

<b>BOAT</b> Name <b>ADELE</b> Sail Nr <b>EST 467</b>	<b>GPH</b> <b>642.5</b>	<b>HULL</b> Length Overall <b>9.980m</b> Maximum Beam <b>3.372m</b> Displacement <b>4,470kg</b> Draft <b>1.991m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.203%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>First 34.7</b> Designer <b>Farr</b> Builder <b>Beneteau</b> Series <b>10/2005</b> Age <b>05/2007</b> Age Allowance <b>0.455%</b> Offset File <b>F235.OFF - 7/27/2006 4:07:34 PM</b> Measurement by <b>A.Tetsmann - 25/07/2019</b>		IMSL <b>9.067m</b> VCGD <b>-0.056m</b> Sink <b>16.29kg/mm</b> RL <b>8.133m</b> VCGM <b>-0.032m</b> WS <b>21.88m<sup>2</sup></b> LSMO <b>8.913m</b> Displacement/Length ratio <b>6.3130</b>



**2019**  
ORC International  
Certificate

**Rating Office**  
EYU  
Purje 8  
11911, Tallinn  
Estonia

<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>623.6</b>			<b>694.8</b>		
Time on Time	<b>0.9622</b>			<b>0.9715</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>739.4</b>	<b>568.0</b>	<b>505.8</b>	<b>956.4</b>	<b>697.7</b>	<b>604.8</b>
Time on Time	<b>0.9129</b>	<b>1.1883</b>	<b>1.3346</b>	<b>0.7058</b>	<b>0.9675</b>	<b>1.1160</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1102.1</b>	<b>913.7</b>	<b>801.4</b>	<b>740.4</b>	<b>720.4</b>	<b>713.3</b>	<b>706.4</b>
52°	<b>717.7</b>	<b>604.1</b>	<b>545.6</b>	<b>520.1</b>	<b>509.4</b>	<b>505.5</b>	<b>502.7</b>
60°	<b>677.3</b>	<b>574.0</b>	<b>529.5</b>	<b>508.1</b>	<b>496.1</b>	<b>490.9</b>	<b>488.3</b>
75°	<b>649.0</b>	<b>553.7</b>	<b>517.5</b>	<b>497.6</b>	<b>481.7</b>	<b>469.2</b>	<b>458.8</b>
90°	<b>656.0</b>	<b>548.4</b>	<b>507.1</b>	<b>489.6</b>	<b>477.4</b>	<b>460.4</b>	<b>433.5</b>
110°	<b>647.6</b>	<b>538.6</b>	<b>499.2</b>	<b>473.0</b>	<b>449.5</b>	<b>434.8</b>	<b>415.5</b>
120°	<b>666.0</b>	<b>549.7</b>	<b>504.4</b>	<b>477.0</b>	<b>450.4</b>	<b>426.1</b>	<b>393.7</b>
135°	<b>734.3</b>	<b>596.9</b>	<b>526.1</b>	<b>494.7</b>	<b>468.9</b>	<b>443.2</b>	<b>394.9</b>
150°	<b>872.7</b>	<b>694.1</b>	<b>585.0</b>	<b>524.3</b>	<b>495.4</b>	<b>471.6</b>	<b>425.1</b>
Run VMG	<b>1007.8</b>	<b>801.5</b>	<b>675.4</b>	<b>594.5</b>	<b>540.2</b>	<b>506.1</b>	<b>459.6</b>

**Certificate**  
Number **EST467**  
ORC Ref **EST00000814**  
Issued On **7/30/2019**  
VPP Ver. **2019 1.01**  
Valid until **12/31/2019**

