



World Leader in Rating Technology

2018 ORC Club Certificate

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

Certificate
 Number **F00831**
 Issued On **16/3/2018**
 ORC Ref **GRE01009224**
 VPP Ver. **2018 1.00**
 Valid until **28/2/2019**

Crew Weight

Default	686kg
Maximum	560kg
Minimum*	420kg

*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 665,4	0,9017
Non Spin OSN 645,0	0,9302

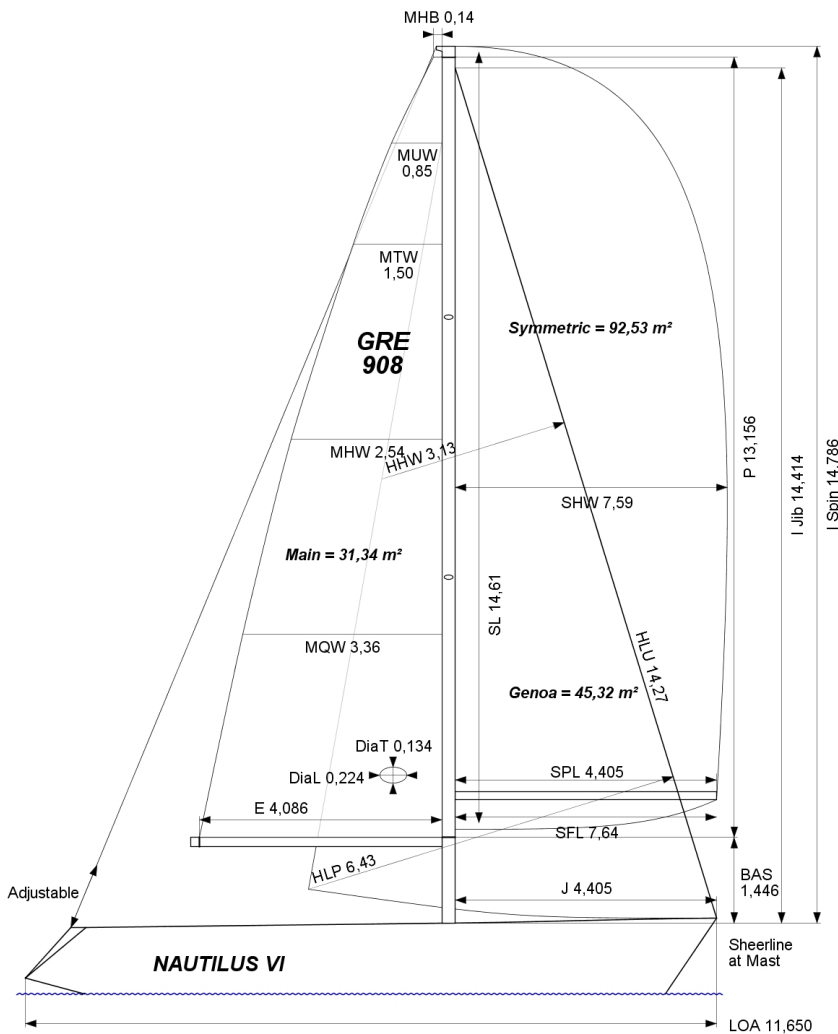
Sails Limitations
 Headsails **5** Spinnakers **3**

Spinnaker configuration
 Symmetric: **Yes** **92,53**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
 CDL = **9,147**

Stability (Measured)
 Limit Positive Stab.: **115,1°**
 Stability Index: **115,4**

Owner



BOAT Name NAUTILUS VI Sail Nr GRE-908		GPH 636,7	HULL Data File GR908 LOA 11,650m Offset File DUF_38C.BOF MB 3,852m Displacement 6,516kg Draft 1,878m			
CLASS Class DUFOUR 38 classic Designer Chabaud/Poncin Builder DUFOUR SA Series 02/1997 Age Date 05/1999 Age Allowance 0,487%		IMS Division Cruiser/Racer Dynamic All. 0,268% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No				
COMMENTS		IMSL 10,043m VCGD 0,024m Sink 21,10kg/mm RL 8,250m VCGM 0,049m WS 26,82m² LSM0 9,978m Displacement/Length ratio 6,5592				
PROPELLER Installation Strut PRD 0,430 Type Folding 2 blades PBW 0,111 PIPA 0,0012		Water Ballast 0 Trim Tab No BLR Index 0,0000				
SCORING OPTIONS		CENTERBOARD N/A				
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	617,5			689,5		
Time on Time	0,9717			0,9789		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	735,9	562,5	499,4	948,0	695,5	599,1
Time on Time	0,9172	1,2000	1,3515	0,7120	0,9705	1,1267

BOAT	
Name NAUTILUS VI	Sail Nr GRE-908
File GR908	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 09/04/2006		SG 1,0290	
FFM 1,270	FF 1,297	SFFP 0,900	
FAM 1,118	FA 1,114	SAFP 10,625	
W1 102,0	PD1 265,0	WD 11,600	
W2 102,0	PD2 265,0	GSA 28,3	
W3 102,0	PD3 265,0	RSA 5674,5	
W4 102,0	PD4 265,0	PLM 2115,0	
LCF from stem on CL / on sheer		6,299 / 6,574	
Maximum beam station from stem		6,960	
RM Measured		164,4kg·m	
RM Default		152,0kg·m	
Limit of positive stability / Stab.Index		115,1° / 115,4	
Freeboard at mast at 4,405		1,192	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
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 13,156	E 4,086	MDT1 0,134	MW 0,224
IG 14,414	J 4,405	MDL1 0,224	GO 0,264
ISP 14,786	SFJ 0,000	MDT2 0,134	BD 0,150
BAS 1,446	SPL 4,405	MDL2 0,224	MWT
FSP 0,070	TPS	TL 0,000	MCG



