



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **073/20**
Issued On **30/09/2020**
ORC Ref **02920000R66**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 648kg
Maximum **640kg**
Minimum* **480kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	669.6	0.8961
Non Spin OSN	648.5	0.9253

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **84.84**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

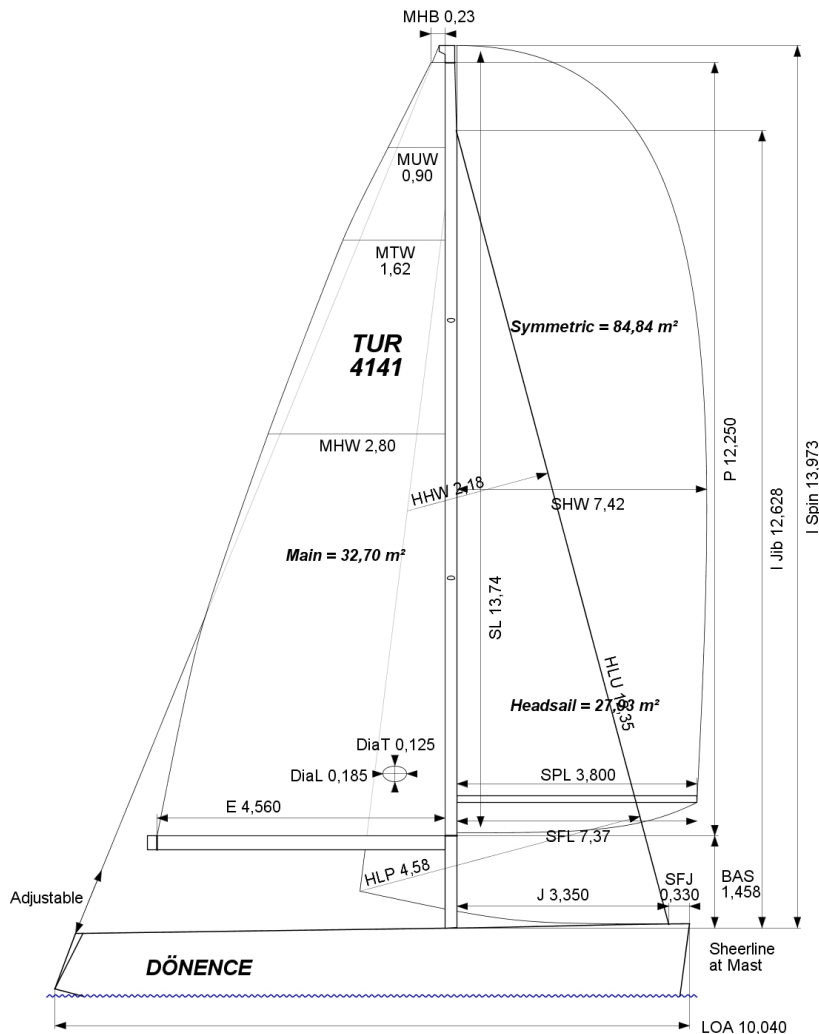
Class Division Length

CDL = 8.961

Stability (Estimated)

Limit Positive Stab.: **122.8°**
Stability Index: **124.6**

Owner



BOAT	GPH	HULL
Name Dönence Sail Nr TUR-4141	632.4	Data File tur4141 LOA 10.040m Offset File MAT10.off MB 3.142m Displacement 4,372kg Draft 2.047m
CLASS Class MAT 10 MK2 Designer Mills Builder M.A.T. Series 01/1997 Age Date 01/2005 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.226% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.547m VCGD 0.122m Sink 16.50kg/mm RL 8.374m VCGM -0.058m WS 21.74m² LSM0 9.582m Displacement/Length ratio 4.9695
PROPELLER Installation Strut PRD 0.405 Type Folding 2 blades PBW 0.130 PIPA 0.0034		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	613.6	683.1
Time on Time	0.9779	0.9882
Triple Number	Low Medium High	Low Medium High
Time on Distance	724.2 560.1 500.6	934.1 685.5 598.1
Time on Time	0.9320 1.2052 1.3483	0.7226 0.9847 1.1285

2020

ORC Club Certificate Appendix

BOAT	
Name Dönence	Certificate Number 073/20
Sail Nr TUR-4141	Issued On 30/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1079.3	890.9	782.7	729.7	711.4	704.1	703.4
52°	703.7	593.5	536.8	514.4	505.8	502.0	500.6
60°	664.2	565.7	522.0	502.4	492.2	487.8	485.2
75°	636.5	546.5	511.1	491.5	476.9	465.9	457.2
90°	645.3	541.5	503.2	489.6	472.1	454.8	429.3
110°	635.6	531.2	492.9	468.0	449.3	436.4	414.1
120°	653.0	540.5	497.5	470.1	442.8	419.4	393.0
135°	720.4	585.2	518.0	487.4	460.8	433.0	378.7
150°	851.6	678.0	574.0	516.8	488.6	464.1	413.4
Run VMG	983.3	782.9	662.3	586.0	533.7	500.1	452.5
Selected Courses							
Windward / Leeward	1031.3	836.9	722.5	657.8	622.5	602.1	577.9
Circular Random	870.1	702.8	613.5	562.0	530.6	510.0	483.8
Coastal / Long Distance	1026.5	785.8	653.1	579.2	540.5	510.1	462.3
Non Spinnaker	937.8	750.3	648.5	588.9	552.2	528.5	499.1

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°	39.0°	38.3°	38.1°	38.3°
Beat VMG	3.34	4.04	4.60	4.93	5.06	5.11	5.12
52°	5.12	6.07	6.71	7.00	7.12	7.17	7.19
60°	5.42	6.36	6.90	7.17	7.31	7.38	7.42
75°	5.66	6.59	7.04	7.32	7.55	7.73	7.87
90°	5.58	6.65	7.15	7.35	7.63	7.92	8.39
110°	5.66	6.78	7.30	7.69	8.01	8.25	8.69
120°	5.51	6.66	7.24	7.66	8.13	8.58	9.16
135°	5.00	6.15	6.95	7.39	7.81	8.31	9.51
150°	4.23	5.31	6.27	6.97	7.37	7.76	8.71
Run VMG	3.66	4.60	5.44	6.14	6.75	7.20	7.96
Gybe Angles	145.0°	149.0°	150.8°	158.0°	178.0°	180.0°	180.0°