

<b>BOAT</b> Name <b>X-Cite</b> Sail Nr <b>CRO 1553</b>	<b>GPH</b> <b>566.4</b>	<b>HULL</b> Length Overall <b>12.350m</b> Maximum Beam <b>3.646m</b> Displacement <b>6,944kg</b> Draft <b>2.500m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.063%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>X 41</b> Designer <b>Jepessen</b> Builder <b>X Yachts</b> Series <b>01/2006</b> Age <b>07/2007</b> Age Allowance <b>0.422%</b> Offset File <b>X41.od.OFF - 23/02/2015 18:29:08</b> Measurement by - <b>17/03/2014</b>		IMSL <b>11.126m</b> VCGD <b>-0.104m</b> Sink <b>23.16kg/mm</b> RL <b>10.396m</b> VCGM <b>-0.127m</b> WS <b>30.96m<sup>2</sup></b> LSM0 <b>11.030m</b> Displacement/Length ratio <b>5.1747</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>553.2</b>			<b>619.2</b>		
Time on Time	<b>1.0847</b>			<b>1.0901</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>644.4</b>	<b>503.4</b>	<b>449.1</b>	<b>842.5</b>	<b>620.9</b>	<b>540.9</b>
Time on Time	<b>1.0475</b>	<b>1.3410</b>	<b>1.5030</b>	<b>0.8012</b>	<b>1.0871</b>	<b>1.2480</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>955.4</b>	<b>785.4</b>	<b>691.4</b>	<b>654.9</b>	<b>640.9</b>	<b>634.7</b>	<b>619.9</b>
52°	<b>626.7</b>	<b>526.1</b>	<b>480.0</b>	<b>463.9</b>	<b>458.1</b>	<b>455.2</b>	<b>447.7</b>
60°	<b>589.7</b>	<b>498.4</b>	<b>468.3</b>	<b>452.6</b>	<b>445.8</b>	<b>442.2</b>	<b>435.6</b>
75°	<b>532.1</b>	<b>468.8</b>	<b>448.7</b>	<b>438.9</b>	<b>428.4</b>	<b>420.5</b>	<b>413.8</b>
90°	<b>515.6</b>	<b>461.9</b>	<b>438.5</b>	<b>419.9</b>	<b>409.2</b>	<b>401.0</b>	<b>385.9</b>
110°	<b>554.1</b>	<b>483.0</b>	<b>447.3</b>	<b>423.8</b>	<b>399.7</b>	<b>378.8</b>	<b>356.6</b>
120°	<b>596.9</b>	<b>492.6</b>	<b>451.8</b>	<b>424.9</b>	<b>399.1</b>	<b>380.2</b>	<b>342.5</b>
135°	<b>660.7</b>	<b>534.2</b>	<b>471.6</b>	<b>442.3</b>	<b>416.3</b>	<b>390.4</b>	<b>338.2</b>
150°	<b>783.5</b>	<b>627.4</b>	<b>528.9</b>	<b>472.8</b>	<b>445.1</b>	<b>421.1</b>	<b>373.8</b>
Run VMG	<b>904.7</b>	<b>724.4</b>	<b>610.7</b>	<b>539.7</b>	<b>494.2</b>	<b>459.8</b>	<b>413.4</b>

**Certificate**  
Number **039/19**  
ORC Ref **CRO00090384**  
Issued On **24/05/2019**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**  
Default **792kg**  
Maximum **900kg**  
Minimum\* **675kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **605.8 0.9904**  
Non Spin OSN **588.6 1.0194**