**Crew Weight**  
Default **584kg**  
Maximum **723kg**  
Minimum\* **542kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>654.5</b>	<b>0.9168</b>
Double H.OSN	<b>637.6</b>	<b>0.9411</b>
Non Spin GPH	<b>678.9</b>	<b>0.8838</b>
Non Spin OSN	<b>656.9</b>	<b>0.9134</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1055.0</b>	<b>857.6</b>	<b>738.4</b>	<b>667.5</b>	<b>630.3</b>	<b>609.7</b>	<b>583.0</b>
Circular Random	<b>886.9</b>	<b>715.3</b>	<b>623.1</b>	<b>569.6</b>	<b>536.9</b>	<b>515.6</b>	<b>488.3</b>
Coastal / Long Distance	<b>1050.2</b>	<b>804.4</b>	<b>666.2</b>	<b>586.7</b>	<b>547.2</b>	<b>516.5</b>	<b>466.3</b>
Non Spinnaker	<b>951.8</b>	<b>761.3</b>	<b>657.5</b>	<b>596.5</b>	<b>558.9</b>	<b>534.7</b>	<b>505.2</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>3</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>43.0°</b>	<b>41.5°</b>	<b>41.2°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>38.9°</b>	<b>38.9°</b>
Beat VMG	<b>3.27</b>	<b>3.94</b>	<b>4.49</b>	<b>4.86</b>	<b>5.00</b>	<b>5.05</b>	<b>5.10</b>
52°	<b>5.02</b>	<b>5.96</b>	<b>6.60</b>	<b>6.92</b>	<b>7.07</b>	<b>7.12</b>	<b>7.16</b>
60°	<b>5.32</b>	<b>6.27</b>	<b>6.80</b>	<b>7.09</b>	<b>7.26</b>	<b>7.33</b>	<b>7.37</b>
75°	<b>5.55</b>	<b>6.50</b>	<b>6.96</b>	<b>7.24</b>	<b>7.47</b>	<b>7.67</b>	<b>7.85</b>
90°	<b>5.49</b>	<b>6.56</b>	<b>7.10</b>	<b>7.35</b>	<b>7.54</b>	<b>7.82</b>	<b>8.30</b>
110°	<b>5.56</b>	<b>6.68</b>	<b>7.21</b>	<b>7.61</b>	<b>8.01</b>	<b>8.28</b>	<b>8.66</b>
120°	<b>5.41</b>	<b>6.55</b>	<b>7.14</b>	<b>7.55</b>	<b>7.99</b>	<b>8.45</b>	<b>9.14</b>
135°	<b>4.90</b>	<b>6.03</b>	<b>6.84</b>	<b>7.28</b>	<b>7.68</b>	<b>8.12</b>	<b>9.12</b>
150°	<b>4.12</b>	<b>5.19</b>	<b>6.15</b>	<b>6.87</b>	<b>7.27</b>	<b>7.63</b>	<b>8.47</b>
Run VMG	<b>3.57</b>	<b>4.49</b>	<b>5.33</b>	<b>6.06</b>	<b>6.66</b>	<b>7.11</b>	<b>7.83</b>
Gybe Angles	<b>145.4°</b>	<b>149.7°</b>	<b>150.2°</b>	<b>158.1°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **8.601**

**Storm Sails Areas**

Heavy Weather Jib	<b>23.85</b>
Storm Jib (JL=8.64)	<b>8.84</b>
Storm Trysail	<b>9.69</b>

**Owner**  
FORDEWIND OÜ  
Tuha 3  
Tallinn, Estonia  
JK Baltsail

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

<b>BOAT</b>	
Name <b>ADELE</b>	Sail Nr <b>EST 467</b>
File <b>Est0467</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>10/07/2019</b>		SG <b>1.0000</b>	
FFM <b>1.303</b>	FF <b>1.310</b>	SFFP <b>0.172</b>	
FAM <b>1.041</b>	FA <b>1.050</b>	SAFP <b>9.530</b>	
W1 <b>65.1</b>	PD1 <b>565.8</b>	WD <b>10.550</b>	
W2 <b>65.1</b>	PD2 <b>565.3</b>	GSA <b>1.0</b>	
W3 <b>65.1</b>	PD3 <b>564.5</b>	RSA <b>1.0</b>	
W4 <b>65.1</b>	PD4 <b>565.5</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>5.376 / 5.611</b>	
Maximum beam station from stem		<b>6.642</b>	
RM Measured		<b>95.7kg·m</b>	
RM Default		<b>97.1kg·m</b>	
Limit of positive stability / Stab.Index		<b>124.9° / 124.0</b>	
Freeboard at mast at 3.640		<b>1.174</b>	



**2019**  
IMS Measurement  
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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>No</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>12.300</b>	E <b>4.500</b>	MDT1 <b>0.117</b>	MW <b>0.170</b>
IG <b>13.210</b>	J <b>3.640</b>	MDL1 <b>0.170</b>	GO <b>0.192</b>
ISP <b>13.240</b>	SFJ <b>0.000</b>	MDT2 <b>0.117</b>	BD
BAS <b>1.540</b>	SPL <b>3.700</b>	MDL2 <b>0.135</b>	MWT <b>129.10</b>
FSP <b>0.070</b>	TPS	TL <b>0.475</b>	MCG <b>4.540</b>

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.410</b>		
Type <b>Folding 2 blades</b>	PBW		
Twin Screw <b>No</b>	PIPA <b>0.0036</b>		
ST1 <b>0.120</b>	ST3 <b>0.180</b>	ST5 <b>0.180</b>	
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>1.800</b>	

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.380	1.02	1.69	2.78	3.74	32.73	33.39	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	81.85		SL · (SFL + 4·SHW) / 6	
	13.17	13.17	13.17	7.56	7.05				
Asymmetric	Not Available								

<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
0.13	0.66	1.20	2.13	3.01	3.75	12.97	26.59			08/04/2019	Unknow	
0.11	0.58	1.09	2.07	2.97	3.72	12.90	25.73	Y			Unknow	
0.10	0.49	0.91	1.76	2.66	3.57	12.27	21.96			26/05/2010	Unknow	

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>K.-H. Tagu EST 7</b>				
Date <b>10/07/2019</b>				
Comment <b>Tallinn - Pirirta</b>				
<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>	
1	Engine	Yanmar	3YM20	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

