

**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number  
Issued On **05/06/2019**  
ORC Ref **DEN00000559**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default 725kg  
Maximum **725kg**  
Minimum\* **544kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>612.8</b>	<b>0.9791</b>
Double H.OSN	<b>597.3</b>	<b>1.0046</b>
Non Spin GPH	<b>636.9</b>	<b>0.9421</b>
Non Spin OSN	<b>619.2</b>	<b>0.9689</b>

**Sails Limitations**

Headsails **6** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 115.81**  
Flying H/S: **No**  
Spin. Pole: **No**

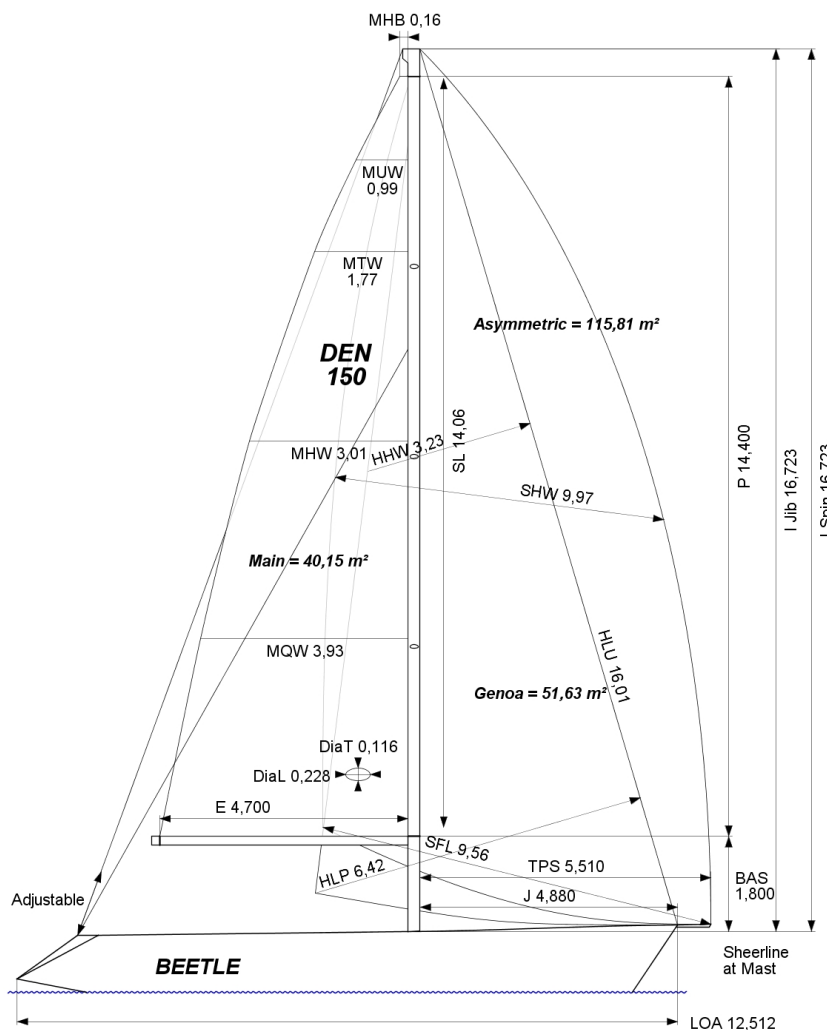
**Class Division Length**

**CDL = 9.887**

**Stability (Estimated)**

Limit Positive Stab.: **118.5°**  
Stability Index: **121.3**

**Owner**



BOAT		GPH		HULL			
Name <b>Beetle</b> Sail Nr <b>DEN 150</b>		<b>606.7</b>		Data File <b>X-412 - DEN 150</b>	LOA <b>12.512m</b>		
				Offset File <b>D0006.BOF</b>	MB <b>3.916m</b>		
				Displacement <b>7,967kg</b>	Draft <b>2.240m</b>		
				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.095%</b>		
				Fwd Accom. <b>Yes</b>	Construction <b>Cored</b>		
				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
				Crew Arm Ex	Carbon Rudder <b>No</b>		
					Light Stanchions <b>No</b>		
				IMSL <b>10.277m</b>	VCGD <b>-0.158m</b>	Sink <b>22.02kg/mm</b>	
				RL <b>9.496m</b>	VCGM <b>-0.033m</b>	WS <b>30.35m²</b>	
				LSM0 <b>10.372m</b>	Displacement/Length ratio <b>7.1401</b>		
				Water Ballast <b>0</b>	Trim Tab <b>No</b>		
				BLR Index <b>0.0000</b>			
<b>CLASS</b>							
Class <b>X-412 MK2</b>							
Designer <b>Niels Jeppesen</b>							
Builder <b>X-Yachts</b>							
Series <b>07/1990</b>							
Age Date <b>01/2000</b>							
Age Allowance <b>0.487%</b>							
<b>COMMENTS</b>							
<b>PROPELLER</b>							
Installation <b>Strut</b>		PRD <b>0.430</b>					
Type <b>Folding 3 blades</b>		PIPA <b>0.0007</b>					
<b>CENTERBOARD</b>							
		<b>N/A</b>					
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time on Distance	<b>590.4</b>			<b>660.9</b>			
Time on Time	<b>1.0163</b>			<b>1.0213</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>691.8</b>	<b>538.1</b>	<b>484.3</b>	<b>891.6</b>	<b>664.8</b>	<b>582.4</b>	
Time on Time	<b>0.9757</b>	<b>1.2543</b>	<b>1.3938</b>	<b>0.7571</b>	<b>1.0153</b>	<b>1.1589</b>	