

BOAT
Name NAUTILUS WAVE Sail Nr ITA-16417

GPH
557.4

HULL
Length Overall 12.860 m
Maximum Beam 3.798 m
Displacement 5,911 kg
Draft 2.323 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0.119%
Fwd Accommodation Yes
Hull Construction Carbon
Carbon Rudder Yes
Crew Arm Extension
IMS L 11.732 VCGD -0.197 VCGM -0.001
Sink 23.76 kg/mm Wetted Area 30.19 m²

GENERAL
Class NAUTILUS MARINA 43
Designer COSSUTTI
Builder NAUTILUS MARINE
Series 08/2009
Age 08/2009
Age Allowance 0.130%
Offset File I16417A.OFF - 4/8/2012 22:32:58
Measurement by MAMON-LORET-CUCCOT - 10/11/2011




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SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	557.4			618.3		
Time On Time	1.0764			1.0917		
Performance Line	PLT	PLD		PLT	PLD	
	0.865	54.9		0.891	182.4	
Triple Number	Low	Medium	High	Low	Medium	High
	1.0308	1.3767	1.5835	0.7872	1.0818	1.2666

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	971.1	798.7	713.0	667.8	639.5	627.6	638.0
52°	625.3	524.2	465.9	444.3	432.4	425.5	427.9
60°	586.3	494.0	440.5	423.3	413.0	406.6	405.6
75°	556.7	470.3	424.2	398.3	387.6	380.2	372.7
90°	561.9	466.1	428.7	400.3	375.5	359.0	345.7
110°	575.6	469.5	412.1	387.0	368.9	353.0	329.8
120°	594.9	484.8	421.2	385.2	354.6	338.5	310.9
135°	669.2	538.8	454.2	413.5	383.4	354.6	286.7
150°	804.4	633.4	528.1	461.2	421.9	393.6	335.8
Run VMG	928.8	731.4	609.8	531.5	479.5	442.1	388.5

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Selected Courses							
Windward / Leeward	967.9	777.0	671.2	607.3	566.6	541.3	518.6
Circular Random	781.6	625.5	540.2	489.3	457.3	436.2	410.3
Ocean for PCS	833.5	653.1	550.7	486.4	442.6	410.3	363.3
Non Spinnaker	843.1	670.8	575.2	517.3	480.2	455.5	425.1

Crew Weight
Declared 845 kg
Default* 788 kg
Non Manual Power No

Special Scoring
ToD ToT
D. Hand OSN 564.8 1.0622
Non Spin. OSN 594.1 1.0100
N/S Perf. Line 33.1 0.774

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	44.4°	42.8°	42.1°	41.8°	41.2°	40.9°	41.9°
Beat VMG	3.71	4.51	5.05	5.39	5.63	5.74	5.64
52°	5.76	6.87	7.73	8.10	8.32	8.46	8.41
60°	6.14	7.29	8.17	8.51	8.72	8.85	8.88
75°	6.47	7.65	8.49	9.04	9.29	9.47	9.66
90°	6.41	7.72	8.40	8.99	9.59	10.03	10.41
110°	6.25	7.67	8.74	9.30	9.76	10.20	10.92
120°	6.05	7.43	8.55	9.35	10.15	10.64	11.58
135°	5.38	6.68	7.93	8.71	9.39	10.15	12.56
150°	4.48	5.68	6.82	7.81	8.53	9.15	10.72
Run VMG	3.88	4.92	5.90	6.77	7.51	8.14	9.27
Gybe Angles	141.6°	145.6°	148.7°	151.4°	160.0°	164.7°	165.3°

Sails Limitations
Genoas 0 Jibs 5 Spinnakers 4
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 35.57
Storm Jib (JL=10.55) 13.17
Storm Trysail 15.31

Owner

BOAT	
Name NAUTILUS WAVE	Sail Nr ITA-16417
File I16417.dxt	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 15.650	E 5.590	MDT1 0.138	TL 1.550
IG 16.105	J 5.110	MDL1 0.270	MWT 204.00
ISP 16.525	SFJ 0.480	MDT2 0.130	MCG 6.840
SPS 3.475	SPL 5.600	MDL2 0.230	CPW
BAS 1.975	TPS	MW 0.260	BD 0.300
BAL 0.150	FSP 0.104	GO 0.300	BWT

MIZZEN RIG AND SAILS	
N/A	


COMMENTS

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 10/11/2011		SG 1.0020	
FFM 1.461	FF 1.468	SFFP 0.201	
FAM 1.111	FA 1.116	SAFP 12.638	
W1 86.000	PD1 532.7	WD 13.910	
W2 86.000	PD2 533.8	GSA 1.0	
W3 86.000	PD3 537.4	RSA 1.0	
W4 86.000	PD4 537.0	PLM 9000.0	
Max. beam station / LCF from stem		8.572 / 6.844	
RM Measured / Default		176.0 / 178.4	
Limit of positive stability		120.4°	
Stability Index		120.0	
Freeboard at mast at 5.590		1.303	

PROPELLER			
Installation Strut	PRD 0.460		
Type Feathering 2 blades	PBW 0.120		
Twin Screw No	PIPA 0.0037		
ST1 0.042	ST3 0.180	ST5 0.310	
ST2 0.180	ST4 0.112	EDL 1.640	

WATER BALLAST	
N/A	



CENTERBOARD	
N/A	



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SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0.700	1.43	2.17	3.60	4.66	26.00	53.30	54.46	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0.09	0.89	1.62	2.83	4.01	16.50	5.55	46.52	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF							
	17.60	10.35	9.80					150.19	SL · (SF + 4·SMG) / 6	
Asymmetric Not Available										
Code Zero Not Available										

