

BOAT Name NEOMANIA Sail Nr ITA-17504	GPH 587.9	HULL Length Overall 10.800m Maximum Beam 3.636m Displacement 4,467kg Draft 2.102m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.048% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class NEO 350 Designer CECCARELLI Builder NEO YACHT'S & COMP Series 07/2018 Age 04/2019 Age Allowance 0.033% Offset File I17504.off - 08/04/2019 18:11:10 Measurement by - 14/05/2019		IMSL 9.991m VCGD 0.014m Sink 19.13kg/mm RL 9.498m VCGM 0.137m WS 23.70m² LSM0 9.622m Displacement/Length ratio 5.0144



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	571.5			640.3		
Time on Time	1.0498			1.0541		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	670.0	522.0	464.6	864.7	641.8	562.7
Time on Time	1.0074	1.2932	1.4528	0.7806	1.0518	1.1996

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	985.0	810.2	717.9	685.2	672.7	666.2	656.5
52°	644.6	542.6	497.4	482.1	476.6	474.1	466.4
60°	609.3	521.1	484.9	468.8	462.3	459.0	450.9
75°	583.0	506.9	476.0	455.4	440.2	432.7	427.1
90°	590.4	501.4	468.1	453.3	432.3	413.4	394.0
110°	590.1	496.3	459.2	429.5	409.2	394.4	371.3
120°	608.0	505.6	465.8	434.3	403.3	376.7	346.2
135°	678.2	548.0	486.9	455.8	425.5	396.1	335.1
150°	802.9	637.7	539.9	487.3	458.1	430.3	376.0
Run VMG	927.1	736.4	623.0	553.8	506.1	472.3	420.4

Certificate
Number **175041**
ORC Ref **ITA00052989**
Issued On **01/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **652kg**
Maximum **626kg**
Minimum* **470kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **598.9 1.0018**
Double H.OSN **584.0 1.0274**
Non Spin GPH **624.7 0.9605**
Non Spin OSN **607.1 0.9883**

Selected Courses							
Windward / Leeward	956.0	773.3	670.5	619.5	589.4	569.2	538.4
Circular Random	806.6	652.5	570.5	523.2	493.7	473.4	445.0
Coastal / Long Distance	953.1	726.9	606.8	542.5	505.7	474.2	423.3
Non Spinnaker	872.4	699.1	605.3	550.4	516.1	493.2	462.6

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

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	42.9°	41.3°	39.9°	38.5°	38.6°	38.3°	38.6°
Beat VMG	3.65	4.44	5.01	5.25	5.35	5.40	5.48
52°	5.58	6.64	7.24	7.47	7.55	7.59	7.72
60°	5.91	6.91	7.42	7.68	7.79	7.84	7.98
75°	6.17	7.10	7.56	7.91	8.18	8.32	8.43
90°	6.10	7.18	7.69	7.94	8.33	8.71	9.14
110°	6.10	7.25	7.84	8.38	8.80	9.13	9.70
120°	5.92	7.12	7.73	8.29	8.93	9.56	10.40
135°	5.31	6.57	7.39	7.90	8.46	9.09	10.74
150°	4.48	5.64	6.67	7.39	7.86	8.37	9.58
Run VMG	3.88	4.89	5.78	6.50	7.11	7.62	8.56
Gybe Angles	143.1°	147.3°	150.7°	157.0°	173.4°	180.0°	180.0°

Class Division Length
CDL = **9.746**

Storm Sails Areas
Heavy Weather Jib **27.40**
Storm Jib (JL=9.26) **10.15**
Storm Trysail **11.56**

Owner

BOAT	
Name NEOMANIA	Sail Nr ITA-17504
File I17504	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	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 14.050	E 4.700 MDT1 0.100 MW 0.190
IG 14.188	J 4.310 MDL1 0.195 GO 0.207
ISP 15.673	SFJ 0.400 MDT2 0.075 BD 0.220
BAS 1.598	SPL 4.340 MDL2 0.155 MWT 119.10
FSP 0.076	TPS 5.450 TL 1.660 MCG 5.490

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 08/05/2019		SG 1.0250	
FFM 1.247	FF 1.247	SFFP 0.670	
FAM 0.949	FA 0.950	SAFP 10.670	
W1 67.5	PD1 548.9	WD 11.910	
W2 67.5	PD2 547.4	GSA 1.0	
W3 67.5	PD3 543.1	RSA 1.0	
W4 67.5	PD4 542.2	PLM 9000.0	
LCF from stem on CL / on sheer		5.949 / 6.221	
Maximum beam station from stem		8.020	
RM Measured		116.1kg-m	
RM Default		122.2kg-m	
Limit of positive stability / Stab.Index		114.1° / 110.5	
Freeboard at mast at 4.710		1.237	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.435		
Type Folding 2 blades	PBW 0.138		
Twin Screw No	PIPA 0.0037		
ST1 0.065	ST3 0.180	ST5 0.270	
ST2 0.180	ST4 0.110	EDL 1.401	

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COMMENTS	
ACL	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.300	1.04	1.75	2.91	3.86	38.73	39.38	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	15.68	15.68	15.68	7.81	7.47	101.16		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	16.74	14.06	15.40	7.26	7.97	94.99		AS · (SFL + 4·SHW) / 6	

