



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 **01073**
Issued On **17/06/2020**
ORC Ref **03420000KT7**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	483kg
Maximum	483kg
Minimum*	362kg

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

Special Scoring

ToD	ToT
Non Spin GPH 771.7	0.7775
Non Spin OSN 740.3	0.8105

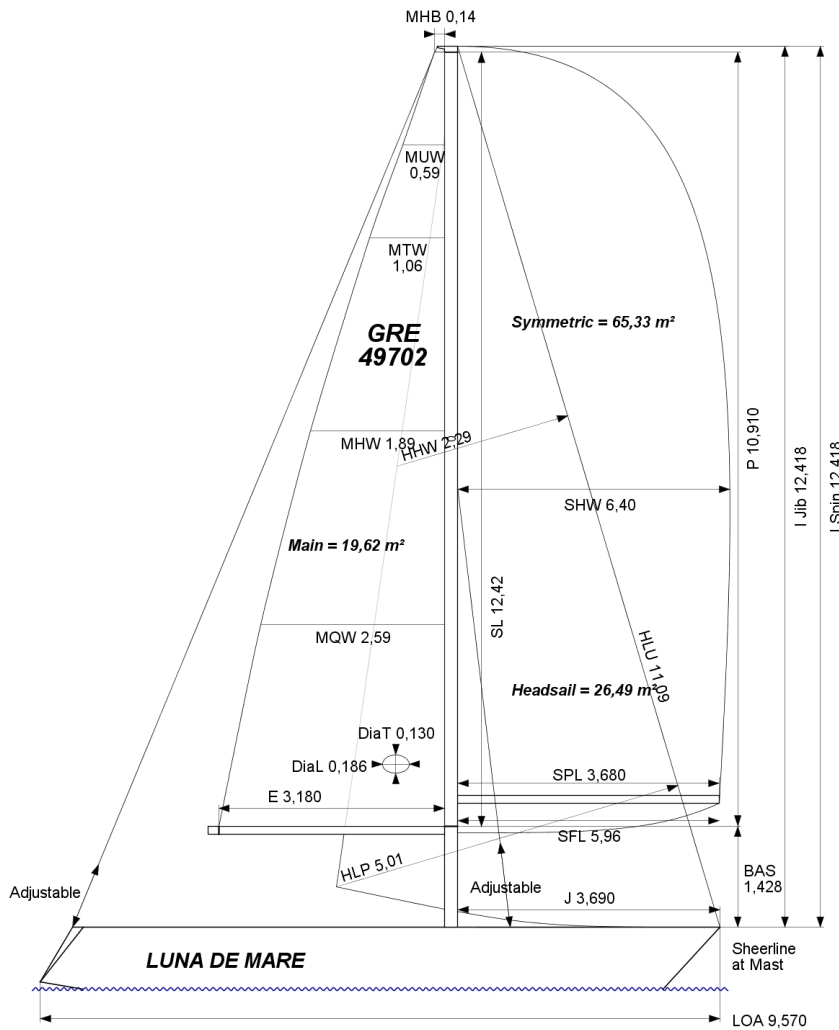
Sails Limitations
Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes** **65.33**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 7.061

Stability (Estimated)
Limit Positive Stab.: **109.5°**
Stability Index: **107.4**

Owner



BOAT Name LUNA DE MARE Sail Nr GRE-49702		GPH 725.9	HULL Data File GR49702 LOA 9.570m Offset File hc33501.off MB 3.180m Displacement 3,600kg Draft 1.862m			
CLASS Class JOUET 950 Designer Yves Marechal Builder JOUET Series 01/1983 Age Date 05/1985 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.317% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No				
COMMENTS Builder's displacement.		IMSL 7.853m VCGD 0.000m Sink 15.08kg/mm RL 6.273m VCGM 0.016m WS 20.13m² LSM0 7.799m Displacement/Length ratio 7.5890 Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Shaft exposed PRD 0.380 Type Solid 3 blades PIPA 0.0180		CENTERBOARD NA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	699.5			777.2		
Time on Time	0.8577			0.8685		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	861.8	636.5	548.3	1113.3	787.9	650.9
Time on Time	0.7832	1.0605	1.2311	0.6063	0.8567	1.0370

