



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **060/20**
Issued On **29/09/2020**
ORC Ref **02920000R0Q**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 783kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	562.8	1.0661
Non Spin OSN	549.9	1.0912

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 153.79**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

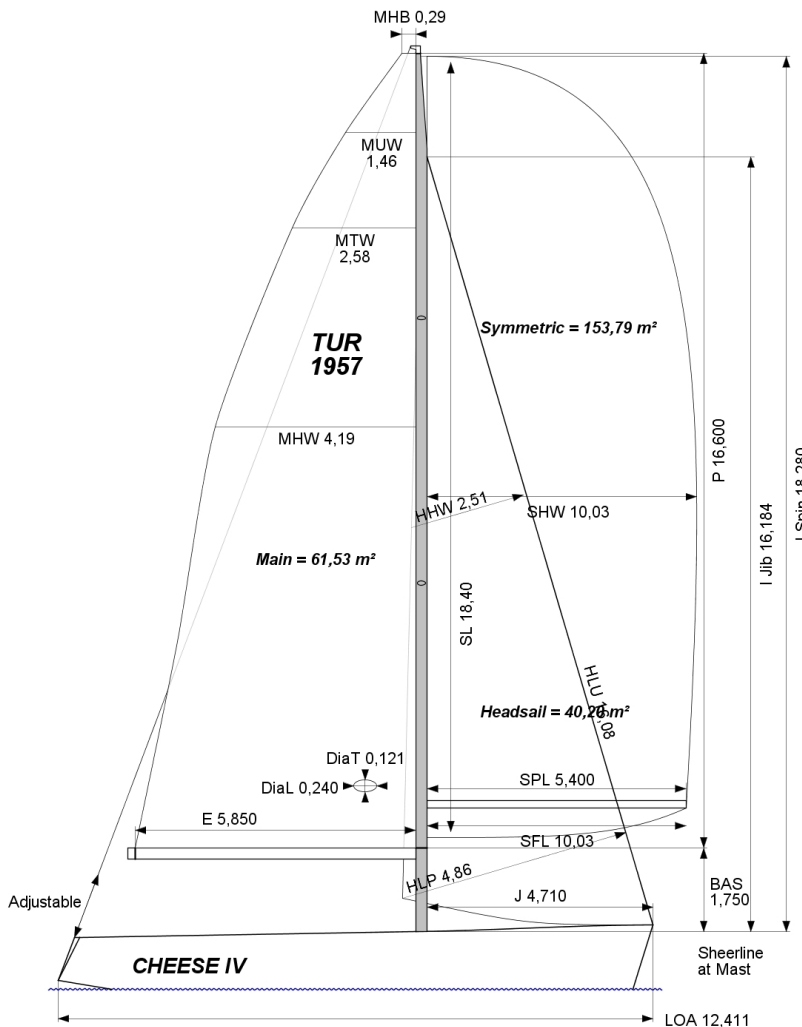
Class Division Length

CDL = 11.265

Stability (Estimated)

Limit Positive Stab.: **127.9°**
Stability Index: **124.4**

Owner



BOAT		GPH		HULL		
Name Cheese IV Sail Nr TUR-1957		529.2		Data File TUR1957	LOA 12.411m	
CLASS		IMS Division Performance		Offset File FARR40.OD.OFF	MB 3.956m	
Class Farr 40		Plan Review		Displacement 5,056kg	Draft 2.596m	
Designer Farr		Dynamic All. 0.000%		Fiber Rigging No		
Builder Carroll		Construction Cored		Crew Arm Ex		
Series 01/1996		Aramid Core No		Carbon Rudder Yes		
Age Date 01/2000		Carbon Rudder Yes		Light Stanchions No		
Age Allowance 0.487%		Light Stanchions No		IMSL 11.250m VCGD -0.264m Sink 21.07kg/mm		
COMMENTS		Water Ballast 0 Trim Tab No		RL 11.294m VCGM -0.266m WS 27.83m²		
PROPELLER		BLR Index 0.0000		LSM0 10.947m Displacement/Length ratio 3.8541		
Installation Strut		CENTERBOARD		Water Ballast 0 Trim Tab No		
Type Folding 2 blades		PRD 0.407		BLR Index 0.0000		
		PIPA 0.0035		N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	515.6			577.4		
Time on Time	1.1637			1.1691		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	591.7	474.3	420.6	759.8	581.9	509.5
Time on Time	1.1408	1.4230	1.6049	0.8884	1.1599	1.3249

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	060/20
Name	Cheese IV	Issued On	29/09/2020
Sail Nr	TUR-1957		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	859.9	706.1	649.9	628.3	616.7	602.0	599.5
52°	564.0	480.6	458.9	450.4	445.6	439.4	432.3
60°	532.0	466.4	446.0	436.4	430.3	425.4	413.4
75°	508.2	456.8	431.7	413.7	403.9	397.8	385.1
90°	511.1	456.7	429.3	403.3	383.8	371.6	359.2
110°	528.6	453.9	423.8	403.8	384.6	368.2	327.0
120°	542.8	457.7	420.5	390.9	371.5	354.1	318.7
135°	599.2	484.5	440.2	404.2	369.3	335.4	290.6
150°	710.9	564.8	484.2	442.7	410.0	378.1	312.2
Run VMG	820.9	652.2	558.9	503.2	465.6	433.7	360.5
Selected Courses							
Windward / Leeward	840.4	679.1	604.4	565.8	541.1	517.9	480.0
Circular Random	717.2	584.4	514.6	474.1	447.8	428.5	399.7
Coastal / Long Distance	838.4	640.6	548.4	494.8	462.2	432.1	382.1
Non Spinnaker	777.7	627.3	546.2	498.3	467.5	446.0	417.5

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	42.8°	40.9°	38.3°	37.5°	36.8°	36.0°	36.6°
Beat VMG	4.19	5.10	5.54	5.73	5.84	5.98	6.00
52°	6.38	7.49	7.84	7.99	8.08	8.19	8.33
60°	6.77	7.72	8.07	8.25	8.37	8.46	8.71
75°	7.08	7.88	8.34	8.70	8.91	9.05	9.35
90°	7.04	7.88	8.39	8.93	9.38	9.69	10.02
110°	6.81	7.93	8.49	8.92	9.36	9.78	11.01
120°	6.63	7.87	8.56	9.21	9.69	10.17	11.29
135°	6.01	7.43	8.18	8.91	9.75	10.73	12.39
150°	5.06	6.37	7.43	8.13	8.78	9.52	11.53
Run VMG	4.39	5.52	6.44	7.15	7.73	8.30	9.99
Gybe Angles	143.0°	143.5°	150.5°	157.0°	172.0°	180.0°	144.8°