Selected Courses							
Windward / Leeward	<b>930.1</b>	<b>754.9</b>	<b>651.0</b>	<b>597.3</b>	<b>567.6</b>	<b>547.2</b>	<b>516.7</b>
Circular Random	<b>774.7</b>	<b>628.0</b>	<b>549.9</b>	<b>504.7</b>	<b>476.7</b>	<b>457.5</b>	<b>430.4</b>
Coastal / Long Distance	<b>927.6</b>	<b>707.9</b>	<b>587.7</b>	<b>522.0</b>	<b>487.8</b>	<b>460.7</b>	<b>412.4</b>
Non Spinnaker	<b>847.7</b>	<b>678.6</b>	<b>586.9</b>	<b>533.0</b>	<b>499.4</b>	<b>476.9</b>	<b>446.6</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>42.7°</b>	<b>41.2°</b>	<b>39.9°</b>	<b>38.2°</b>	<b>38.0°</b>	<b>37.7°</b>	<b>37.6°</b>
Beat VMG	<b>3.77</b>	<b>4.58</b>	<b>5.21</b>	<b>5.50</b>	<b>5.62</b>	<b>5.67</b>	<b>5.81</b>
52°	<b>5.74</b>	<b>6.84</b>	<b>7.50</b>	<b>7.76</b>	<b>7.86</b>	<b>7.91</b>	<b>8.04</b>
60°	<b>6.10</b>	<b>7.22</b>	<b>7.69</b>	<b>7.95</b>	<b>8.07</b>	<b>8.14</b>	<b>8.26</b>
75°	<b>6.77</b>	<b>7.68</b>	<b>8.02</b>	<b>8.20</b>	<b>8.40</b>	<b>8.56</b>	<b>8.70</b>
90°	<b>6.98</b>	<b>7.79</b>	<b>8.21</b>	<b>8.57</b>	<b>8.80</b>	<b>8.98</b>	<b>9.33</b>
110°	<b>6.50</b>	<b>7.45</b>	<b>8.05</b>	<b>8.49</b>	<b>9.01</b>	<b>9.50</b>	<b>10.09</b>
120°	<b>6.03</b>	<b>7.31</b>	<b>7.97</b>	<b>8.47</b>	<b>9.02</b>	<b>9.47</b>	<b>10.51</b>
135°	<b>5.45</b>	<b>6.74</b>	<b>7.63</b>	<b>8.14</b>	<b>8.65</b>	<b>9.22</b>	<b>10.65</b>
150°	<b>4.59</b>	<b>5.74</b>	<b>6.81</b>	<b>7.61</b>	<b>8.09</b>	<b>8.55</b>	<b>9.63</b>
Run VMG	<b>3.98</b>	<b>4.97</b>	<b>5.90</b>	<b>6.67</b>	<b>7.28</b>	<b>7.83</b>	<b>8.71</b>
Gybe Angles	<b>141.9°</b>	<b>147.0°</b>	<b>148.9°</b>	<b>155.7°</b>	<b>169.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **10.761**

**Storm Sails Areas**  
Heavy Weather Jib **39.44**  
Storm Jib (JL=11.11) **14.61**  
Storm Trysail **15.25**

**Owner**

<b>BOAT</b>	
Name <b>X-Cite</b>	Sail Nr <b>CRO 1553</b>
File <b>CRO1553</b>	Data in <b>meters/kilograms</b>

<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>16.040</b>	E <b>5.430</b> MDT1 <b>0.130</b> MW <b>0.240</b>
IG <b>17.005</b>	J <b>4.910</b> MDL1 <b>0.240</b> GO <b>0.265</b>
ISP <b>17.040</b>	SFJ <b>0.280</b> MDT2 <b>0.115</b> BD <b>0.252</b>
BAS <b>1.860</b>	SPL <b>4.890</b> MDL2 <b>0.190</b> MWT <b>209.50</b>
FSP <b>0.080</b>	TPS <b>5.010</b> TL <b>0.870</b> MCG <b>5.735</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>17/05/2019</b>		SG <b>1.0250</b>	
FFM <b>1.453</b>	FF <b>1.455</b>	SFFP <b>0.200</b>	
FAM <b>1.082</b>	FA <b>1.082</b>	SAFP <b>11.995</b>	
W1 <b>120.9</b>	PD1 <b>569.2</b>	WD <b>11.940</b>	
W2 <b>120.9</b>	PD2 <b>566.4</b>	GSA <b>1.0</b>	
W3 <b>120.9</b>	PD3 <b>566.8</b>	RSA <b>1.0</b>	
W4 <b>120.9</b>	PD4 <b>559.0</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.959 / 7.168</b>	
Maximum beam station from stem		<b>8.432</b>	
RM Measured		<b>201.1kg-m</b>	
RM Default		<b>200.4kg-m</b>	
Limit of positive stability / Stab.Index		<b>125.4° / 129.1</b>	
Freeboard at mast at 5.190		<b>1.210</b>	



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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.430</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.125</b>		
Twin Screw <b>No</b>	PIPA <b>0.0040</b>		
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.320</b>	
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>1.890</b>	

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<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.210	1.16	2.03	3.47	4.52	51.57	52.52	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	17.42	17.42	17.42	9.28	9.22	134.54		SL · (SFL + 4·SHW) / 6	
<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>
0.07	1.42	2.77	5.18	6.93	8.17	17.04	79.81		Y	25/06/2017	Spectra	
0.11	0.74	1.41	2.64	3.84	5.03	16.28	42.38	Y		17/05/2019	Carbon	LM
0.11	0.71	1.35	2.57	3.80	5.02	16.25	41.65	Y		17/05/2019	Carbon	MH
0.09	0.54	1.04	2.13	3.34	4.68	16.30	36.40	Y		05/10/2012	Carbon	

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>CRO5</b>				
Date <b>17/05/2019</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>	
1	Engine	VOLVO	D2 - 40	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

