



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας

Certificate
Number **00203**
Issued On **10/06/2020**
ORC Ref **03420000KCB**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	534kg
Maximum	650kg
Minimum*	488kg

**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 761.9	0.7875
Non Spin OSN 734.2	0.8172

Sails Limitations

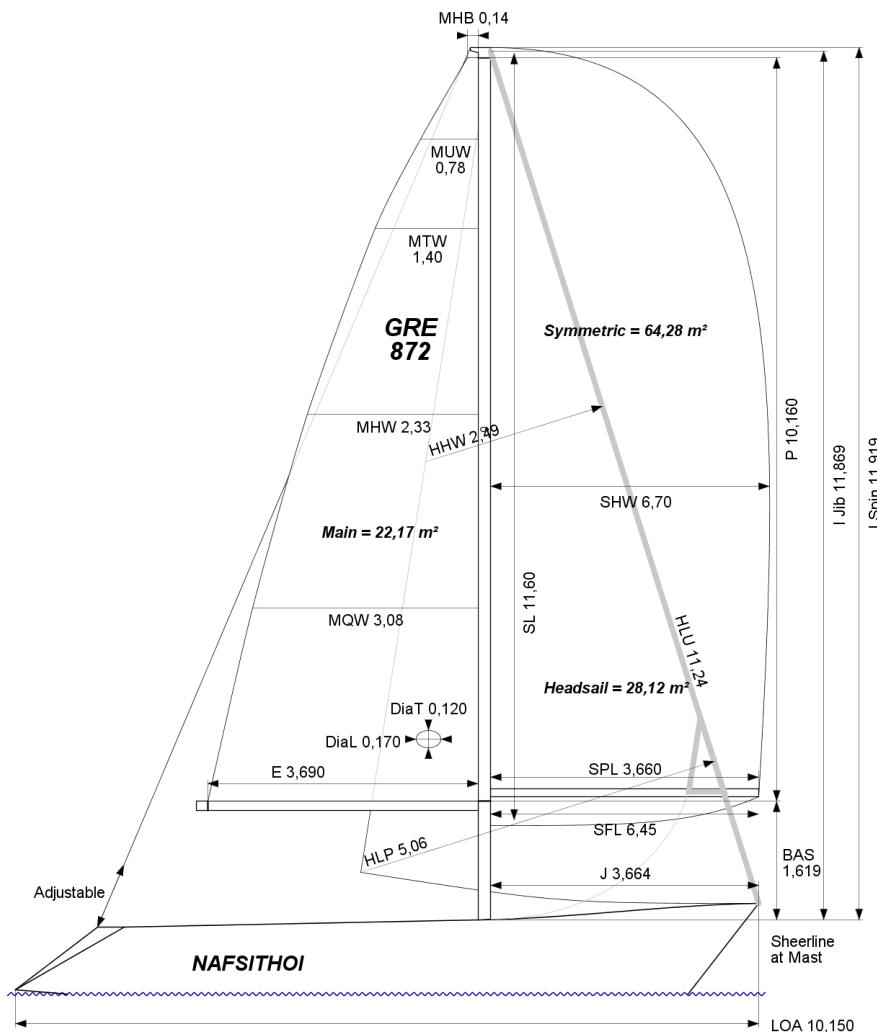
Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes** **64.28**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 7.344

Stability (Estimated)
Limit Positive Stab.: **108.2°**
Stability Index: **111.6**

Owner



BOAT Name NAFSITHOI Sail Nr GRE-872	GPH 725.9	HULL Data File GR872 LOA 10.150m Offset File DR3000XT.OFF MB 3.240m Displacement 5,520kg Draft 1.734m
CLASS Class DISCOVERY 3000EXT Designer ED DUBOIS Builder DROMOR YACHTS Series 06/1989 Age Date 06/1989 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.525% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS ex "IASONAS", ex "NYSTERI". Weighted by measurer.		IMSL 8.753m VCGD 0.083m Sink 16.81kg/mm RL 5.933m VCGM 0.099m WS 22.84m² LSM0 8.371m Displacement/Length ratio 9.4104 Water Ballast 0 Trim Tab No BLR Index 0.0000
PROPELLER Installation Shaft exposed PRD 0.370 Type Feathering 3 blades PBW 0.092 PIPA 0.0066		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	701.8	784.0
Time on Time	0.8549	0.8609
Triple Number	Low Medium High	Low Medium High
Time on Distance	858.1 637.8 549.9	1112.2 797.9 656.8
Time on Time	0.7866 1.0584 1.2276	0.6069 0.8460 1.0277

