



World Leader in Rating Technology

2017 ORC Club Certificate

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

Certificate
Number **001199**
Issued On **21/3/2017**
ORC Ref **GRE01006901**
VPP Ver. **2017 1.00**
Valid until **28/2/2018**

Crew Weight
Declared **840kg**
Default* **840kg**
Non Manual Pwr **No**

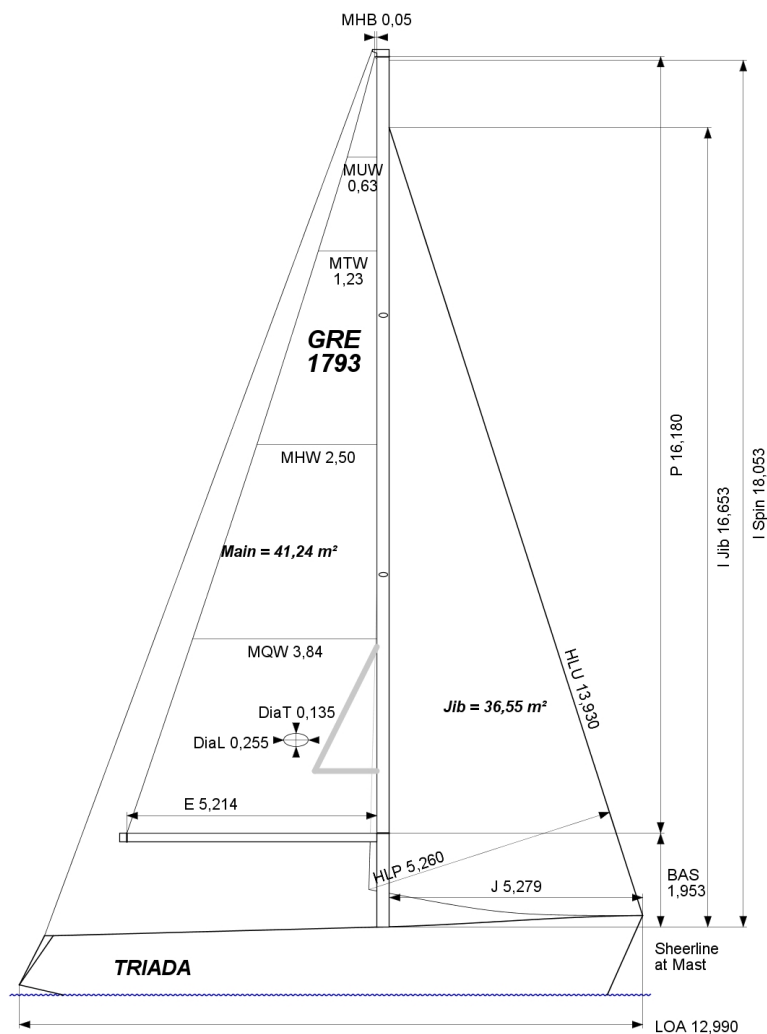
Special Scoring
ToD ToT
Non Spin GPH **712,7 0,8419**
Non Spin OSN **685,9 0,8748**

Sails Limitations
Headsails **5** Spinnakers **0**
Dacron Sails
Spinnaker configuration
Symmetric: **No**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = **9,084**

Stability (Estimated)
Limit Positive Stab.: **110,8°**
Stability Index: **114,9**

Owner



BOAT Name TRIADA Sail Nr GRE-1793		GPH 712,7	HULL Data File GR1793 LOA 12,990m Offset File IMP434SK.off MB 4,198m Displacement 9,940kg Draft 1,642m			
CLASS Class SUN ODYSSEY 439 SD Designer BRIAND Builder JEANNEAU Series 01/2011 Age Date 05/2012 Age Allowance 0,195%			IMS Division Cruiser/Racer Dynamic All. 0,373% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			
COMMENTS Builder's declared displacement.			IMSL 11,572m VCGD 0,195m Sink 27,69kg/mm RL 6,596m VCGM 0,235m WS 35,88m² LSM0 11,497m Displacement/Length ratio 6,5408			
PROPELLER Installation Strut PRD 0,440 Type Solid 3 blades PBW 0,165 PIPA 0,0240			CENTERBOARD N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	685,9			772,5		
Time On Time	0,8748			0,8738		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	880,7	618,5	510,9	1156,8	786,2	625,1
Time on Time	0,7664	1,0914	1,3211	0,5835	0,8586	1,0798

