



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **011/20**
Issued On **01/10/2020**
ORC Ref **02920000RAI**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 646kg
Maximum **646kg**
Minimum* **485kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	664.8	0.9025
Non Spin OSN	642.1	0.9344

Sails Limitations

Headsails **5** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 109.06**
Flying H/S: **No**
Spin. Pole: **No**

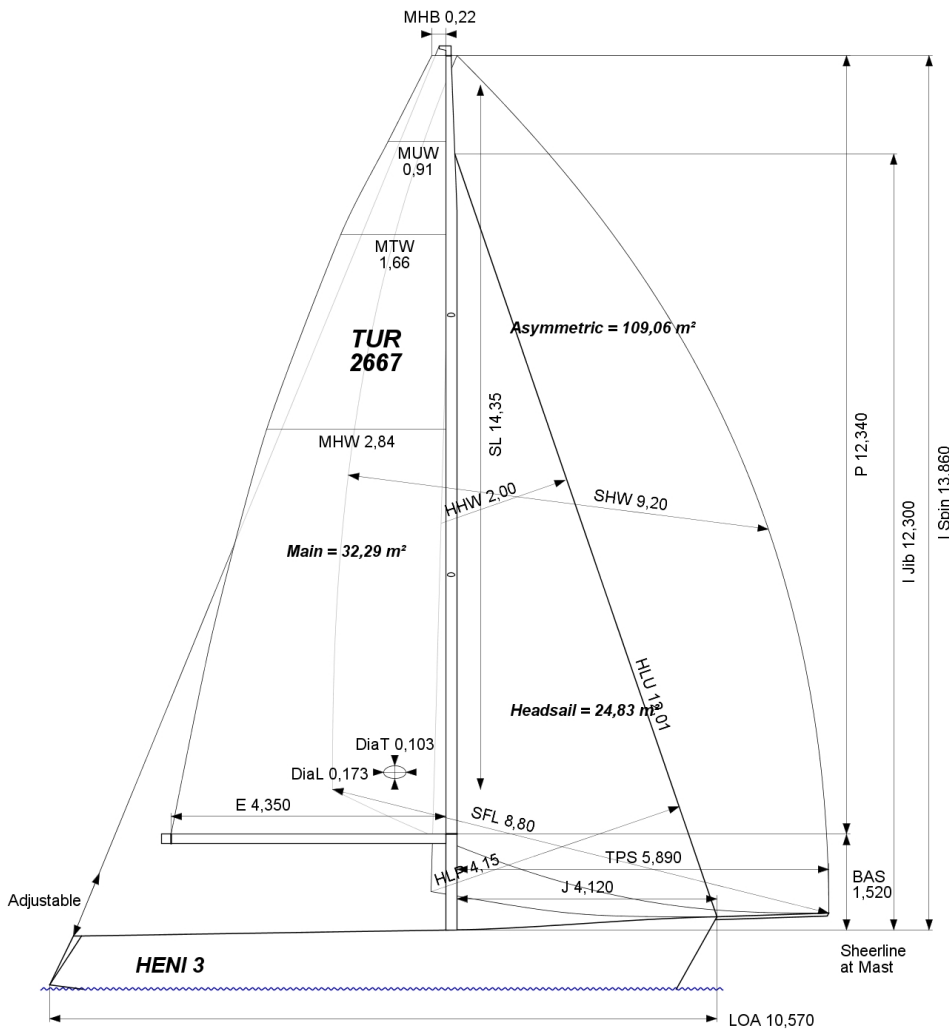
Class Division Length

CDL = 9.239

Stability (Estimated)

Limit Positive Stab.: **107.3°**
Stability Index: **104.2**

Owner



BOAT	GPH	HULL
Name HENI 3 Sail Nr TUR-2667	616.1	Data File TUR2667 LOA 10.570m Offset File H204.OFF MB 3.346m Displacement 3,759kg Draft 1.994m
CLASS Class J 105 Designer Johnstone Builder J Europe Series 01/1991 Age Date 01/2000 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.183% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.647m VCGD 0.057m Sink 16.91kg/mm RL 8.829m VCGM 0.050m WS 22.46m² LSM0 9.565m Displacement/Length ratio 4.2955
PROPELLER Installation Shaft exposed PRD 0.350 Type Folding 2 blades PIPA 0.0012		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	597.6	671.4
Time on Time	1.0041	1.0054
Triple Number	Low Medium High	Low Medium High
Time on Distance	707.0 545.5 483.6	915.8 673.0 588.8
Time on Time	0.9547 1.2373 1.3959	0.7371 1.0029 1.1464

2020

ORC Club Certificate Appendix

BOAT	
Name HENI 3	Certificate Number 011/20
Sail Nr TUR-2667	Issued On 01/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1078.9	882.5	770.1	710.6	691.2	683.1	671.1
52°	702.6	586.9	529.1	505.6	496.1	491.6	486.6
60°	662.9	558.9	514.4	493.8	481.9	476.1	471.9
75°	636.0	540.1	503.4	482.3	464.3	450.2	438.3
90°	616.5	520.0	493.2	479.5	459.3	438.3	408.6
110°	603.0	509.6	474.3	447.4	430.2	416.0	387.3
120°	618.2	516.1	477.2	443.4	414.4	394.2	363.1
135°	694.0	556.2	497.1	464.2	429.9	396.4	332.2
150°	820.6	653.0	551.9	501.7	477.7	454.2	387.1
Run VMG	947.6	754.0	637.3	578.9	551.5	510.6	447.0
Selected Courses							
Windward / Leeward	1013.2	818.3	703.7	644.8	621.4	596.9	559.1
Circular Random	849.8	685.4	597.7	546.8	515.0	492.8	459.9
Coastal / Long Distance	1006.7	767.0	636.1	563.8	527.6	495.6	441.0
Non Spinnaker	941.5	749.0	643.4	580.6	541.2	515.0	481.0

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	42.8°	41.3°	40.5°	38.3°	37.5°	37.1°	37.1°
Beat VMG	3.34	4.08	4.67	5.07	5.21	5.27	5.36
52°	5.12	6.13	6.80	7.12	7.26	7.32	7.40
60°	5.43	6.44	7.00	7.29	7.47	7.56	7.63
75°	5.66	6.67	7.15	7.46	7.75	8.00	8.21
90°	5.84	6.92	7.30	7.51	7.84	8.21	8.81
110°	5.97	7.06	7.59	8.05	8.37	8.65	9.30
120°	5.82	6.98	7.54	8.12	8.69	9.13	9.91
135°	5.19	6.47	7.24	7.76	8.37	9.08	10.84
150°	4.39	5.51	6.52	7.18	7.54	7.93	9.30
Run VMG	3.80	4.77	5.65	6.22	6.53	7.05	8.05
Gybe Angles	144.0°	147.5°	148.3°	150.8°	150.0°	176.5°	142.3°