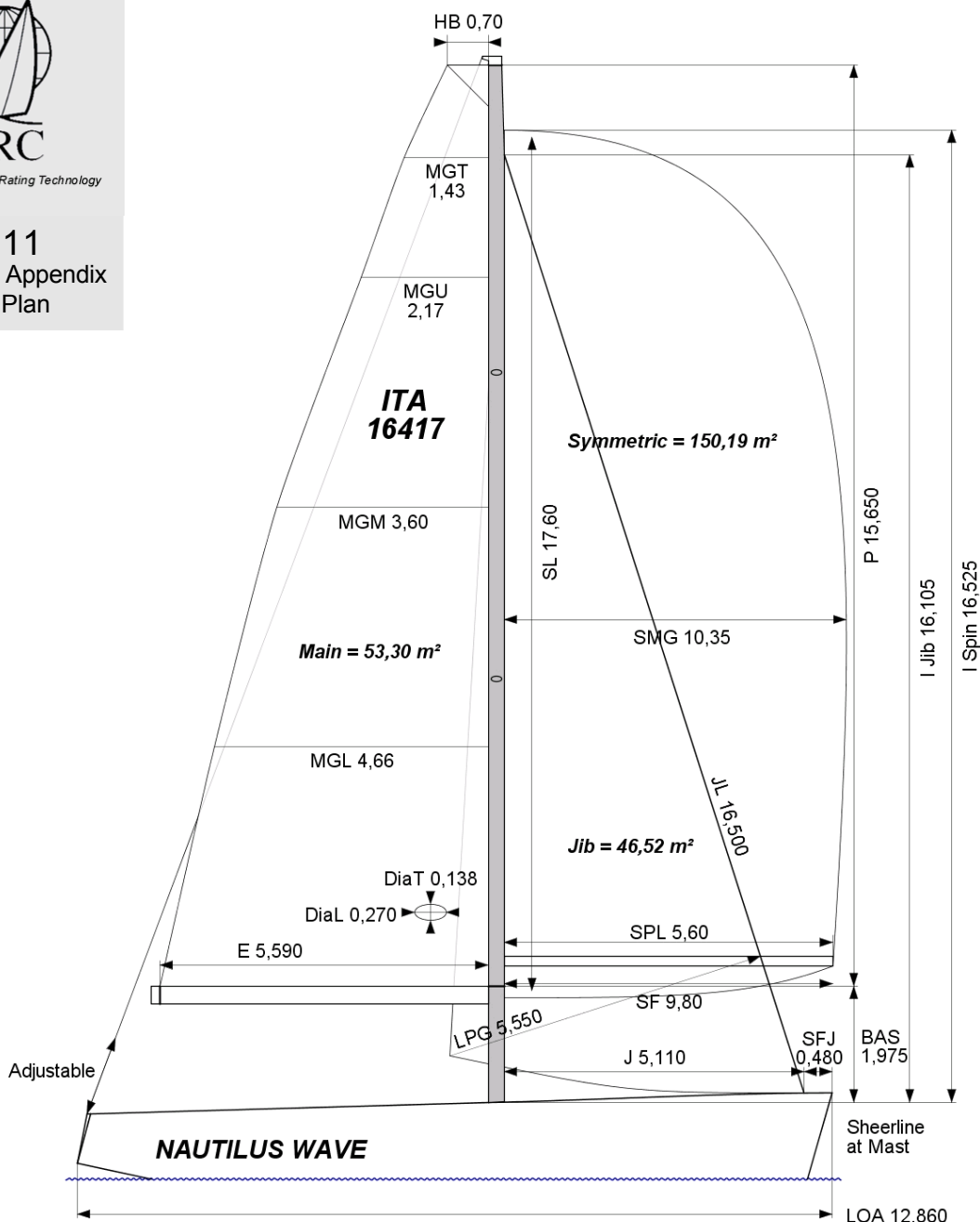
MEASUREMENT INVENTORY				
Measurer LORETANO 124				
Date 10/11/2011				
Comment				
Id	Item	Weight	Distance	VCG Description
A	Anchor	4.5	8.20	
A	Tools	5.0	7.20	
Id	Item	Maker	Model	
A	Engine	YANMAR	40HP	
Id	Item	Weight	Description	
A	Deck Gear	15.0		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
A	Tank	H2O	PVC	80.0	9.70			0.0
B	Tank	FUEL	PVC	190.0	9.70			10.0
Id	Item	Weight	Distance	VCG	Description			
A	Battery	0.0	4.85					
B	Battery	0.0	7.50					
A	Misc	25.0	8.20					DOTAZIONI VARIE



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Sail Plan



SAILS INVENTORY														
MANSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measur	Meas.Date	Manufacture	Material	Comment		
B	0.700	1.43	2.17	3.60	4.66	26.00	53.10	CUCCOTTI	10/05/2011	3F	Carbon			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measur	Meas.Date	Manufacture	Material	Comment
C	0.09	0.89	1.62	2.83	4.01	5.55	16.50	109%	46.53	CUCCOT	08/11/2011		Unknown	
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measur	Meas.Date	Manufacture	Material	Comment					
C	17.60	10.35	9.80	150.19	CUCCOTTI	08/11/2011		Polyester						
D	18.20	9.65	9.86	147.00	CUCCOTTI	08/11/2011		Unknown						
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment		