



2020
ORC Club
Certificate

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



Certificate
Number **00437**
Issued On **25/06/2020**
ORC Ref **03420000LF6**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	507kg
Maximum	507kg
Minimum*	380kg

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

Special Scoring

ToD	ToT
Non Spin GPH 727.8	0.8244
Non Spin OSN 703.8	0.8525

Sails Limitations

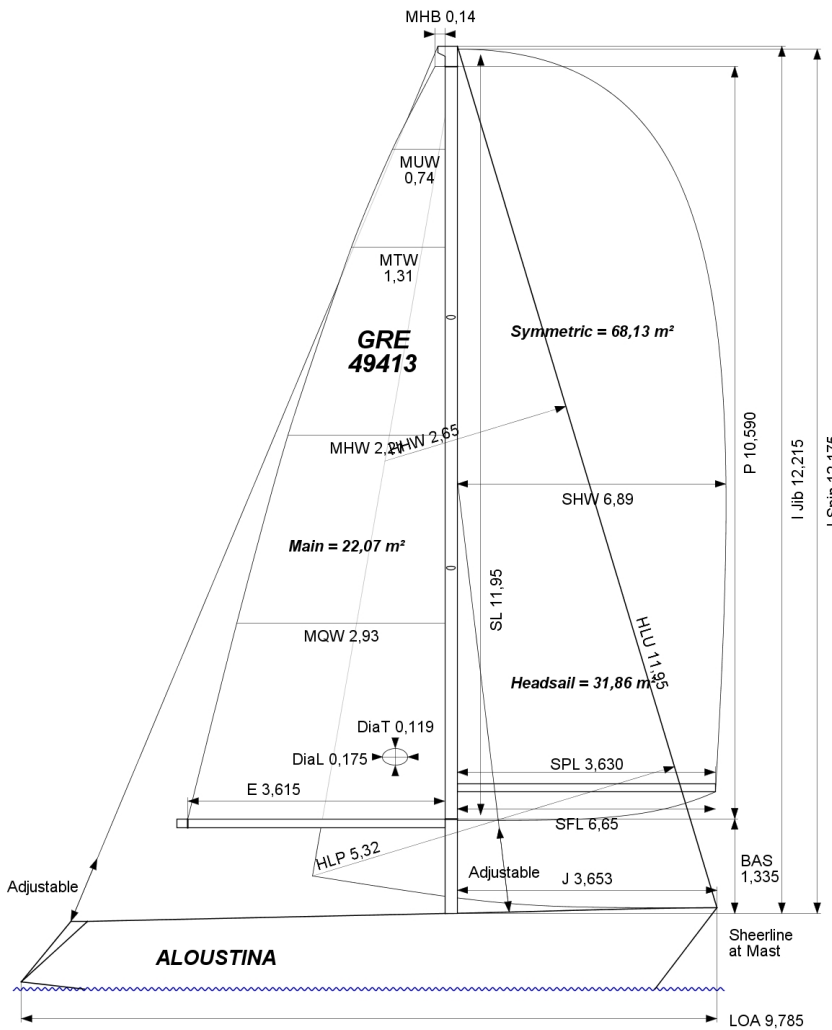
Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **68.13**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **7.612**

Stability (Measured)
Limit Positive Stab.: **113.2°**
Stability Index: **112.7**

Owner



BOAT Name ALOUSTINA Sail Nr GRE-49413		GPH 696.1	HULL Data File GR49413 LOA 9.785m Offset File H107.BOF MB 3.316m Displacement 4,499kg Draft 1.821m			
CLASS Class FIRST 32 Designer J. BERRET Builder BENETEAU Series 01/1981 Age Date 01/1982 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.413% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 8.270m VCGD -0.013m Sink 14.54kg/mm RL 6.957m VCGM 0.095m WS 20.47m² LSM0 8.068m Displacement/Length ratio 8.5668		
COMMENTS ex "VIKING'S STAR"		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Shaft exposed PRD 0.360 Type Feathering 2 blades PBW 0.132 PIPA 0.0052		CENTERBOARD N/A				
SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	674.9			749.9		
Time on Time	0.8891			0.9001		
Triple Number	Low	Medium	High	Low	Medium	High
	802.2	615.1	549.1	1032.1	755.5	652.7
Time on Distance	0.8414	1.0973	1.2293	0.6540	0.8934	1.0341

BOAT	
Name ALOUSTINA	Sail Nr GRE-49413
File GR49413	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 28/05/2010			SG 1.0270		
FFM 1.132	FF 1.139	SFFP 0.280			
FAM 0.927	FA 0.930	SAFP 8.855			
W1 51.5	PD1 262.0	WD 10.240			
W2 51.5	PD2 262.0	GSA 50.3			
W3 51.5	PD3 262.0	RSA 6082.1			
W4 51.5	PD4 262.0	PLM 2140.0			
LCF from stem on CL / on sheer		5.283 / 5.535			
Maximum beam station from stem		5.910			
RM Measured		74.8kg-m			
RM Default		79.0kg-m			
Limit of positive stability / Stab.Index		113.2° / 112.7			
Freeboard at mast at 3.653		1.063			



