



World Leader in Rating Technology

2016 ORC Club Certificate

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

Certificate
 Number **F00384**
 Issued On **5/10/2016**
 ORC Ref **GRE01006613**
 VPP Ver. **2016 1.01**
 Valid until **28/2/2017**

Crew Weight
 Declared **620kg**
 Default* **604kg**
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	684,5	0,8766
Non Spin OSN	664,0	0,9037
N/S Perf. Line	8,1	0,569

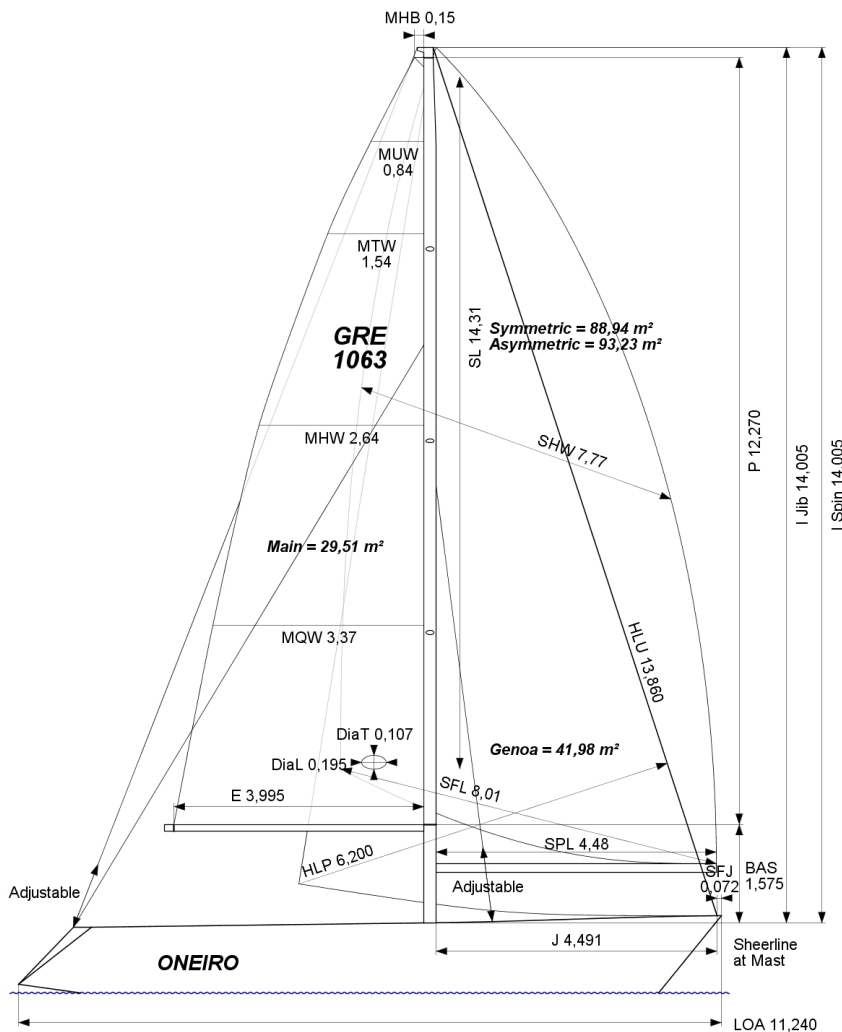
Sails Limitations
 Headsails **6** Spinnakers **3**

Spinnaker configuration
 Symmetric: **Yes** **88,94**
 Asymmetric: **Yes** **93,23**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
 CDL = **8,454**

Stability
 LPS (Measured): **113,4°**
 Stability Index: **112,2**
 OSR Category: **2**

Owner



BOAT	GPH	HULL
Name ONEIRO Sail Nr GRE-1063	655,1	Data File GR1063.dxt LOA 11,240m Offset File G1086.BOF MB 3,810m Displacement 5,928kg Draft 1,910m
CLASS Class SUNSHINE 38 Designer A.CASTRO Builder JEANNEAU Series 01/1982 Age Date 01/1989 Age Allowance 0,488%		IMS Division Cruiser/Racer Dynamic All. 0,281% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9,282m VCGD -0,115m Sink 18,41kg/mm RL 7,625m VCGM 0,097m WS 26,02m² LSM0 9,126m Displacement/Length ratio 7,7995
PROPELLER Type Enter PIPA directly PIPA 0,0005		Water Ballast 0 Trim Tab No
SCORING OPTIONS		CENTERBOARD N/A
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	636,2	710,7
Time On Time	0,9431	0,9497
Performance Line	PLT 0,628 PLD 30,3	PLT 0,757 PLD 170,2
Triple Number	Low 0,8893 Medium 1,1668 High 1,3224	Low 0,6828 Medium 0,9397 High 1,1049

BOAT	
Name ONEIRO	Sail Nr GRE-1063
File GR1063.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 29/11/2009	SG	1,0280
FFM 1,222	FF 1,218	SFFP 0,716
FAM 1,047	FA 1,053	SAFP 10,076
W1 71,4	PD1 264,0	WD 12,080
W2 71,4	PD2 264,0	GSA 41,9
W3 71,4	PD3 264,0	RSA 6082,1
W4 71,4	PD4 264,0	PLM 2106,0
LCF from stem on CL / on sheer		6,025 / 6,303
Maximum beam station from stem		6,550
RM Measured		119,6kg·m
RM Default		127,5kg·m
Limit of positive stability / Stab.Index		113,4° / 112,2
Freeboard at mast at 4,563		1,120

