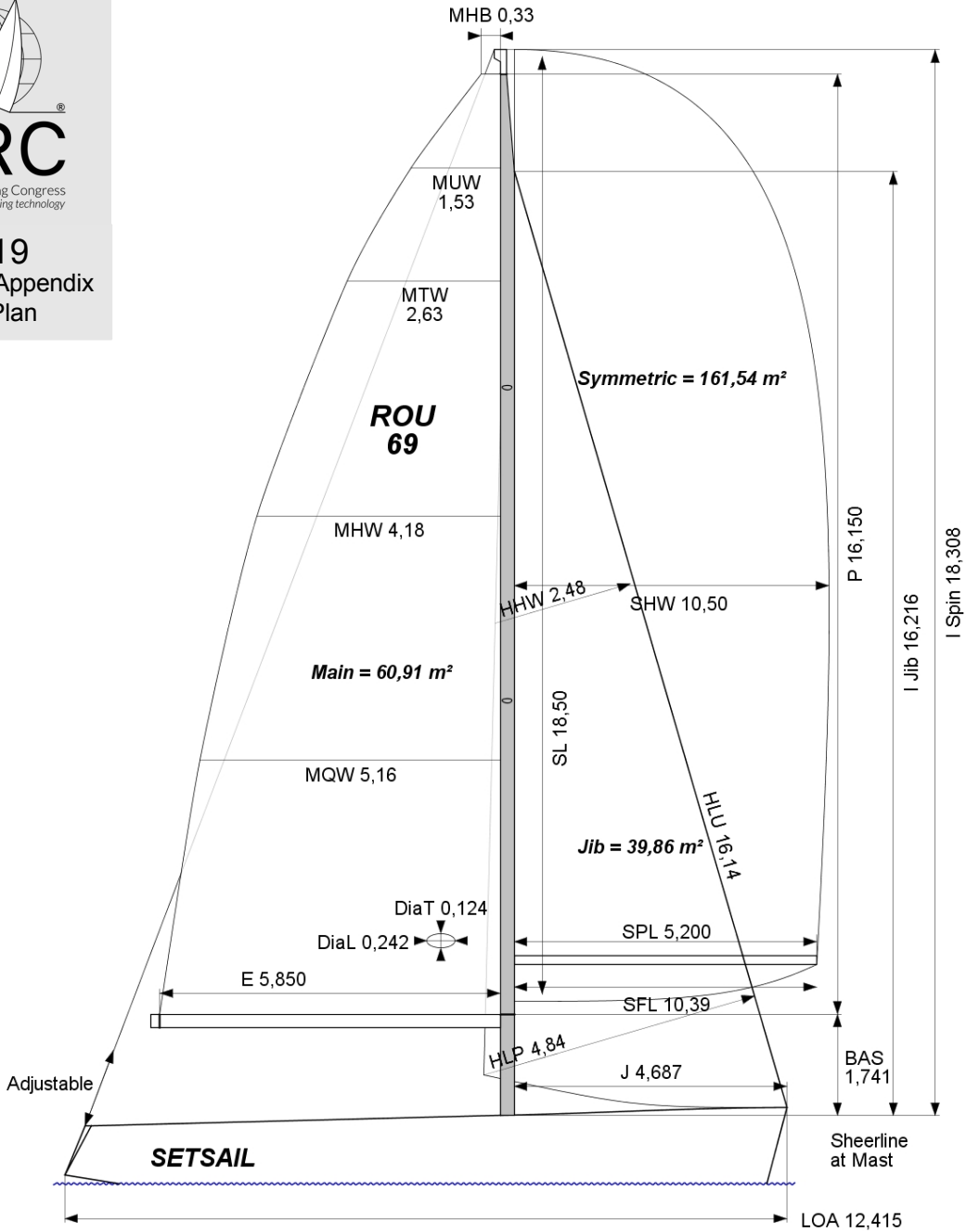
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
T	Tank	DIESEL	ALUMINIUM	70.0	8.70		20.0 Lt
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
L1	Ballast	60.0	5.20				
L4	Ballast	125.0	5.95				
L2	Ballast	80.0	5.65				
L3	Ballast	100.0	9.05				
B	Battery	40.0	6.80				



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**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
mica	0.33	1.53	2.63	4.18	5.16	60.91		18/07/2018	one	Carbon	2019 - One Sails -

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
light	0.10	0.68	1.30	2.48	3.66	4.84	16.14	103%	39.86	Y	N		14/05/2018	north	Carbon	north 2017
mediu	0.10	0.69	1.30	2.45	3.64	4.84	16.10	103%	39.60	Y	N		14/05/2018	north	Carbon	north 2017
wsk	0.08	0.65	1.26	2.46	3.66	4.88	16.02	104%	39.42	N	N				Nylon	windseeker 2019-
heavy	0.11	0.65	1.23	2.40	3.61	4.81	16.01	103%	38.76	Y	N		14/05/2018	quantum	Carbon	onesails 2019

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2-	18.50	18.50	18.50	10.50	10.39	161.54		21/12/2016	North Sails	Nylon	2017- north - S2
S1-	18.31	18.36	18.34	10.30	9.66	155.42		15/11/2016	North Sails	Nylon	2019- onesails S1.5
S1..	18.33	18.35	18.34	9.91	9.84	151.25		14/05/2018	north	Nylon	2017- north - S1
romania	17.84	17.84	17.84	9.37	9.20	138.80				Nylon	2018 - onesails -Romania

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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