



2020
ORC Club
Certificate

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



Certificate
Number **00658**
Issued On **06/06/2020**
ORC Ref **03420000K2N**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	904kg
Maximum	500kg
Minimum*	375kg

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

Special Scoring

ToD	ToT
Non Spin GPH 652.9	0.9190
Non Spin OSN 633.2	0.9476

Sails Limitations

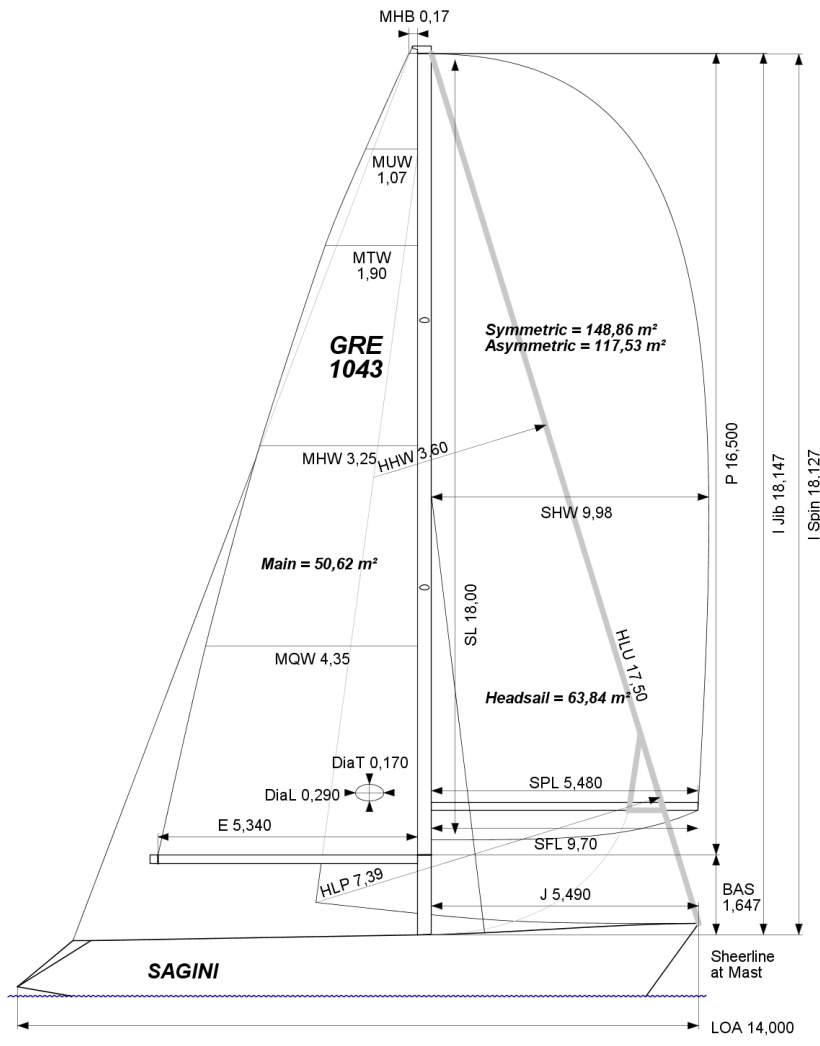
Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **148.86**
Asymmetric: **Yes** **118.54**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **10.061**

Stability (Measured)
Limit Positive Stab.: **109.2°**
Stability Index: **116.8**

Owner



BOAT Name SAGINI Sail Nr GRE-1043		GPH 620.8	HULL Data File GR1043 LOA 14.000m Offset File GR0038.OFF MB 4.466m Displacement 14,310kg Draft 2.058m					
CLASS Class TRITON 48 Designer TRIANTAFYLOPOULOS Builder DROMOR YACHTS Series 01/1992 Age Date 05/1992 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.526% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No					
COMMENTS ex "HISTRIA"			IMSL 11.982m VCGD 0.025m Sink 30.43kg/mm RL 8.142m VCGM 0.117m WS 43.54m² LSM0 12.105m Displacement/Length ratio 8.0676 Water Ballast 0 Trim Tab No BLR Index 0.0000					
PROPELLER Installation Shaft exposed PRD 0.500 Type Feathering 3 blades PIPA 0.0049			CENTERBOARD N/A					
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	602.4			677.3				
Time on Time	0.9960			0.9967				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	725.7	546.6	480.8	942.3	685.6	580.2		
Time on Time	0.9302	1.2349	1.4040	0.7163	0.9846	1.1634		

