



World Leader in Rating Technology

2016 ORC Club Certificate

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

Certificate
 Number **000357**
 Issued On **15/4/2016**
 ORC Ref **GRE01005674**
 VPP Ver. **2016 1.01**
 Valid until **28/2/2017**

Crew Weight
 Declared **480kg**
 Default* **610kg**
 Non Manual Pwr **No**

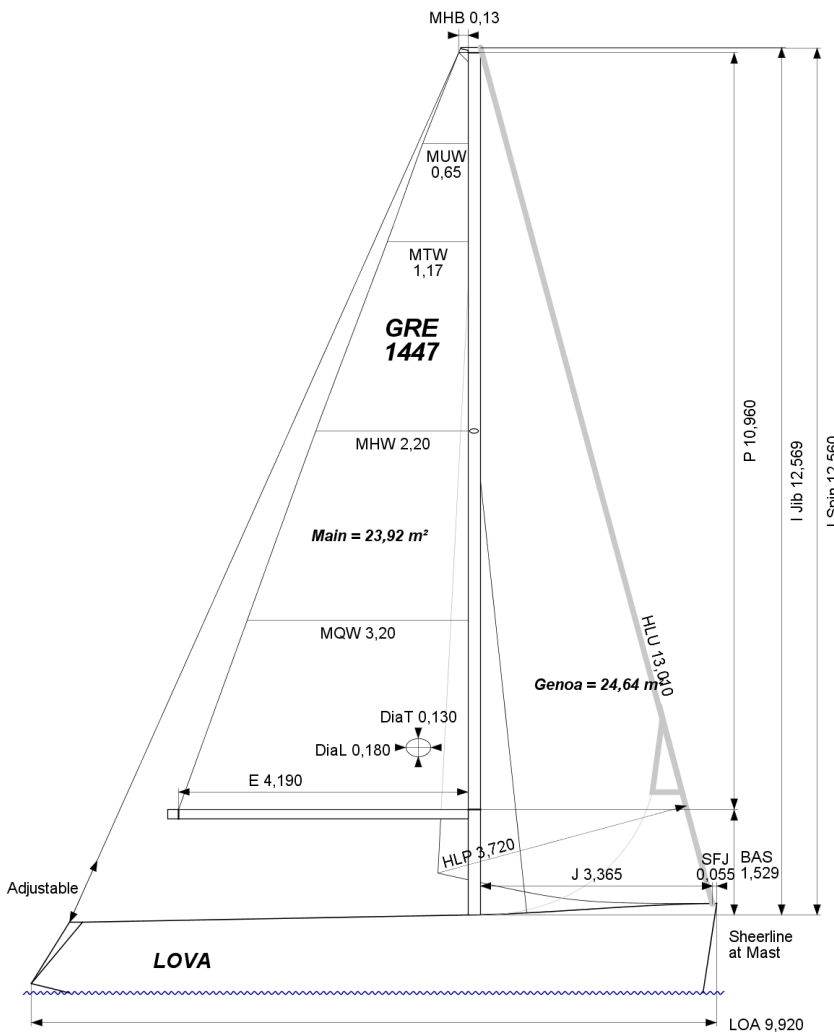
Special Scoring
 ToD ToT
 Non Spin GPH **775,5 0,7737**
 Non Spin OSN **745,1 0,8053**
 N/S Perf. Line **-30,4 0,461**

Sails Limitations
 Headsails **1** Spinnakers **0**
Dacron Sails
 Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length
 CDL = **7,448**

Stability
 LPS (Estimated): **116,1°**
 Stability Index: **117,3**
 OSR Category: **N/A**

