



World Leader in Rating Technology

2016
ORC Club
Certificate

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

Certificate
Number **F00117**
Issued On **15/4/2016**
ORC Ref **GRE01005659**
VPP Ver. **2016 1.01**
Valid until **28/2/2017**

Crew Weight
Declared **320kg**
Default* **457kg**
Non Manual Pwr **No**

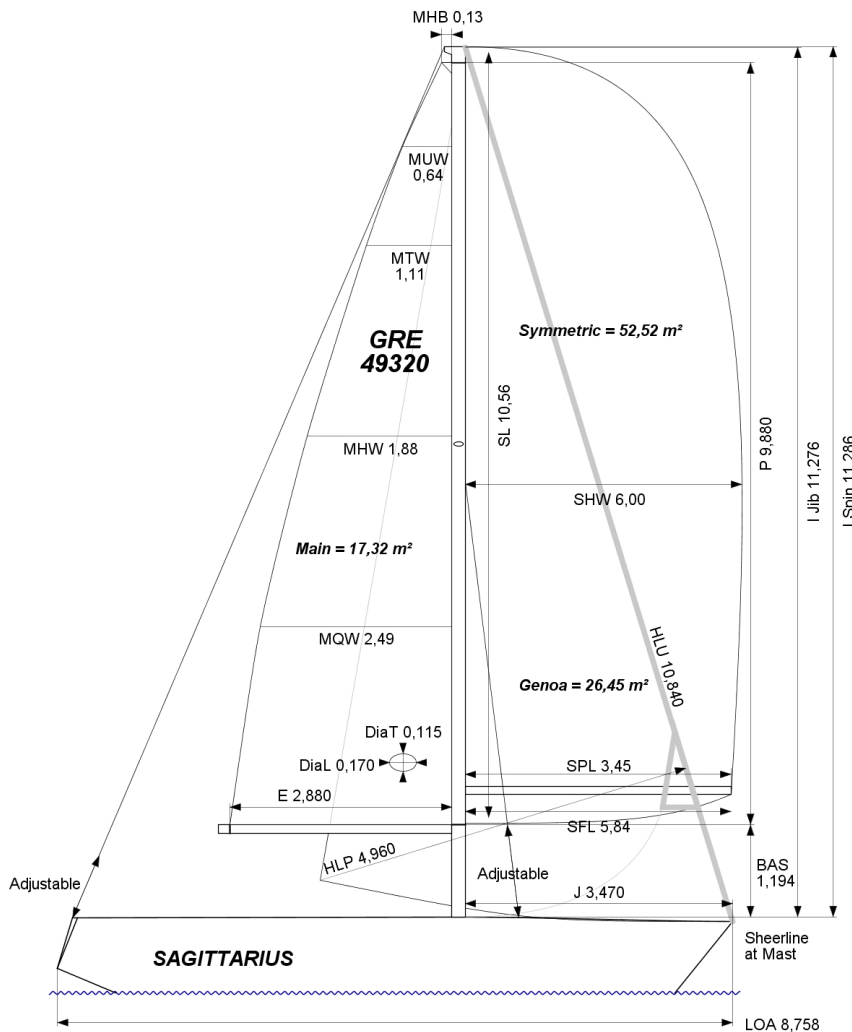
Special Scoring
ToD ToT
Non Spin GPH **781,6 0,7677**
Non Spin OSN **756,9 0,7928**
N/S Perf. Line **24,4 0,519**

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 = **6,475**

Stability
LPS (Measured): **119,4°**
Stability Index: **122,2**
OSR Category: **0**

Owner



BOAT Name SAGITTARIUS Sail Nr GRE-49320		GPH 752,4	HULL Data File GR49320.dxt LOA 8,758m Offset File E201.OFF MB 2,832m Displacement 3,858kg Draft 1,725m		
CLASS Class FIRST 30 Designer ANDRE MAURIC Builder BENETEAU Series 01/1973 Age Date 01/1979 Age Allowance 0,488%		IMS Division Cruiser/Racer Dynamic All. 0,592% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			
COMMENTS IRON KEEL ex "APILIOTIS", ex "BIG FAMILY", ex "ATLANTIA"		IMSL 7,389m VCGM 0,030m Sink 11,48kg/mm RL 5,560m VCGM 0,040m WS 17,49m² LSM0 7,504m Displacement/Length ratio 9,1303			
PROPELLER Installation Shaft exposed PRD 0,381 Type Folding 2 blades PBW 0,099 PIPA 0,0043		CENTERBOARD N/A			
SCORING OPTIONS					
Time On Distance	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD	
	730,9			816,9	
Time On Time	0,8209			0,8263	
Performance Line	PLT	PLD	PLT	PLD	
	0,568	47,2	0,706	209,3	
Triple Number	Low	Medium	High	Low	Medium
	0,7795	1,0145	1,1365	0,6060	0,8179

BOAT	
Name SAGITTARIUS	Sail Nr GRE-49320
File GR49320.dxt	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 35,200	PD1 356,0	WD 9,540	
W2 35,200	PD2 356,0	GSA 28,3	
W3 35,200	PD3 356,0	RSA 5674,5	
W4 35,200	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



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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

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

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,134	0,64	1,11	1,88	2,49	17,32	17,59	P/8 · (E + 2·MQW + 2·MHW + 1,5·MTW + MUW + 0,5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	10,56	10,56	10,56	6,00	5,84	52,52		SL · (SFL + 4·SHW) / 6	
Asymmetric Not Available									

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,12	0,61	1,17	2,38	3,67	4,96	10,84	26,45			30/03/2013	Dacron	

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

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



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ORC Club Certificate Appendix

BOAT	
Name	SAGITTARIUS
Certificate Number	F00117
Sail Nr	GRE-49320
Issued On	15/4/2016

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1284,8	1076,7	965,7	895,5	862,5	846,5	844,6
52°	838,5	711,9	634,1	598,5	584,4	578,2	575,2
60°	790,8	670,1	605,1	578,6	565,4	559,5	556,0
75°	752,6	636,0	585,5	562,7	547,6	536,3	526,6
90°	759,4	642,3	584,4	564,3	547,5	532,7	508,9
110°	776,1	639,7	579,0	551,0	530,0	518,7	502,3
120°	798,7	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	1166,9	927,4	789,2	689,9	618,1	578,1	534,1

Selected Courses							
Windward / Leeward	1225,8	1002,1	877,4	792,7	740,3	712,3	689,4
Circular Random	1037,9	837,6	729,8	667,2	629,2	605,6	579,1
Ocean for PCS	1266,3	980,6	818,8	719,5	655,1	611,0	552,1
Non Spinnaker	1090,7	874,9	757,5	688,3	645,8	618,9	588,0

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	43,4°	41,5°	42,5°	42,8°	42,0°	41,5°	41,6°
Beat VMG	2,80	3,34	3,73	4,02	4,17	4,25	4,26
52°	4,29	5,06	5,68	6,01	6,16	6,23	6,26
60°	4,55	5,37	5,95	6,22	6,37	6,43	6,47
75°	4,78	5,66	6,15	6,40	6,57	6,71	6,84
90°	4,74	5,61	6,16	6,38	6,58	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°