BOAT	
Name SAGINI	Sail Nr GRE-1043
File GR1043	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay Fixed	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 16.500	E 5.340 MDT1 0.170 MW 0.290
IG 18.147	J 5.490 MDL1 0.290 GO 0.305
ISP 18.127	SFJ 0.000 MDT2 0.170 BD 0.180
BAS 1.647	SPL 5.480 MDL2 0.290 MWT
FSD 0.000	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 14/03/2006	SG 1.0250	
FFM 1.450	FF 1.481	SFFP 0.500
FAM 1.125	FA 1.142	SAFP 12.490
W1 122.5	PD1 191.0	WD 13.850
W2 122.5	PD2 191.0	GSA 28.3
W3 122.5	PD3 191.0	RSA 5674.5
W4 122.5	PD4 191.0	PLM 2005.0
LCF from stem on CL / on sheer		7.610 / 7.922
Maximum beam station from stem		7.854
RM Measured		310.1kg-m
RM Default		321.7kg-m
Limit of positive stability / Stab.Index		109.2° / 116.8
Freeboard at mast at 5.490		1.266



ORC
Offshore Racing Congress
World leader in rating technology


2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft exposed	PRD 0.500	
Type Feathering 3 blades	PBW	
Twin Screw No	PIPA 0.0049	
PSA	PHL 0.115	ST3 0.117 ESL 0.795
PSD 0.035	ST1 0.029	ST4 0.060
PHD 0.077	ST2 0.095	ST5 0.240

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COMMENTS	
ex "HISTRIA"	

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	0.17	1.07	1.90	3.25	4.35	50.63		31/05/2019		Kevlar						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.89	1.77	3.60	5.49	7.39	17.50	135%	63.84		No		02/04/2013		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S1	18.00	18.00	18.00	9.98	9.70	148.86		02/05/2009		Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	18.58	16.98	17.78	7.67	8.98	117.53	asym		02/05/2017		Unknown					

MEASUREMENT INVENTORY				
Measurer				
Date 14/03/2006				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40.0	13.50	Danforth + chain
2	Anchor	150.0	1.00	Danforth + chain
4	Tools	10.0	8.10	2-boxes
Id	Item	Maker	Model	
1	Engine	YANMAR	88hp	
Id	Item	Weight	Description	
4	Deck-Gear	5.0	Ropes	

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Fuel		St. Steel	120.0	10.69			120.0
2	Tank	Fuel		St. Steel	120.0	10.69			120.0
3	Tank	Water		St. Steel	600.0	7.00			300.0
Id	Item	Weight	Distance	VCG Description					
1	Battery	22.0	11.30	2 x 12V					
2	Battery	80.0	9.89	6 + 6 x 6V					
1	Misc	45.0	4.00	Liferaft					

2020

ORC Club Certificate Appendix

BOAT	
Name	SAGINI
Sail Nr	GRE-1043
Certificate Number	00658
Issued On	06/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1103.4	906.5	801.2	740.0	704.9	687.4	678.5
52°	706.5	594.5	527.8	489.7	473.5	466.5	461.9
60°	660.2	561.6	499.8	472.0	458.5	451.4	446.4
75°	625.3	534.2	481.2	458.7	445.8	436.8	426.4
90°	628.2	535.1	479.0	452.6	441.2	430.4	412.9
110°	640.1	527.2	467.6	443.3	427.5	414.7	397.8
120°	654.2	538.4	472.6	445.2	427.6	412.1	387.9
135°	717.9	583.4	501.1	459.9	438.7	422.0	390.0
150°	851.0	672.7	569.7	500.3	461.5	441.0	409.9
Run VMG	982.6	776.7	657.9	575.0	519.7	477.6	434.6
Selected Courses							
Windward / Leeward	1043.0	841.6	729.5	657.5	612.3	582.5	556.6
Circular Random	866.2	695.0	601.7	546.7	512.7	491.1	466.7
Coastal / Long Distance	1037.0	788.7	651.5	566.1	520.6	488.7	443.5
Non Spinnaker	924.0	736.0	632.2	569.9	530.9	505.6	476.2

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°	43.1°	42.0°	42.8°	43.1°	42.2°	41.8°
Beat VMG	3.26	3.97	4.49	4.86	5.11	5.24	5.31
52°	5.10	6.05	6.82	7.35	7.60	7.72	7.79
60°	5.45	6.41	7.20	7.63	7.85	7.97	8.06
75°	5.76	6.74	7.48	7.85	8.07	8.24	8.44
90°	5.73	6.73	7.52	7.95	8.16	8.36	8.72
110°	5.62	6.83	7.70	8.12	8.42	8.68	9.05
120°	5.50	6.69	7.62	8.09	8.42	8.74	9.28
135°	5.01	6.17	7.18	7.83	8.21	8.53	9.23
150°	4.23	5.35	6.32	7.20	7.80	8.16	8.78
Run VMG	3.66	4.63	5.47	6.26	6.93	7.54	8.28
Gybe Angles	145.0°	149.5°	151.0°	152.5°	160.0°	180.0°	180.0°