



World Leader in Rating Technology

2017 ORC Club Certificate

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



Certificate
 Number **F00117**
 Issued On **20/4/2017**
 ORC Ref **GRE01007233**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**

Crew Weight

Declared	320kg
Default*	457kg
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	781,2	0,7680
Non Spin OSN	756,3	0,7933

Sails Limitations

Headsails **1** Spinnakers **3**

Dacron Sails

Spinnaker configuration
 Symmetric: **Yes** **52,52**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

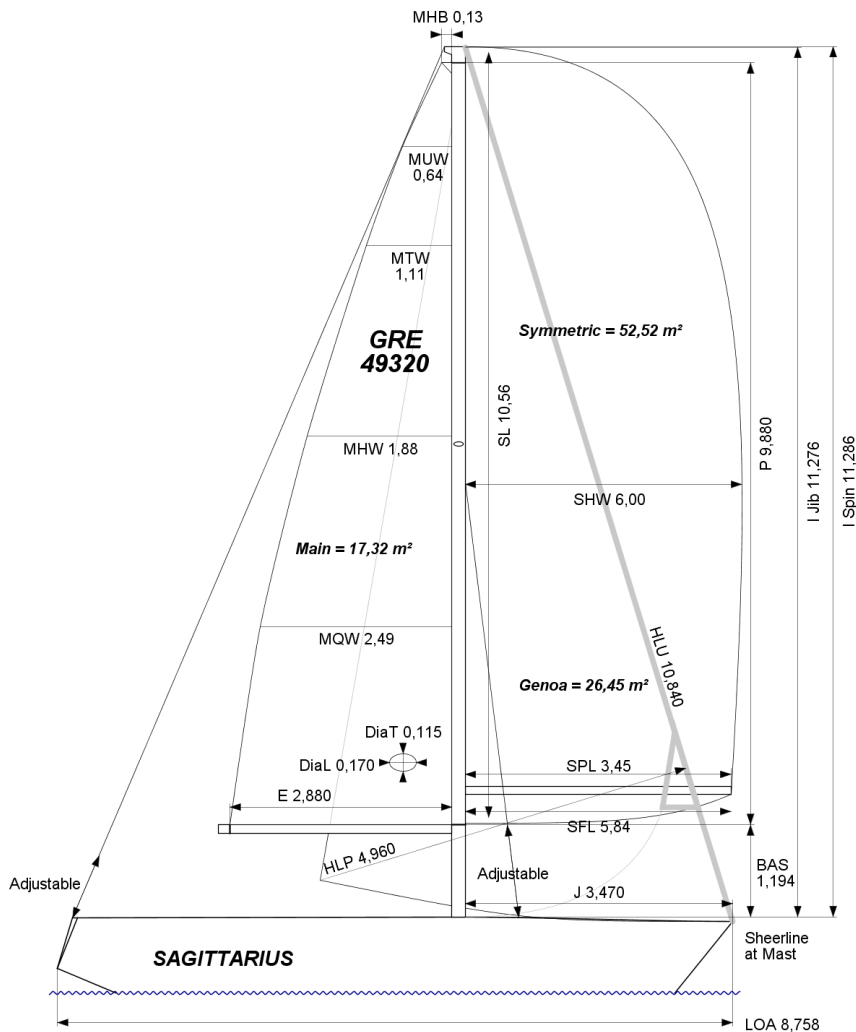
Class Division Length

CDL = 6,489

Stability (Measured)

Limit Positive Stab.: **119,4°**
 Stability Index: **122,2**

Owner



BOAT		GPH		HULL		
Name SAGITTARIUS Sail Nr GRE-49320		752,0		Data File GR49320	LOA 8,758m	
				Offset File E201.OFF	MB 2,832m	
				Displacement 3,858kg	Draft 1,725m	
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0,590%	
Class FIRST 30				Fwd Accom. Yes	Construction Solid	
Designer ANDRE MAURIC				Fiber Rigging No	Aramid Core No	
Builder BENETEAU				Crew Arm Ex	Carbon Rudder No	
Series 01/1973					Light Stanchions No	
Age Date 01/1979				IMSL 7,389m	VCGD 0,030m	Sink 11,48kg/mm
Age Allowance 0,487%				RL 5,588m	VCGM 0,040m	WS 17,49m²
COMMENTS				LSM0 7,504m	Displacement/Length ratio 9,1303	
IRON KEEL ex "APILIOTIS", ex "BIG FAMILY", ex "ATLANTIA"				Water Ballast 0	Trim Tab No	
PROPELLER				CENTERBOARD		
Installation Shaft exposed	PRD 0,381			N/A		
Type Folding 2 blades	PBW 0,099					
	PIPA 0,0043					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	730,4			815,9		
Time On Time	0,8215			0,8273		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	864,1	665,3	595,0	1109,6	823,9	711,4
Time on Time	0,7812	1,0146	1,1345	0,6083	0,8193	0,9488