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2018 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0,430		
Type Folding 2 blades	PBW 0,111		
Twin Screw No	PIPA 0,0012		
ST1 0,044	ST3 0,170	ST5 0,290	
ST2 0,170	ST4 0,044	EDL 2,500	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0,140	0,85	1,50	2,54	3,36	31,34	KALATZIS	06/03/2016	KAKITSIS	Dacron						
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1b	0,07	0,77	1,53	3,13	4,79	6,43	14,27	146%	45,32			KALATZIS	06/03/2016	KAKITSIS	Kevlar	
1	0,08	0,74	1,45	2,94	4,52	6,18	14,01	140%	42,24			KALATZIS	06/09/2010	ZOUGANELI	Pentex	2 (ONEIRO)
2	0,09	0,75	1,46	2,95	4,54	6,20	13,86	141%	41,98			KALATZIS	12/12/2009	ZOUGANELI	Pentex	2 (ONEIRO)
3	0,06	0,54	1,06	2,20	3,45	4,72	14,25	107%	32,51			KALATZIS	11/07/2014	KAKITSIS	Dacron	2.5
4	0,06	0,45	0,85	1,69	2,52	3,33	13,00	76%	21,92	Y		SYRIGOY	27/03/2010		Dacron	3.5 (BRINIS)
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	14,61	14,61	14,61	7,59	7,64	92,53	KALATZIS	11/07/2014	KAKITSIS	Nylon	HEAVY					
1a	14,70	14,70	14,70	7,58	7,42	92,46				Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer THEODOSSIS				
Date 09/04/2006				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	16,0	0,80	Fortress
2	Anchor	16,0	7,70	Fortress
4	Chain	95,0	0,80	70m x 8mm
2	Chain	20,0	7,70	7m x 8mm +
4	Tools	19,0	6,40	
2	Tools	60,0	10,08	Tools (2+3kg)
Id	Item	Maker	Model	
1	Engine	Volvo	40hp	
Id	Item	Weight	Description	
4	Deck Gear	5,0		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description	
1	Tank	Fuel	PVC hard	140,0	9,40			0,0	
2	Tank	Water	PVC hard	150,0	1,80			0,0	
3	Tank	Water	PVC hard	150,0	9,40			0,0	
Id	Item	Weight	Distance	VCG	Description				
1	Battery	26,0	6,60	100Ah					
2	Battery	26,0	6,60	100Ah					
3	Battery	20,0	7,60	75Ah					
1	Misc	18,0	1,00	Anchor windlass					
2	Misc	10,0	9,00	Bimini					
3	Misc	20,0	5,90	Water boiler					



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ORC Club Certificate Appendix

BOAT			
Name	NAUTILUS VI	Certificate Number	F00831
Sail Nr	GRE-908	Issued On	16/3/2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1079,3	900,3	795,5	735,2	711,3	700,9	701,4
52°	705,7	596,5	533,7	506,7	494,7	489,7	487,4
60°	668,2	566,8	515,5	493,7	481,8	475,8	472,1
75°	640,9	545,8	503,3	482,8	469,1	458,1	446,2
90°	646,3	548,2	501,6	478,0	464,7	450,5	427,2
110°	663,7	545,3	492,8	467,8	447,3	429,3	410,7
120°	680,1	558,3	498,8	471,4	449,2	428,4	394,8
135°	745,2	606,4	525,6	487,6	464,8	443,5	403,0
150°	875,3	694,6	589,6	521,9	488,0	466,6	427,2
Run VMG	1010,7	802,0	680,1	597,3	541,1	500,5	457,4
Selected Courses							
Windward / Leeward	1045,0	851,2	737,8	666,2	626,2	600,7	579,4
Circular Random	881,1	709,9	617,5	563,5	530,5	509,3	484,8
Coastal / Long Distance	1041,6	799,3	663,5	581,0	539,7	508,7	460,8
Non Spinnaker	932,4	746,3	644,6	584,5	547,3	523,4	495,2

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	43,3°	41,9°	41,9°	40,8°	40,0°	39,6°	40,8°
Beat VMG	3,34	4,00	4,53	4,90	5,06	5,14	5,13
52°	5,10	6,04	6,75	7,10	7,28	7,35	7,39
60°	5,39	6,35	6,98	7,29	7,47	7,57	7,63
75°	5,62	6,60	7,15	7,46	7,67	7,86	8,07
90°	5,57	6,57	7,18	7,53	7,75	7,99	8,43
110°	5,42	6,60	7,31	7,70	8,05	8,39	8,77
120°	5,29	6,45	7,22	7,64	8,01	8,40	9,12
135°	4,83	5,94	6,85	7,38	7,75	8,12	8,93
150°	4,11	5,18	6,11	6,90	7,38	7,71	8,43
Run VMG	3,56	4,49	5,29	6,03	6,65	7,19	7,87
Gybe Angles	146,0°	150,1°	151,5°	155,4°	170,9°	180,0°	180,0°