BOAT	
Name TRIADA	Sail Nr GRE-1793
File GR1793	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 22/02/2017		SG	
FFM	FF	1,641	SFFP 0,500
FAM	FA	1,238	SAFP 12,280
LCF from stem on CL / on sheer		7,180 / 7,469	
Maximum beam station from stem		7,993	
RM Measured		232,5kg·m	
RM Default		229,6kg·m	
Limit of positive stability / Stab.Index		110,8° / 114,9	
Freeboard at mast at 5,279		1,414	

RIG			
Forestay Tension Fixed	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler Yes		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 16,180	E 5,214	MDT1 0,135	MW
IG 16,653	J 5,279	MDL1 0,255	GO
ISP 18,053	SFJ 0,000	MDT2	BD
BAS 1,953	SPL	MDL2	MWT
FSP -3,000	TPS	TL -3,000	MCG



World Leader in Rating Technology

2017 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0,440		
Type Solid 3 blades	PBW 0,165		
Twin Screw No	PIPA 0,0240		
ST1 0,048	ST3 0,175	ST5 0,325	
ST2 0,175	ST4 0,110	EDL 3,345	

Certificate

Number **001199**
 ORC Ref **GRE01006901**
 Issued On **21/3/2017**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**



COMMENTS	
Builder's declared displacement.	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M01	0,045	0,63	1,23	2,50	3,84	41,24	VAFIAS	01/03/2017	KARATISS	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H01	0,06	0,59	1,13	2,40	3,78	5,26	13,93	100%	34,91			VAFIAS	01/03/2017	TECHNIQUE	Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT	
Name	TRIADA
Sail Nr	GRE-1793
Certificate Number	001199
Issued On	21/3/2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1305,5	1044,4	906,0	822,2	759,8	722,8	708,0
52°	824,1	667,8	583,0	528,3	493,0	474,7	465,7
60°	759,1	622,5	544,3	496,3	470,4	456,5	446,6
75°	708,0	585,5	512,7	474,2	454,9	441,8	423,0
90°	709,8	585,8	512,0	472,1	451,8	438,0	410,1
110°	792,2	634,2	545,3	489,0	459,9	442,6	413,8
120°	852,5	674,2	575,4	509,0	470,6	449,8	420,6
135°	984,1	758,8	636,1	557,5	501,9	468,8	435,0
150°	1148,5	870,5	714,4	617,3	549,4	499,6	449,8
Run VMG	1299,6	977,8	792,2	675,0	595,1	535,7	464,1

Selected Courses							
Windward / Leeward	1302,5	1011,1	849,1	748,6	677,5	629,3	586,1
Circular Random	1039,6	815,2	688,4	610,2	559,8	526,5	488,5
Ocean for PCS	1289,4	964,3	777,1	660,2	583,3	530,5	463,1
Non Spinnaker	1039,6	815,2	688,4	610,2	559,8	526,5	488,5

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	46,5°	45,3°	44,6°	44,6°	44,8°	44,3°	43,9°
Beat VMG	2,76	3,45	3,97	4,38	4,74	4,98	5,08
52°	4,37	5,39	6,17	6,81	7,30	7,58	7,73
60°	4,74	5,78	6,61	7,25	7,65	7,89	8,06
75°	5,08	6,15	7,02	7,59	7,91	8,15	8,51
90°	5,07	6,14	7,03	7,63	7,97	8,22	8,78
110°	4,54	5,68	6,60	7,36	7,83	8,13	8,70
120°	4,22	5,34	6,26	7,07	7,65	8,00	8,56
135°	3,66	4,74	5,66	6,46	7,17	7,68	8,28
150°	3,13	4,14	5,04	5,83	6,55	7,21	8,00
Run VMG	2,77	3,68	4,54	5,33	6,05	6,72	7,76
Gybe Angles	176,8°	177,6°	178,6°	179,2°	179,5°	179,6°	179,9°