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	0.75	1.35	2.41	3.44	4.42	14.38	33.85	Y	N	08/05/2019	Carbon	J1

MEASUREMENT INVENTORY				
Measurer 162				
Date 08/05/2019				
Comment Perfect weather conditions				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	VOLVO PENTA	20 HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

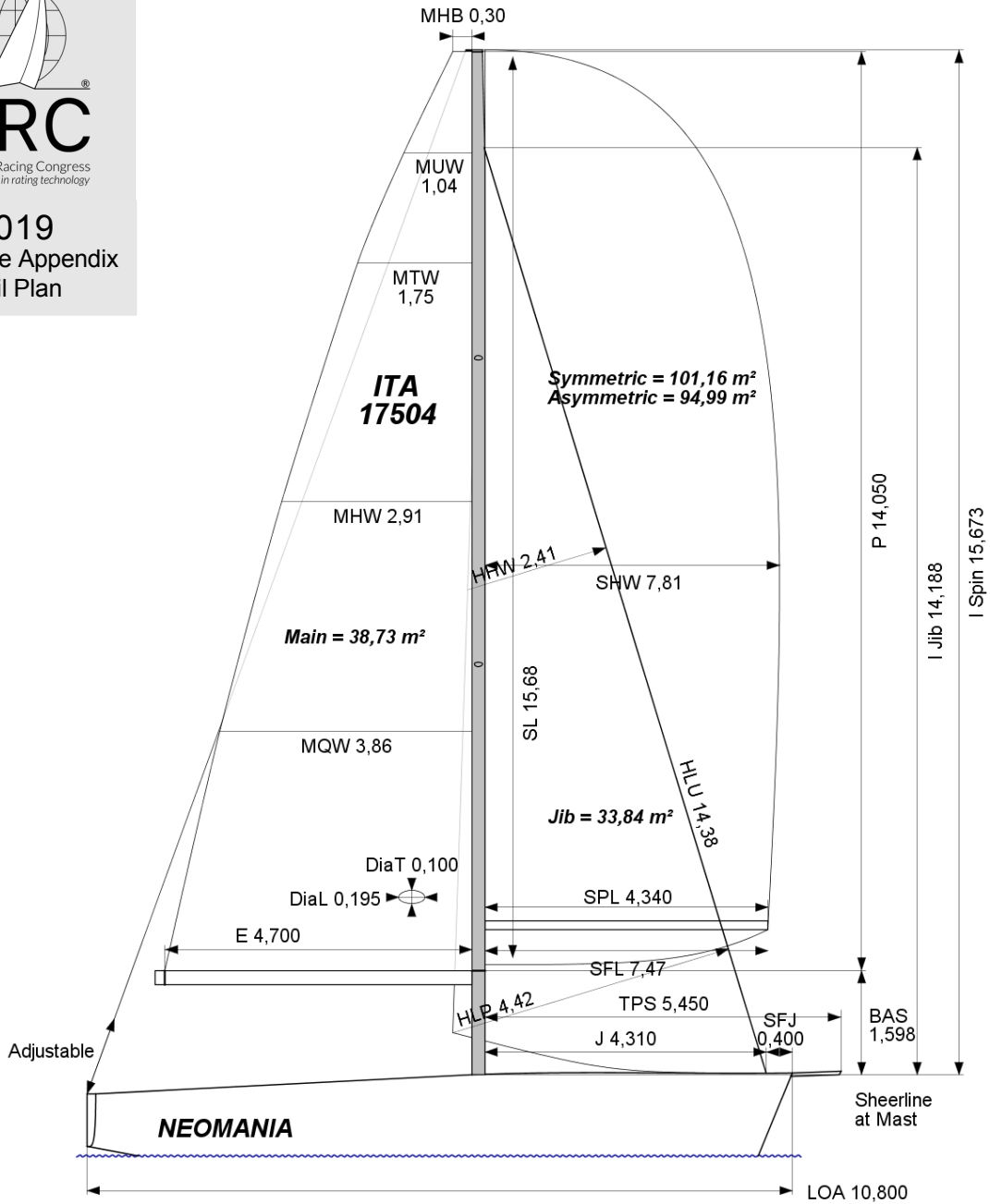
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
A	Tank	WATER	PVC	100.0	3.00	0.00	0-0 SX
B	Tank	WATER	PVC	100.0	3.00	0.00	0-0 DX
C	Tank	FUEL	PVC	85.0	7.10	0.00	40-0 L
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
B	Ballast	37.0	6.10	0.00 2 PANI DX-SX			
A	Ballast	74.0	5.90	0.00 4 PANI DX-SX			
A	Battery	15.0	7.55	0.00 40 Ah SX ENG			
B	Battery	32.0	7.55	0.00 180 Ah SX SERV			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.30	1.04	1.75	2.91	3.86	38.74		08/05/2019	BANKS	Carbon	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.12	0.75	1.35	2.41	3.44	4.42	14.38	103%	33.85	Y	N		08/05/2019	BANKS	Carbon	J1

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	15.68	15.68	15.68	7.81	7.47	101.17		14/05/2019	BANKS	Nylon	S1.5-2
C	15.36	15.36	15.36	7.74	7.40	98.21		08/05/2019	BANKS	Nylon	S1.5

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
C	16.74	14.06	15.40	7.26	7.97	95.00	asym		14/05/2019	BANKS	Nylon	A1