BOAT	
Name LUNA DE MARE	Sail Nr GRE-49702
File GR49702	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 15/10/2014	SG
VCGDe 0.000	
FFM 0.871	FF 0.871 SFFP 0.553
FAM 0.876	FA 0.876 SAFP 8.957
LCF from stem on CL / on sheer 5.018 / 5.244	
Maximum beam station from stem 5.390	
RM Measured 103.7kg-m	
RM Default 81.8kg-m	
Limit of positive stability / Stab.Index 109.5° / 107.4	
Freeboard at mast at 3.690 0.870	



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Measurements
Datasheet


RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay Adjustable	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 10.910	E 3.180 MDT1 0.130 MW
IG 12.418	J 3.690 MDL1 0.186 GO
ISP 12.418	SFJ MDT2 0.130 BD
BAS 1.428	SPL 3.680 MDL2 0.186 MWT
FSD	TPS TL 0.000 MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.380
Type Solid 3 blades	PBW
Twin Screw No	PIPA 0.0180
PSA	PHL ST3 ESL
PSD	ST1 ST4
PHD	ST2 ST5

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COMMENTS	
Builder's displacement.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0.14	0.59	1.06	1.89	2.59	19.63		09/06/2016	QUANTUM	Dacron						
2	0.07	0.37	0.71	1.44	2.17	16.19		02/10/2014	KAKITSIS	Dacron						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovr/tp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.55	1.10	2.29	3.59	5.01	11.09	136%	26.49		No		14/10/2014	ALPHA	Dacron	ROLLER
2	0.05	0.44	0.85	1.74	2.67	3.64	11.87	99%	21.13	N	No		02/10/2014	KAKITSIS	Dacron	
3						2.01	6.84	54%	7.00	N	No		02/10/2014		Dacron	STORM JIB
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	12.42	12.42	12.42	6.40	5.96	65.33		01/07/1998		Nylon	SF 13/3/02 ANTONOPOULOS					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

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ORC Club Certificate Appendix

BOAT			
Name	LUNA DE MARE	Certificate Number	01073
Sail Nr	GRE-49702	Issued On	17/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1321.7	1080.2	937.7	843.1	779.6	752.2	745.6
52°	855.0	709.5	625.9	577.7	552.7	539.8	534.3
60°	805.9	672.8	600.1	562.3	540.8	526.8	517.4
75°	774.8	648.1	582.7	550.5	530.4	513.3	490.2
90°	765.9	626.0	557.2	528.5	515.4	506.8	478.2
110°	749.2	612.9	550.8	519.7	493.3	472.0	450.3
120°	772.8	628.7	558.2	525.4	497.9	473.0	434.0
135°	853.3	685.3	588.3	544.5	517.1	490.9	445.3
150°	996.3	780.3	657.4	580.7	543.1	518.1	471.7
Run VMG	1150.4	901.0	757.6	662.6	595.6	553.1	503.7
Selected Courses							
Windward / Leeward	1236.0	990.6	847.7	752.8	687.6	652.7	624.7
Circular Random	1026.1	817.9	702.9	633.9	590.3	561.8	528.8
Coastal / Long Distance	1227.5	927.9	759.9	655.4	597.0	559.4	505.6
Non Spinnaker	1108.3	876.2	746.3	667.1	616.6	583.6	545.3

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°	43.1°	41.4°	41.3°	39.4°	38.3°	38.3°
Beat VMG	2.72	3.33	3.84	4.27	4.62	4.79	4.83
52°	4.21	5.07	5.75	6.23	6.51	6.67	6.74
60°	4.47	5.35	6.00	6.40	6.66	6.83	6.96
75°	4.65	5.55	6.18	6.54	6.79	7.01	7.34
90°	4.70	5.75	6.46	6.81	6.99	7.10	7.53
110°	4.81	5.87	6.54	6.93	7.30	7.63	8.00
120°	4.66	5.73	6.45	6.85	7.23	7.61	8.30
135°	4.22	5.25	6.12	6.61	6.96	7.33	8.08
150°	3.61	4.61	5.48	6.20	6.63	6.95	7.63
Run VMG	3.13	4.00	4.75	5.43	6.04	6.51	7.15
Gybe Angles	147.0°	150.0°	152.0°	157.0°	176.0°	180.0°	180.0°