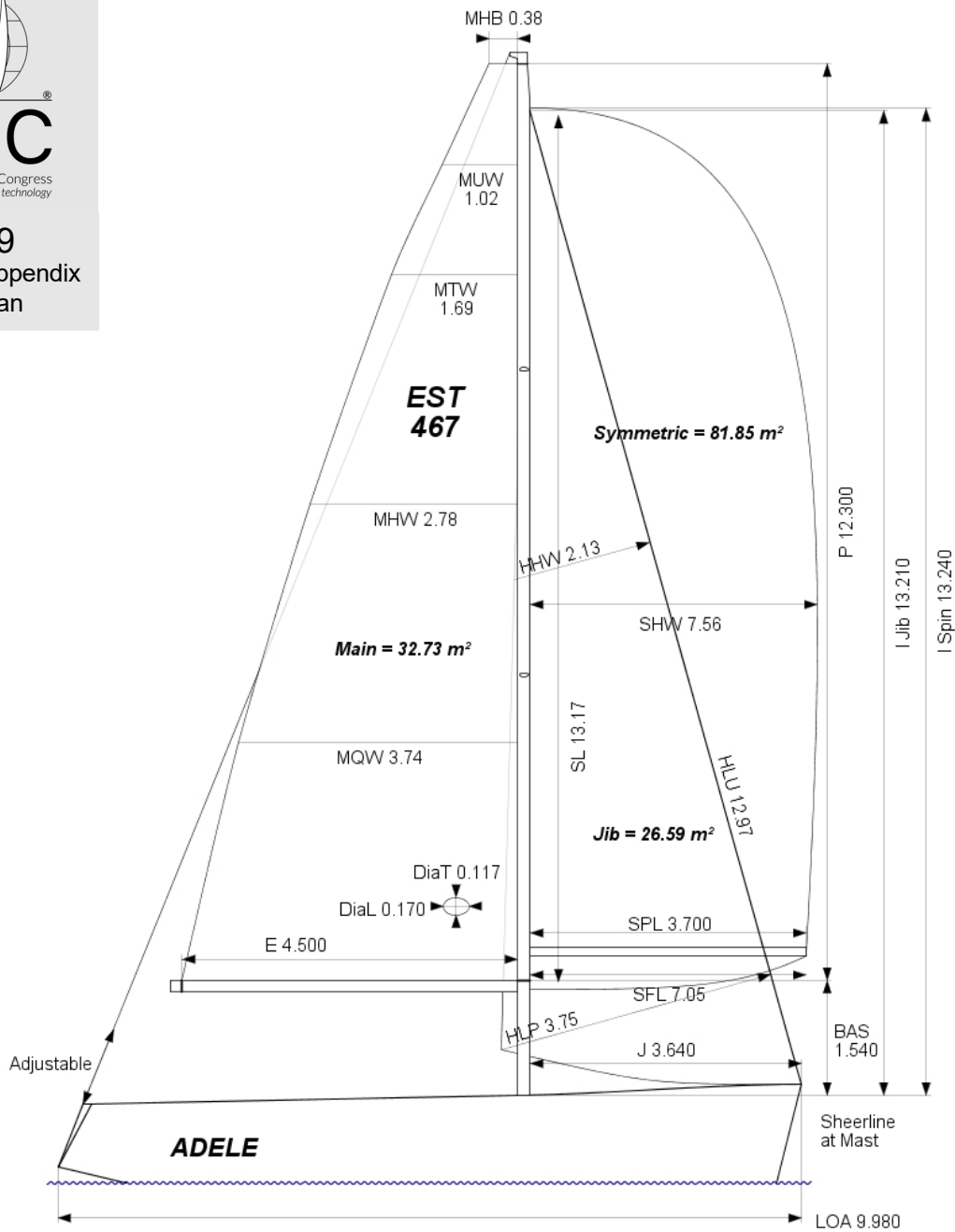
<b>MEASUREMENT INVENTORY</b>							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
1	Tank	Water		100.0	4.00		Water tabk, portside
2	Tank	Fuel		60.0	7.55		20-0 Fuel tank, starboard
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
1	Battery		3.80	Battery Tudor 70Ah, portside			
2	Battery		4.10	Battery Varta 90Ah, portside			
2	Misc		8.15	Shore power 10,0			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
6	0.38	1.02	1.69	2.78	3.74	32.73	SLO 03	08/04/2019		Unknown	P12,30;E4,50

**HEADSAILS (3)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
8	0.13	0.66	1.20	2.13	3.01	3.75	12.97	103%	26.59			SLO 03	08/04/2019		Unknown	Unknown
6	0.11	0.58	1.09	2.07	2.97	3.72	12.90	102%	25.73	Y		EST 1			Unknown	Unknown
4	0.10	0.49	0.91	1.76	2.66	3.57	12.27	98%	21.96			D206	26/05/2010		Unknown	Unknown

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
6a	13.17	13.17	13.17	7.56	7.05	81.86	EST 7	24/04/2018		Unknown	
4	13.10	13.10	13.10	6.82	6.50	73.76	EST 2	27/07/2013		Unknown	
2	12.98	12.98	12.98	6.59	6.34	70.75				Unknown	
3	13.02	13.02	13.02	6.00	6.50	66.19	EST 2	30/07/2012	OneSails	Unknown	S3

**ASYMMETRIC SPINNAKERS (0)**

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