BOAT	
Name NAFSITHOI	Sail Nr GRE-872
File GR872	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 10.160	E 3.690 MDT1 0.120 MW
IG 11.869	J 3.664 MDL1 0.170 GO
ISP 11.919	SFJ 0.000 MDT2 0.120 BD
BAS 1.619	SPL 3.660 MDL2 0.170 MWT
FSD -3.000	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 14/05/2014	SG 1.0249
FFM 1.223	FF 1.223 SFFP 0.580
FAM 0.785	FA 0.785 SAFF 8.658
LCF from stem on CL / on sheer	5.443 / 5.684
Maximum beam station from stem	5.400
RM Measured	98.2kg-m
RM Default	95.3kg-m
Limit of positive stability / Stab.Index	108.2° / 111.6
Freeboard at mast at 3.664	1.017



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.370
Type Feathering 3 blades	PBW 0.092
Twin Screw No	PIPA 0.0066
PSA 18.000	PHL 0.059 ST3 0.112 ESL 0.830
PSD 0.025	ST1 0.058 ST4 0.066
PHD 0.089	ST2 0.107 ST5 0.150

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COMMENTS	
ex "IASONAS", ex "NYSTERI". Weighted by measurer.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.14	0.78	1.40	2.33	3.08	22.18		14/05/2014		Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.03	0.62	1.22	2.49	3.74	5.06	11.24	138%	28.12		No		28/02/2016		Dacron	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.60	11.60	11.60	6.70	6.45	64.29		28/02/2016		Unknown						
2	11.40	11.40	11.40	5.00	6.66	50.66		28/02/2016		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name	NAFSITHOI
Sail Nr	GRE-872
Certificate Number	00203
Issued On	10/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1320.8	1082.9	956.0	866.9	800.4	767.6	755.5
52°	844.1	705.0	625.3	574.5	548.8	535.4	527.7
60°	789.7	664.6	590.0	553.6	534.1	521.9	511.8
75°	753.5	637.1	567.9	538.6	521.4	508.4	489.4
90°	761.2	627.3	553.2	522.8	506.2	497.7	477.9
110°	745.5	612.5	544.2	515.2	494.4	475.3	447.9
120°	767.0	629.2	552.0	519.7	498.1	477.5	441.0
135°	845.3	685.9	586.4	537.9	512.9	492.6	452.7
150°	991.9	779.6	659.8	578.4	537.2	514.0	476.2
Run VMG	1145.4	899.8	760.1	663.0	593.6	547.8	502.8
Selected Courses							
Windward / Leeward	1233.1	991.4	858.1	765.0	697.0	657.7	629.2
Circular Random	1022.6	816.9	703.3	634.9	591.6	563.4	531.4
Coastal / Long Distance	1224.3	928.1	765.3	659.6	598.8	559.9	507.2
Non Spinnaker	1086.7	862.6	737.5	661.3	612.5	580.5	543.7

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	45.0°	43.5°	43.1°	42.8°	41.6°	40.5°	40.1°
Beat VMG	2.73	3.32	3.77	4.15	4.50	4.69	4.77
52°	4.26	5.11	5.76	6.27	6.56	6.72	6.82
60°	4.56	5.42	6.10	6.50	6.74	6.90	7.03
75°	4.78	5.65	6.34	6.68	6.90	7.08	7.36
90°	4.73	5.74	6.51	6.89	7.11	7.23	7.53
110°	4.83	5.88	6.62	6.99	7.28	7.57	8.04
120°	4.69	5.72	6.52	6.93	7.23	7.54	8.16
135°	4.26	5.25	6.14	6.69	7.02	7.31	7.95
150°	3.63	4.62	5.46	6.22	6.70	7.00	7.56
Run VMG	3.14	4.00	4.74	5.43	6.06	6.57	7.16
Gybe Angles	147.0°	151.0°	153.0°	155.0°	172.0°	180.0°	180.0°