BOAT	
Name SAGITTARIUS	Sail Nr GRE-49320
File GR49320	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 03/05/2005		SG 1,0270	
FFM 0,931	FF 0,982	SFFP 0,490	
FAM 0,971	FA 0,939	SAFP 8,493	
W1 35,2	PD1 356,0	WD 9,540	
W2 35,2	PD2 356,0	GSA 28,3	
W3 35,2	PD3 356,0	RSA 5674,5	
W4 35,2	PD4 356,0	PLM 2370,0	
LCF from stem on CL / on sheer		4,691 / 4,844	
Maximum beam station from stem		4,882	
RM Measured		38,9kg·m	
RM Default		42,2kg·m	
Limit of positive stability / Stab.Index		119,4° / 122,2	
Freeboard at mast at 3,470		0,988	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay Adjustable	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 9,880	E 2,880	MDT1 0,115	MW 0,170
IG 11,276	J 3,470	MDL1 0,170	GO 0,200
ISP 11,286	SFJ 0,000	MDT2 0,115	BD 0,110
BAS 1,194	SPL 3,448	MDL2 0,170	MWT
FSP 0,054	TPS	TL 0,000	MCG



World Leader in Rating Technology

2017 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,381		
Type Folding 2 blades	PBW 0,099		
Twin Screw No	PIPA 0,0043		
PSA 29,250	PHL 0,115	ST3 0,087	ESL 0,722
PSD 0,022	ST1 0,022	ST4 0,040	
PHD 0,046	ST2 0,087	ST5 0,280	

Certificate

Number **F00117**
 ORC Ref **GRE01007233**
 Issued On **20/4/2017**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**



COMMENTS	
IRON KEEL	
ex "APILIOTIS", ex "BIG FAMILY", ex "ATLANTIA"	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0,134	0,64	1,11	1,88	2,49	17,28	ANTONOPOULO	12/06/2003	KAKITSIS	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,12	0,61	1,17	2,38	3,67	4,96	10,84	143%	26,45			KALATZIS	30/03/2013	KAKITSIS	Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	10,56	10,56	10,56	6,00	5,84	52,52	TSALTAS	03/05/2005		Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer TSALTAS GRE-11				
Date 03/05/2005				
Comment				
Id	Item	Weight	Distance	VCG Description
+	Anchor	7,5	0,80	GQR
+	Chain	54,0	0,80	8mm x 20m +
+	Tools	30,0	2,00	
Id	Item	Maker	Model	
1	Engine	Kubota	18HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description
1	Tank	Fuel	Steel	28,0	8,00		0-0	
2	Tank	Water	Bladder	100,0	4,00		0-0	
Id	Item	Weight	Distance	VCG Description				
1	Battery	57,0	4,00	1x80Ah + 1x75Ah + 1x55Ah				



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT			
Name	SAGITTARIUS	Certificate Number	F00117
Sail Nr	GRE-49320	Issued On	20/4/2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1274,5	1069,8	960,4	893,2	863,6	848,6	845,9
52°	836,6	710,5	634,3	600,7	587,4	581,5	578,4
60°	791,1	670,3	607,3	581,8	568,9	563,0	559,4
75°	755,0	638,5	588,9	566,5	551,4	539,9	530,0
90°	759,5	642,3	584,4	564,4	547,5	532,7	508,9
110°	776,2	639,7	579,0	551,0	530,0	518,7	502,2
120°	798,8	657,2	586,3	556,1	533,4	510,9	486,2
135°	874,1	716,4	617,3	573,3	548,4	526,3	484,9
150°	1010,5	805,3	687,0	607,9	571,3	548,4	507,1
Run VMG	1166,8	927,4	789,2	689,9	618,1	578,1	534,1

Selected Courses							
Windward / Leeward	1220,7	998,6	874,8	791,6	740,8	713,3	690,0
Circular Random	1036,0	836,6	729,5	667,3	629,8	606,4	580,0
Ocean for PCS	1262,7	978,5	817,9	719,4	655,6	611,8	553,0
Non Spinnaker	1088,9	873,9	757,1	688,5	646,5	619,8	588,9

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°	41,0°	42,1°	42,4°	41,7°	41,3°	41,4°
Beat VMG	2,82	3,37	3,75	4,03	4,17	4,24	4,26
52°	4,30	5,07	5,68	5,99	6,13	6,19	6,22
60°	4,55	5,37	5,93	6,19	6,33	6,39	6,44
75°	4,77	5,64	6,11	6,36	6,53	6,67	6,79
90°	4,74	5,60	6,16	6,38	6,57	6,76	7,07
110°	4,64	5,63	6,22	6,53	6,79	6,94	7,17
120°	4,51	5,48	6,14	6,47	6,75	7,05	7,40
135°	4,12	5,02	5,83	6,28	6,56	6,84	7,42
150°	3,56	4,47	5,24	5,92	6,30	6,56	7,10
Run VMG	3,09	3,88	4,56	5,22	5,82	6,23	6,74
Gybe Angles	148,4°	152,8°	154,5°	160,0°	180,0°	180,0°	180,0°