

<b>BOAT</b> Name <b>Audi E-Tron</b> Sail Nr <b>FIN-52</b>	<b>GPH</b> <b>476.2</b>	<b>HULL</b> Length Overall <b>15.839m</b> Maximum Beam <b>4.438m</b> Displacement <b>9,599kg</b> Draft <b>3.246m</b> Plan Review IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.000%</b> Hull Construction <b>Carbon</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>Farr 52</b> Designer <b>Farr Bruce</b> Builder <b>Carroill Marine</b> Series <b>01/2000</b> Age <b>02/2003</b> Age Allowance <b>0.487%</b> Offset File <b>US30987B.OFF - 13/01/2000 10:38:00</b> Measurement by - <b>29/07/2020</b>		IMSL <b>14.359m</b> VCGD <b>-0.404m</b> Sink <b>32.77kg/mm</b> RL <b>13.747m</b> VCGM <b>-0.501m</b> WS <b>43.29m<sup>2</sup></b> LSM0 <b>14.060m</b> Displacement/Length ratio <b>3.4536</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>465.8</b>			<b>527.1</b>		
Time on Time	<b>1.2880</b>			<b>1.2805</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>534.9</b>	<b>426.0</b>	<b>376.2</b>	<b>696.1</b>	<b>531.6</b>	<b>463.1</b>
Time on Time	<b>1.2619</b>	<b>1.5845</b>	<b>1.7944</b>	<b>0.9697</b>	<b>1.2697</b>	<b>1.4575</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>773.6</b>	<b>638.9</b>	<b>590.6</b>	<b>569.5</b>	<b>554.6</b>	<b>540.8</b>	<b>534.1</b>
52°	<b>504.1</b>	<b>428.5</b>	<b>408.9</b>	<b>400.5</b>	<b>395.7</b>	<b>388.3</b>	<b>381.7</b>
60°	<b>473.3</b>	<b>412.7</b>	<b>396.0</b>	<b>387.5</b>	<b>381.9</b>	<b>375.4</b>	<b>364.5</b>
75°	<b>449.8</b>	<b>401.3</b>	<b>380.3</b>	<b>366.7</b>	<b>357.9</b>	<b>352.2</b>	<b>337.9</b>
90°	<b>447.9</b>	<b>397.6</b>	<b>376.0</b>	<b>355.0</b>	<b>339.7</b>	<b>330.4</b>	<b>319.4</b>
110°	<b>464.3</b>	<b>402.3</b>	<b>372.1</b>	<b>344.5</b>	<b>323.8</b>	<b>309.6</b>	<b>287.3</b>
120°	<b>493.7</b>	<b>410.3</b>	<b>376.2</b>	<b>350.2</b>	<b>324.8</b>	<b>300.6</b>	<b>267.1</b>
135°	<b>552.2</b>	<b>441.5</b>	<b>396.3</b>	<b>365.4</b>	<b>334.6</b>	<b>304.9</b>	<b>263.2</b>
150°	<b>663.5</b>	<b>524.6</b>	<b>445.6</b>	<b>399.5</b>	<b>375.2</b>	<b>348.4</b>	<b>289.3</b>
Run VMG	<b>766.1</b>	<b>605.7</b>	<b>514.5</b>	<b>463.0</b>	<b>433.3</b>	<b>402.3</b>	<b>334.0</b>

**Certificate**  
Number **00052**  
ORC Ref **03290000NUJ**  
Issued On **04/08/2020**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**  
Default **1,119kg**  
Maximum **1,119kg**  
Minimum\* **839kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**  
ToD ToT  
Non Spin GPH **507.4 1.1825**  
Non Spin OSN **498.3 1.2040**

Selected Courses							
Windward / Leeward	<b>769.9</b>	<b>622.3</b>	<b>552.6</b>	<b>516.3</b>	<b>494.0</b>	<b>471.6</b>	<b>434.1</b>
Circular Random	<b>647.7</b>	<b>526.7</b>	<b>462.9</b>	<b>425.6</b>	<b>401.3</b>	<b>383.5</b>	<b>356.5</b>
Coastal / Long Distance	<b>769.5</b>	<b>585.1</b>	<b>498.2</b>	<b>446.4</b>	<b>415.2</b>	<b>385.4</b>	<b>337.5</b>
Non Spinnaker	<b>702.1</b>	<b>566.1</b>	<b>492.6</b>	<b>448.7</b>	<b>419.9</b>	<b>399.5</b>	<b>371.0</b>

**Sails Limitations**  
Headsails **7** Spinnakers **5**

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>39.4°</b>	<b>38.6°</b>	<b>37.9°</b>	<b>37.3°</b>	<b>37.3°</b>
Beat VMG	<b>4.65</b>	<b>5.63</b>	<b>6.10</b>	<b>6.32</b>	<b>6.49</b>	<b>6.66</b>	<b>6.74</b>
52°	<b>7.14</b>	<b>8.40</b>	<b>8.80</b>	<b>8.99</b>	<b>9.10</b>	<b>9.27</b>	<b>9.43</b>
60°	<b>7.61</b>	<b>8.72</b>	<b>9.09</b>	<b>9.29</b>	<b>9.43</b>	<b>9.59</b>	<b>9.88</b>
75°	<b>8.00</b>	<b>8.97</b>	<b>9.47</b>	<b>9.82</b>	<b>10.06</b>	<b>10.22</b>	<b>10.66</b>
90°	<b>8.04</b>	<b>9.06</b>	<b>9.58</b>	<b>10.14</b>	<b>10.60</b>	<b>10.90</b>	<b>11.27</b>
110°	<b>7.75</b>	<b>8.95</b>	<b>9.68</b>	<b>10.45</b>	<b>11.12</b>	<b>11.63</b>	<b>12.53</b>
120°	<b>7.29</b>	<b>8.77</b>	<b>9.57</b>	<b>10.28</b>	<b>11.08</b>	<b>11.97</b>	<b>13.48</b>
135°	<b>6.52</b>	<b>8.15</b>	<b>9.08</b>	<b>9.85</b>	<b>10.76</b>	<b>11.81</b>	<b>13.68</b>
150°	<b>5.43</b>	<b>6.86</b>	<b>8.08</b>	<b>9.01</b>	<b>9.60</b>	<b>10.33</b>	<b>12.45</b>
Run VMG	<b>4.70</b>	<b>5.94</b>	<b>7.00</b>	<b>7.78</b>	<b>8.31</b>	<b>8.95</b>	<b>10.78</b>
Gybe Angles	<b>141.3°</b>	<b>142.3°</b>	<b>147.5°</b>	<b>152.5°</b>	<b>151.0°</b>	<b>148.5°</b>	<b>144.0°</b>

**Class Division Length**  
CDL = **14.049**

**Storm Sails Areas**  
Heavy Weather Jib **57.12**  
Storm Jib (JL=13.37) **21.16**  
Storm Trysail **27.56**

**Owner**

<b>BOAT</b>	
Name <b>Audi E-Tron</b>	Sail Nr <b>FIN-52</b>
File <b>L-0052</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Fixed</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>21.410</b>	E <b>7.355</b>	MDT1 <b>0.165</b>	MW <b>0.300</b>
IG <b>20.501</b>	J <b>6.120</b>	MDL1 <b>0.300</b>	GO <b>0.320</b>
ISP <b>23.666</b>	SFJ <b>0.000</b>	MDT2 <b>0.122</b>	BD <b>0.295</b>
BAS <b>2.016</b>	SPL	MDL2 <b>0.158</b>	MWT <b>384.50</b>
FSD <b>0.045</b>	TPS <b>6.980</b>	TL <b>2.920</b>	MCG <b>7.134</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>27/04/2017</b>		SG <b>1.0050</b>	
FFM <b>1.464</b>	FF <b>1.470</b>	SFFP <b>0.823</b>	
FAM <b>1.107</b>	FA <b>1.115</b>	SAFP <b>15.469</b>	
W1 <b>153.9</b>	PD1 <b>511.3</b>	WD <b>16.735</b>	
W2 <b>153.9</b>	PD2 <b>514.1</b>	GSA <b>1.0</b>	
W3 <b>153.9</b>	PD3 <b>516.4</b>	RSA <b>1.0</b>	
W4 <b>153.9</b>	PD4 <b>514.2</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>8.789 / 9.049</b>	
Maximum beam station from stem		<b>10.055</b>	
RM Measured		<b>394.6kg-m</b>	
RM Default		<b>391.7kg-m</b>	
Limit of positive stability / Stab.Index		<b>131.8° / 134.1</b>	
Freeboard at mast at 6.120		<b>1.297</b>	



**2020**  
IMS Measurement  
Certificate

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.520</b>		
Type <b>Folding 3 blades</b>	PBW <b>0.130</b>		
Twin Screw <b>No</b>	PIPA <b>0.0039</b>		
ST1 <b>0.042</b>	ST3 <b>0.180</b>	ST5 <b>0.260</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b>	EDL <b>2.300</b>	

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<b>COMMENTS</b>	
ADVERTISING LICENSE 2020 BY FSBF	

<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	
	1.63	2.50	3.53	5.14	6.35	104.23	107.09	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		
	24.15	21.75	22.95	12.21	11.72	231.64	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)												
<b>HBB</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>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.15	1.03	1.77	3.22	4.72	6.24	19.96	64.35	Y	No	04/06/2019	Unknow	
0.14	1.02	1.78	3.22	4.74	6.25	19.90	64.27	Y	No	04/06/2019	Unknow	
0.14	1.01	1.78	3.19	4.73	6.25	19.92	64.14	Y	No	04/06/2019	Unknow	
0.15	1.01	1.77	3.18	4.72	6.22	19.87	63.77	Y	No	04/06/2019	Unknow	
0.14	0.99	1.77	3.19	4.69	6.25	19.72	63.24	Y	No	04/06/2019	Unknow	
0.10	1.10	1.78	3.18	4.73	6.26	19.29	62.25	Y	No	04/06/2019	Unknow	

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>27/05/2017</b>				
Comment <b>Good conditions</b>				
Internal Ballast total = <b>0.0</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
1	Engine	Yanmar	YA 5411x43	
<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</b>	<b>Description</b>	
1	Tank Fuel		Steel	175.0	11.22		40.0	Less than 1/4	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>					
1	Battery		8.92	Start 80 Ah					
2	Battery		8.22	2 x 150 Ah SB + Port					
1	Misc		15.22	Safire heater					

