



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 **01155**
Issued On **12/06/2020**
ORC Ref **03420000KKC**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	640kg
Maximum	640kg
Minimum*	480kg

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

Special Scoring

ToD	ToT
Non Spin GPH 707.4	0.8482
Non Spin OSN 682.5	0.8791

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **84.49**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

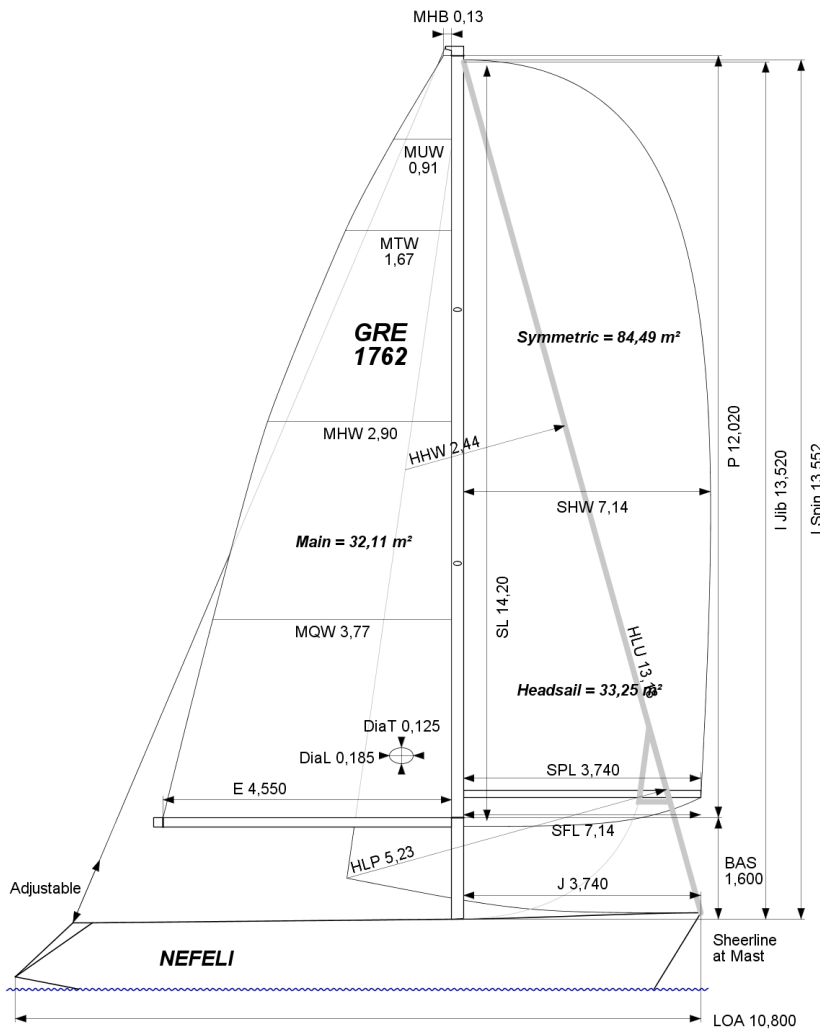
Class Division Length

CDL = 8.358

Stability (Estimated)

Limit Positive Stab.: **115.3°**
Stability Index: **116.3**

Owner



BOAT Name NEFELI Sail Nr GRE-1762	GPH 672.5	HULL Data File GR1762 LOA 10.800m Offset File SDANCEFK.OFF MB 3.720m Displacement 6,432kg Draft 2.049m IMS Division Cruiser/Racer Dynamic All. 0.402% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No IMSL 9.390m VCGD 0.039m Sink 19.26kg/mm RL 7.325m VCGM 0.032m WS 27.35m² LSM0 9.499m Displacement/Length ratio 7.5043 Water Ballast 0 Trim Tab No BLR Index 0.0000
CLASS Class SUN DANCE 36 Designer J & J/ANDRIEU Builder Jeanneau Series 01/1989 Age Date 08/1989 Age Allowance 0.487%		CENTERBOARD N/A
COMMENTS		
PROPELLER Installation Shaft exposed PRD 0.415 Type Folding 2 blades PBW 0.130 PIPA 0.0077		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	650.4	725.2
Time on Time	0.9224	0.9307
Triple Number	Low Medium High	Low Medium High
Time on Distance	789.7 591.3 516.5	1023.2 734.4 616.4
Time on Time	0.8548 1.1416 1.3068	0.6597 0.9191 1.0950

