



**2019
ORC Club
Certificate**

Rating Office

Offshore
Racing
Congress

**Invalid for
Rating**

ORC
World Leader In Rating Technology

Certificate

Number **01239S**
 Issued On **20/03/2019**
 ORC Ref **GRE01015246**
 VPP Ver. **2019 1.01**
 Valid until **28/02/2020**

Crew Weight

Default 883kg
 Maximum **800kg**
 Minimum* **600kg**
*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	657.4	0.9127
Non Spin OSN	635.0	0.9449

Sails Limitations

Headsails **1** Spinnakers **4**
Dacron Sails

Spinnaker configuration
 Symmetric: **Yes** **132.36**
 Asymmetric: **Yes** **128.12**
 Flying H/S: **No**
 Spin. Pole: **Yes**

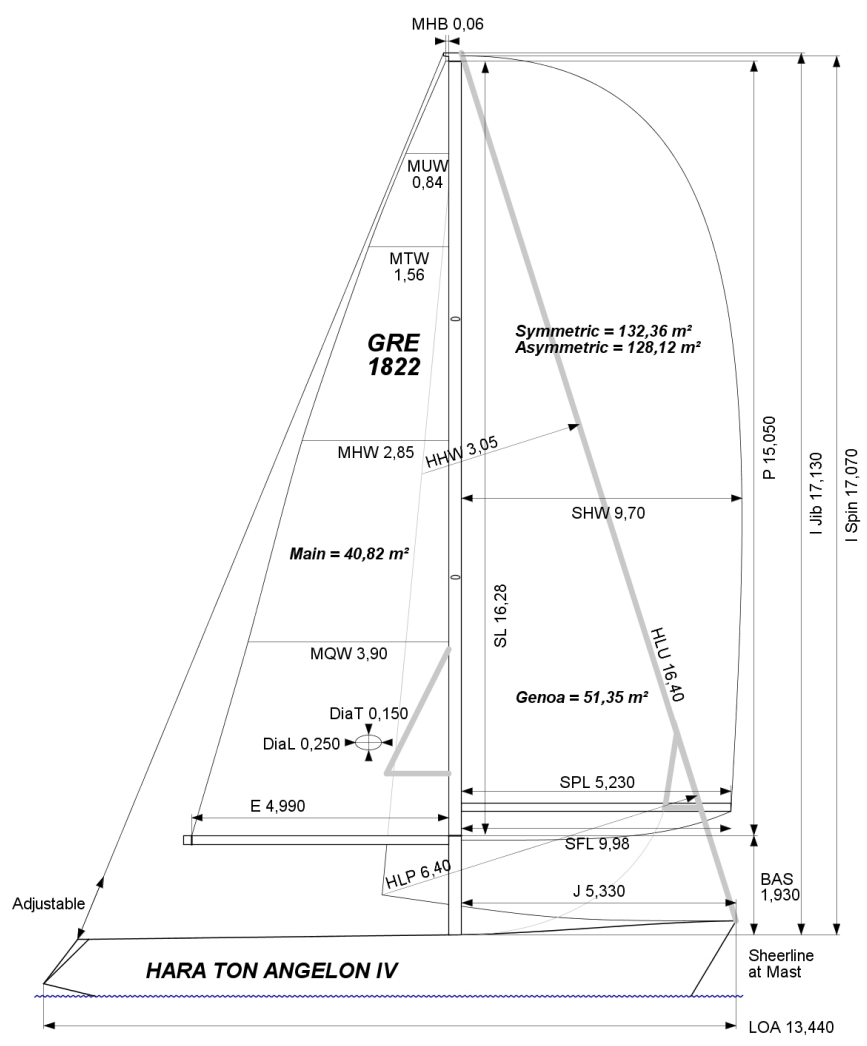
Class Division Length

CDL = 10.185

Stability (Estimated)

Limit Positive Stab.: **108.8°**
 Stability Index: **114.4**

Owner



BOAT		GPH		HULL					
Name HARA TON ANGELON IV Sail Nr GRE-1822		618.1		Data File GR1822	LOA 13.440m				
				Offset File ELAN45.OFF	MB 4.156m				
				Displacement 10,650kg	Draft 2.084m				
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.347%				
Class ELAN 45				Fwd Accom. Yes	Construction Solid				
Designer HUMPHREYS				Fiber Rigging No	Aramid Core No				
Builder ELAN YACHTS				Crew Arm Ex	Carbon Rudder No				
Series 01/2001				Light Stanchions No					
Age Date				IMSL 11.818m	VCGD 0.060m	Sink 28.33kg/mm			
Age Allowance 0.487%				RL 8.551m	VCGM 0.129m	WS 38.20m²			
COMMENTS				LSMO 11.908m	Displacement/Length ratio 6.3071				
Builder's displacement.				Water Ballast 0	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Strut	PRD 0.500			N/A					
Type Feathering 3 blades	PBW 0.165								
	PIPA 0.0039								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD				
Time on Distance	597.9				670.7				
Time on Time	1.0035				1.0064				
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	731.2	541.9	471.7	952.9	679.1	568.0			
Time on Time	0.9232	1.2456	1.4309	0.7084	0.9940	1.1883			