Owner



BOAT		GPH		HULL	
Name LOVA Sail Nr GRE-1447		775,5		Data File GR1447.dxt	LOA 9,920m
CLASS		COMMENTS		Offset File cldu325s.off	
Class DUFOUR GIBSEA33 Designer JAKOPIN & JAKOPIN Builder DUFOUR Series 01/1998 Age Date 01/2001 Age Allowance 0,488%		Displacement & LOA according to builder's declaration. Estimated offset file.		Displacement 5,200kg	
PROPELLER		CENTERBOARD		Draft 1,578m	
Installation Shaft exposed Type Solid 3 blades		PRD 0,380 PIPA 0,0180		IMS Division Cruiser/Racer	
SCORING OPTIONS				Dynamic All. 0,422%	
				Fwd Accom. Yes	
				Construction Solid	
				Fiber Rigging No	
				Aramid Core No	
				Carbon Rudder No	
				Light Stanchions No	
				IMSL 9,218m	
				VCGD -0,059m	
				Sink 17,31kg/mm	
				RL 5,678m	
				VCGM 0,064m	
				WS 22,87m²	
				LSM0 9,184m	
				Displacement/Length ratio 6,7129	
				Water Ballast 0	
				Trim Tab No	
				COASTAL / LONG DISTANCE	
				WINDWARD / LEEWARD	
				Time On Distance	
				745,1	
				833,1	
				Time On Time	
				0,8053	
				0,8102	
				Performance Line	
				PLT 0,461	
				PLD -30,4	
				PLT 0,512	
				PLD 53,9	
				Triple Number	
				Low 0,7114	
				Medium 1,0008	
				High 1,1967	
				Low 0,5451	
				Medium 0,7965	
				High 0,9938	

BOAT	
Name LOVA	Sail Nr GRE-1447
File GR1447.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 01/01/2013		SG	
FFM	FF	1,282	SFFP 0,354
FAM	FA	1,022	SAFP 9,184
LCF from stem on CL / on sheer		5,457 / 5,701	
Maximum beam station from stem		6,102	
RM Measured		102,8kg·m	
RM Default		99,8kg·m	
Limit of positive stability / Stab.Index		116,1° / 117,3	
Freeboard at mast at 3,420		1,127	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay Fixed	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 10,960	E 4,190	MDT1 0,130	MW
IG 12,569	J 3,365	MDL1 0,180	GO
ISP 12,560	SFJ 0,055	MDT2 0,130	BD 0,130
BAS 1,529	SPL	MDL2 0,180	MWT
FSP -3,000	TPS	TL 0,000	MCG



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Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Shaft exposed	PRD	0,380
Type	Solid 3 blades	PBW	
Twin Screw	No	PIPA	0,0180
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS	
Displacement & LOA according to builder's declaration. Estimated offset file.	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,130	0,65	1,17	2,20	3,20	23,92	24,05	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
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
					3,72	0,00	24,64					* Copied from legacy *



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ORC Club Certificate Appendix

BOAT	
Name LOVA	Certificate Number 000357
Sail Nr GRE-1447	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	1399,2	1125,3	980,1	886,2	814,8	779,9	766,0
52°	886,0	724,1	634,8	574,0	540,3	524,8	517,6
60°	818,3	677,4	593,2	545,0	521,0	508,0	498,9
75°	764,8	637,7	561,1	525,4	506,5	492,6	472,8
90°	769,1	641,4	563,7	526,8	507,2	492,6	461,6
110°	861,7	697,5	602,3	544,3	516,0	498,1	466,0
120°	925,3	736,9	632,2	561,8	525,5	505,1	473,2
135°	1058,9	821,2	694,1	610,6	553,6	522,9	488,7
150°	1230,8	935,5	772,4	672,2	599,9	550,0	503,8
Run VMG	1385,2	1044,0	850,2	729,8	647,1	584,4	517,5

Selected Courses							
Windward / Leeward	1392,2	1084,6	915,1	808,0	731,0	682,1	641,7
Circular Random	1122,5	883,7	749,5	667,4	614,8	580,5	541,9
Ocean for PCS	1386,0	1041,2	843,2	720,1	639,9	585,3	516,2
Non Spinnaker	1122,5	883,7	749,5	667,4	614,8	580,5	541,9

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	46,1°	44,6°	43,7°	43,9°	43,5°	42,5°	42,0°
Beat VMG	2,57	3,20	3,67	4,06	4,42	4,62	4,70
52°	4,06	4,97	5,67	6,27	6,66	6,86	6,96
60°	4,40	5,31	6,07	6,61	6,91	7,09	7,22
75°	4,71	5,65	6,42	6,85	7,11	7,31	7,61
90°	4,68	5,61	6,39	6,83	7,10	7,31	7,80
110°	4,18	5,16	5,98	6,61	6,98	7,23	7,73
120°	3,89	4,89	5,69	6,41	6,85	7,13	7,61
135°	3,40	4,38	5,19	5,90	6,50	6,88	7,37
150°	2,92	3,85	4,66	5,36	6,00	6,55	7,15
Run VMG	2,60	3,45	4,23	4,93	5,56	6,16	6,96
Gybe Angles	169,9°	170,7°	171,8°	173,1°	173,6°	174,3°	177,6°