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay Adjustable	Runners 1		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12,270	E 3,995	MDT1 0,107	MW 0,160
IG 14,005	J 4,491	MDL1 0,195	GO 0,200
ISP 14,005	SFJ 0,072	MDT2 0,100	BD 0,102
BAS 1,575	SPL 4,481	MDL2 0,150	MWT
FSP 0,072	TPS	TL 1,400	MCG



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2016 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

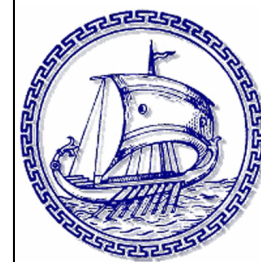
PROPELLER	
Type	Enter PIPA directly
PIPA	0,0005

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COMMENTS

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,150	0,84	1,54	2,64	3,37	29,51	30,06	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	88,94		SL · (SFL + 4·SHW) / 6	
	13,74	13,74	13,74	7,71	8,00				
Asymmetric	SLU	SLE	SL	SHW	SFL	93,23		AS · (SFL + 4·SHW) / 6	
	14,57	14,05	14,31	7,77	8,01				

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
0,09	0,75	1,46	2,95	4,54	6,20	13,86	41,98			12/12/2009	Pentex	G1-LIGHT
0,07	0,71	1,37	2,74	4,13	5,60	13,39	37,11			12/12/2009	Pentex	G2
0,08	0,52	1,00	1,96	2,96	3,79	13,87	27,11			12/12/2009	Pentex	G3
					2,98	10,60	16,08			12/12/2009	Unknow	G4

MEASUREMENT INVENTORY				
Measurer KALATZIS GRE-21				
Date 29/11/2009				
Comment				
Id	Item	Weight	Distance	VCG Description
+	Ancher	18,0	9,80	S-DANFORTH
+	Chain	10,0	9,80	S
+	Toots	9,0	5,70	S
Id	Item	Maker	Model	
1	Engine	YANMAR	3GM30	
Id	Item	Weight Description		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
F	Tank	FUEL	INOX	80,0				5,0	S J+1.70
W1	Tank	WATER	PVC HARD	90,0	5,30			0,0	S
W2	Tank	WATER	PVC HARD	90,0	5,30			0,0	P
W3	Tank	WATER	PVC HARD	45,0	4,10			0,0	P
Id	Item	Weight	Distance	VCG Description					
1	Battery	44,0	7,00	143Ah C					
2	Battery	44,0	7,80	143Ah P					
3	Battery	35,0	8,90	110Ah P					
4	Battery	20,0	5,60	55Ah P					



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ORC Club Certificate Appendix

BOAT

Name **ONEIRO** Certificate Number **F00384**
 Sail Nr **GRE-1063** Issued On **5/10/2016**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1140,5	945,1	835,9	764,7	731,9	715,1	705,6
52°	734,5	615,8	548,2	519,0	506,3	500,1	495,4
60°	687,2	577,9	526,6	503,9	491,2	484,4	478,7
75°	648,2	549,3	511,0	490,9	475,7	463,3	450,4
90°	650,6	551,0	508,8	488,6	475,5	460,6	435,7
110°	668,7	550,5	505,1	480,1	457,9	442,2	426,0
120°	690,4	566,1	511,9	485,5	462,8	440,7	409,5
135°	764,3	621,8	537,7	502,0	478,9	457,2	416,4
150°	903,6	714,4	603,5	533,7	501,8	480,2	440,1
Run VMG	1043,4	825,0	696,3	608,4	550,6	512,6	469,8

Selected Courses

Windward / Leeward	1092,0	885,1	766,1	686,6	641,2	613,9	587,7
Circular Random	909,4	731,5	635,3	578,8	543,8	521,0	493,9
Ocean for PCS	1118,5	860,8	714,6	624,7	566,5	526,2	471,6
Non Spinnaker	961,7	768,7	663,0	600,2	561,0	535,4	504,2

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	44,6°	43,3°	43,5°	42,2°	40,8°	40,0°	39,7°
Beat VMG	3,16	3,81	4,31	4,71	4,92	5,03	5,10
52°	4,90	5,85	6,57	6,94	7,11	7,20	7,27
60°	5,24	6,23	6,84	7,14	7,33	7,43	7,52
75°	5,55	6,55	7,05	7,33	7,57	7,77	7,99
90°	5,53	6,53	7,08	7,37	7,57	7,82	8,26
110°	5,38	6,54	7,13	7,50	7,86	8,14	8,45
120°	5,21	6,36	7,03	7,42	7,78	8,17	8,79
135°	4,71	5,79	6,70	7,17	7,52	7,87	8,65
150°	3,98	5,04	5,97	6,75	7,17	7,50	8,18
Run VMG	3,45	4,36	5,17	5,92	6,54	7,02	7,66
Gybe Angles	146,6°	150,5°	151,1°	156,3°	174,4°	180,0°	180,0°