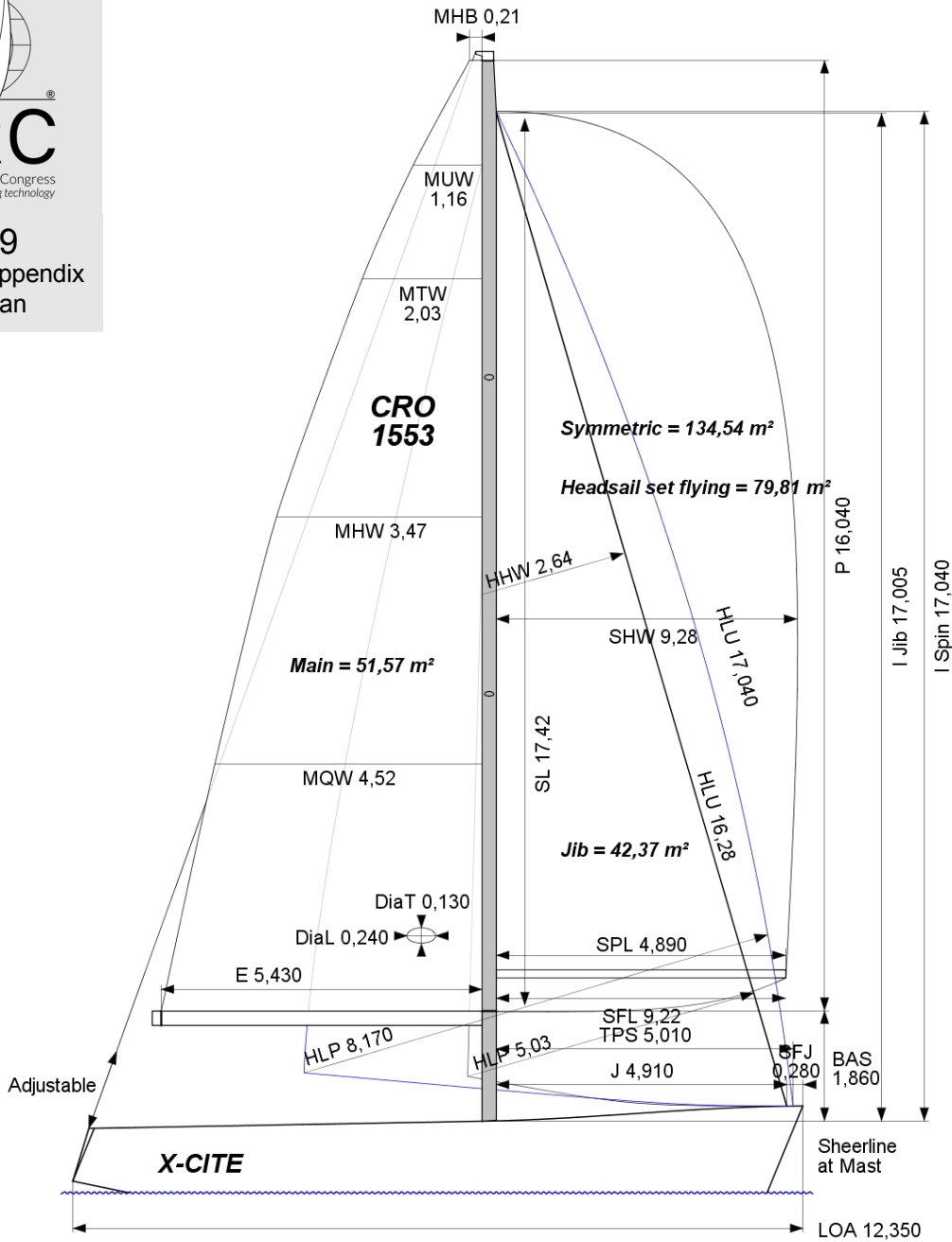
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
2	Tank	Water	PVC fix	150.0	6.00		0-0 port side
1	Tank	Disel	Rigid	120.0	6.00		25-0 starboard side
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
3	Battery	15.0	5.00	Service			
2	Battery	15.0	5.00	Service			
1	Battery	20.0	8.10	Engine			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.21	1.16	2.03	3.47	4.52	51.57		17/05/2019	North sails	Carbon	

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.07	1.42	2.77	5.18	6.93	8.17	17.04	166%	79.81		Y		25/06/2017	North sails	Spectra	
1	0.11	0.74	1.41	2.64	3.84	5.03	16.28	102%	42.38	Y			17/05/2019	North sails	Carbon	LM
2	0.11	0.71	1.35	2.57	3.80	5.02	16.25	102%	41.65	Y			17/05/2019	North sails	Carbon	MH
3	0.09	0.54	1.04	2.13	3.34	4.68	16.30	95%	36.40	Y			05/10/2012	CBS	Carbon	

**SYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	17.42	17.42	17.42	9.28	9.22	134.55		25/06/2017	North sails	Nylon	S 2
2	17.40	17.40	17.40	9.28	9.19	134.30		25/06/2017	North sails	Nylon	S 1.5
1	17.84	17.84	17.84	8.75	8.47	129.26		05/11/2015	North sails	Nylon	0,5 Novi

**ASYMMETRIC SPINNAKERS (0)**

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