



ORC
Offshore Racing Congress
World leader in rating technology

2019
ORC Club
Certificate

Rating Office
Hungarian Yachting Association
Istvanmezei ut 1-3
H-1146 Budapest
HUNGARY

MAGYAR VITORLÁS SZÖVETSÉG
HUNGARIAN YACHTING ASSOCIATION

Certificate

Number **032/19**
Issued On **31/07/2019**
ORC Ref **HUN10026070**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default 718kg
Maximum **730kg**
Minimum* **548kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **571.2 1.0504**
Double H.OSN **559.5 1.0723**
Non Spin GPH **593.0 1.0118**
Non Spin OSN **580.1 1.0343**

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 174.33**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = 10.076

Stability (Estimated)

Limit Positive Stab.: **116.6°**
Stability Index: **113.2**

Owner
Sandor Kurucz
Arany Janos street 27
8200 Veszprem
HUNGARY

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

BOAT		GPH		HULL					
Name Magnum Sail Nr HUN-3705		552.7		Data File HUN3705	LOA 10.990m				
				Offset File N370SK.OFF	MB 3.458m				
				Displacement 4 040kg	Draft 1.950m				
CLASS				IMS Division Performance	Dynamic All. 0.001%				
Class Nautic 370				Fwd Accom. Yes	Construction Carbon				
Designer Andrej Justin				Fiber Rigging No	Aramid Core No				
Builder Nautic Boats				Crew Arm Ex	Carbon Rudder Yes				
Series 02/2009				Light Stanchions No					
Age Date 02/2009				IMSL 10.572m	VCGD 0.036m	Sink 21.17kg/mm			
Age Allowance 0.325%				RL 9.578m	VCGM 0.031m	WS 26.50m²			
COMMENTS				LSM0 10.302m	Displacement/Length ratio 3.6950				
				Water Ballast 0	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Strut	PRD 0.400			N/A					
Type Folding 2 blades	PBW 0.100								
	PIPA 0.0039								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE					WINDWARD / LEEWARD			
Time on Distance	539.9					609.5			
Time on Time	1.1113					1.1074			
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	619.4	494.8	438.3	800.2	615.3	536.3			
Time on Time	1.0897	1.3641	1.5402	0.8435	1.0970	1.2586			

2019

ORC Club Certificate Appendix

BOAT	
Name Magnum	Certificate Number 032/19
Sail Nr HUN-3705	Issued On 31/07/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	928.7	762.6	703.8	682.3	669.4	657.2	664.5
52°	602.0	506.8	480.3	471.5	467.1	460.1	457.8
60°	565.7	486.9	464.3	455.6	450.6	443.8	436.2
75°	535.9	474.9	446.6	429.7	420.4	415.1	398.7
90°	539.9	477.5	446.3	416.0	395.2	385.1	376.1
110°	536.5	463.4	434.5	412.5	392.9	375.6	332.6
120°	547.1	465.8	424.1	395.9	376.8	357.6	320.5
135°	612.4	490.1	445.0	403.4	360.8	325.9	285.9
150°	727.6	579.8	494.0	447.4	413.6	374.3	295.9
Run VMG	840.2	669.5	570.4	517.2	477.6	432.2	341.7
Selected Courses							
Windward / Leeward	884.4	716.1	637.1	599.7	573.5	544.7	503.1
Circular Random	750.4	610.8	537.3	494.6	466.9	446.7	416.1
Coastal / Long Distance	880.0	673.3	574.9	518.7	483.3	448.8	394.6
Non Spinnaker	820.9	661.2	575.3	524.8	492.6	470.6	441.4

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	43.9°	42.1°	40.5°	39.8°	40.1°	39.9°	41.2°
Beat VMG	3.88	4.72	5.12	5.28	5.38	5.48	5.42
52°	5.98	7.10	7.50	7.64	7.71	7.82	7.86
60°	6.36	7.39	7.75	7.90	7.99	8.11	8.25
75°	6.72	7.58	8.06	8.38	8.56	8.67	9.03
90°	6.67	7.54	8.07	8.65	9.11	9.35	9.57
110°	6.71	7.77	8.28	8.73	9.16	9.58	10.82
120°	6.58	7.73	8.49	9.09	9.55	10.07	11.23
135°	5.88	7.35	8.09	8.93	9.98	11.04	12.59
150°	4.95	6.21	7.29	8.05	8.70	9.62	12.17
Run VMG	4.28	5.38	6.31	6.96	7.54	8.33	10.54
Gybe Angles	143.3°	145.0°	149.3°	151.6°	148.3°	145.5°	144.1°