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet


RIG					
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2		
Inner Stay Adjustable	Jib Furler No		Main Furler No		
Carbon Mast No	Fiber Rigging No		Non-Circular Rigging No		
Articulated Bowsprit No					
P 10.590	E 3.615	MDT1 0.119	MW 0.175		
IG 12.215	J 3.653	MDL1 0.175	GO 0.245		
ISP 12.175	SFJ 0.000	MDT2 0.119	BD 0.130		
BAS 1.335	SPL 3.630	MDL2 0.175	MWT		
FSD 0.032	TPS	TL 0.000	MCG		

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.360		
Type Feathering 2 blades	PBW 0.132		
Twin Screw No	PIPA 0.0052		
PSA 22.000	PHL 0.200	ST3 0.100	ESL 0.765
PSD 0.025	ST1 0.017	ST4 0.050	
PHD 0.071	ST2 0.075	ST5 0.200	

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COMMENTS	
ex "VIKING'S STAR"	

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	0.74	1.31	2.21	2.93	22.07		08/03/2011	KAKITSIS	Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.68	1.33	2.65	4.00	5.32	11.95	146%	31.86		No		24/04/2020		Unknown	Unknow
2	0.04	0.54	1.08	2.23	3.46	4.74	12.23	130%	28.08		No		13/04/2010	KAKITSIS	Unknown	Unknow
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	12.00	11.90	11.95	6.89	6.65	68.14		15/08/2009		Unknown						
S1	11.95	11.95	11.95	6.72	6.48	66.45		12/05/2008		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer				
Date 28/05/2010				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
OR	Ancher	15.0	4.05	
OR	Chain	37.0	4.05	CHAIN
FO	Foels	10.0	6.65	FOELS
Id	Item	Maker	Model	
OR	Engine	YANMAR	15hp	
Id	Item	Weight	Description	
SH	Deck-Gear	5.0		

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
W2	Tank	WATER		INOX	75.0	4.55		0-0	PORT
W1	Tank	WATER		INOX	75.0	4.55		0-0	STARBOARD
F	Tank	FUEL		INOX	60.0	7.95			45.0
Id	Item	Weight	Distance	VCG Description					
BAT	Battery	30.0	6.65	2x45 Ah					
OR	Misc	27.0	1.05	WINDLASS					

2020

ORC Club Certificate Appendix

BOAT	
Name	ALOUSTINA
Sail Nr	GRE-49413
Certificate Number	00437
Issued On	25/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1175.8	981.2	868.0	800.6	774.4	763.8	766.5
52°	769.5	652.4	586.9	559.0	546.0	540.8	538.8
60°	728.5	619.7	568.7	546.0	533.0	526.1	522.5
75°	701.7	597.4	555.6	534.9	520.1	508.4	495.5
90°	711.5	601.6	550.2	526.6	516.0	501.4	476.5
110°	718.6	591.8	541.6	516.0	494.5	475.9	457.0
120°	739.6	606.4	547.2	519.7	496.6	474.2	440.6
135°	811.7	662.6	572.8	535.7	512.0	489.2	446.6
150°	952.3	755.4	640.1	568.0	535.5	513.4	471.4
Run VMG	1099.6	872.0	737.9	645.8	582.7	544.9	501.5
Selected Courses							
Windward / Leeward	1137.7	926.6	802.9	723.2	678.6	654.4	634.0
Circular Random	961.3	775.2	675.1	617.0	581.8	559.7	534.1
Coastal / Long Distance	1133.9	870.4	723.6	634.8	591.4	559.5	510.0
Non Spinnaker	1018.3	815.5	705.1	640.2	600.4	575.3	546.3

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	42.8°	41.3°	41.3°	40.3°	39.4°	39.0°	39.8°
Beat VMG	3.06	3.67	4.15	4.50	4.65	4.71	4.70
52°	4.68	5.52	6.13	6.44	6.59	6.66	6.68
60°	4.94	5.81	6.33	6.59	6.75	6.84	6.89
75°	5.13	6.03	6.48	6.73	6.92	7.08	7.27
90°	5.06	5.98	6.54	6.84	6.98	7.18	7.55
110°	5.01	6.08	6.65	6.98	7.28	7.56	7.88
120°	4.87	5.94	6.58	6.93	7.25	7.59	8.17
135°	4.43	5.43	6.28	6.72	7.03	7.36	8.06
150°	3.78	4.77	5.62	6.34	6.72	7.01	7.64
Run VMG	3.27	4.13	4.88	5.57	6.18	6.61	7.18
Gybe Angles	147.0°	151.0°	152.0°	158.0°	180.0°	180.0°	180.0°