BOAT	
Name NEFELI	Sail Nr GRE-1762
File GR1762	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
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 12.020	E 4.550 MDT1 0.125 MW 0.185
IG 13.520	J 3.740 MDL1 0.185 GO 0.191
ISP 13.552	SFJ 0.000 MDT2 0.125 BD 0.145
BAS 1.600	SPL 3.740 MDL2 0.185 MWT 138.40
FSD -3.000	TPS 0.000 TL 0.000 MCG 4.740

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 23/04/2016	SG 1.0250
FFM 1.192 FF 1.192 SFFP 0.605	
FAM 1.051 FA 1.051 SAFP 9.588	
LCF from stem on CL / on sheer	5.850 / 6.115
Maximum beam station from stem	6.869
RM Measured	137.3kg-m
RM Default	133.3kg-m
Limit of positive stability / Stab.Index	115.3° / 116.3
Freeboard at mast at 3.740	1.107



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.415
Type Folding 2 blades	PBW 0.130
Twin Screw No	PIPA 0.0077
PSA 27.000 PHL 0.152 ST3 0.080 ESL 1.060	
PSD 0.025 ST1 0.030 ST4 0.070	
PHD 0.070 ST2 0.090 ST5 0.210	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
MN	0.13	0.91	1.67	2.90	3.77	32.11		21/06/2016	QUANTUM	Pentex						
M1	0.14	0.77	1.42	2.58	3.57	29.78		16/05/2016	North Sails	Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.07	0.61	1.20	2.44	3.77	5.23	13.18	140%	33.25		No		21/06/2016	QUANTUM	Pentex	
R1	0.04	0.56	1.03	2.36	3.70	5.10	12.94	136%	31.47		No		16/05/2016	DSails	Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S1	14.20	14.20	14.20	7.14	7.14	84.49		12/04/2000	QUANTUM	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name	NEFELI
Sail Nr	GRE-1762
Certificate Number	01155
Issued On	12/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1189.0	978.4	861.3	780.2	735.4	718.4	712.4
52°	767.8	644.9	571.6	533.0	514.6	505.7	500.9
60°	722.4	610.1	547.0	517.9	502.2	492.5	485.4
75°	691.2	583.4	530.0	506.1	490.6	478.3	460.8
90°	699.4	581.8	519.8	494.2	481.4	472.5	446.8
110°	692.9	567.4	511.4	485.6	464.9	446.1	424.8
120°	713.5	583.0	517.8	489.5	467.7	446.6	411.8
135°	786.5	638.7	547.1	506.0	482.6	461.6	421.6
150°	932.9	734.7	618.7	542.9	506.5	484.5	445.5
Run VMG	1077.2	848.4	714.1	622.1	561.0	518.2	474.3
Selected Courses							
Windward / Leeward	1133.1	913.4	787.7	701.2	648.2	618.3	593.3
Circular Random	942.3	754.4	651.6	590.6	552.6	528.2	499.7
Coastal / Long Distance	1127.5	856.2	705.1	609.3	559.9	526.9	476.9
Non Spinnaker	1004.7	798.8	684.7	616.1	572.9	544.9	512.1

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	44.3°	42.8°	41.6°	41.3°	39.8°	39.6°	39.8°
Beat VMG	3.03	3.68	4.18	4.61	4.90	5.01	5.05
52°	4.69	5.58	6.30	6.75	7.00	7.12	7.19
60°	4.98	5.90	6.58	6.95	7.17	7.31	7.42
75°	5.21	6.17	6.79	7.11	7.34	7.53	7.81
90°	5.15	6.19	6.93	7.28	7.48	7.62	8.06
110°	5.20	6.34	7.04	7.41	7.74	8.07	8.47
120°	5.05	6.17	6.95	7.36	7.70	8.06	8.74
135°	4.58	5.64	6.58	7.11	7.46	7.80	8.54
150°	3.86	4.90	5.82	6.63	7.11	7.43	8.08
Run VMG	3.34	4.24	5.04	5.79	6.42	6.95	7.59
Gybe Angles	146.0°	150.0°	151.0°	155.0°	172.0°	180.0°	180.0°