

BOAT Name SCUGNIZZA Sail Nr ITA-16639	GPH 605.5	HULL Length Overall 11.410m Maximum Beam 3.542m Displacement 4,918kg Draft 1.942m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.166% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class NM38S Designer COSSUTTI Builder NAUTILUS MARINE Series 09/2010 Age 10/2010 Age Allowance 0.195% Offset File I16639F.off - 30/05/2016 18:29:00 Measurement by AVETA-MAUGERI - 25/07/2016		IMSL 10.310m VCGD 0.080m Sink 20.87kg/mm RL 8.545m VCGM 0.203m WS 27.13m² LSM0 9.980m Displacement/Length ratio 4.9476




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SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	588.6			666.1		
Time On Time	1.0193			1.0133		
Performance Line	PLT	PLD		PLT	PLD	
	0.653	12.6		0.831	187.5	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9549	1.2661	1.4461	0.7268	1.0080	1.1751

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1087.0	887.4	778.6	722.3	699.4	689.5	677.4
52°	693.3	572.6	508.1	482.2	473.7	469.7	462.3
60°	642.2	534.9	485.5	464.4	455.7	451.1	443.7
75°	600.0	506.5	469.8	446.7	428.6	420.1	413.8
90°	599.8	506.3	465.6	445.7	423.0	402.1	382.9
110°	612.4	501.6	459.2	427.1	405.3	391.1	367.1
120°	630.3	513.2	465.8	434.4	403.0	375.5	346.8
135°	701.8	561.8	488.9	455.7	426.3	397.6	339.5
150°	841.9	665.2	554.1	488.3	457.5	430.4	378.0
Run VMG	972.1	768.2	639.8	557.8	508.0	471.5	420.1

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Number **166391**
ORC Ref **ITA00020401**
Issued On **26/07/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **870kg**
Default* **686kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	613.4	0.9781
Double H.OSN	598.8	1.0020
Non Spin GPH	637.7	0.9409
Non Spin OSN	619.6	0.9684
N/S Perf. Line	-8.4	0.586

Selected Courses							
Windward / Leeward	1029.5	827.8	709.2	640.1	603.7	580.5	548.8
Circular Random	845.8	677.9	586.7	533.1	499.4	476.8	447.2
Ocean for PCS	1045.4	800.8	661.7	575.7	519.1	479.0	422.3
Non Spinnaker	902.3	718.2	617.2	557.2	519.5	494.4	462.0

Sails Limitations

Headsails	Spinnakers
6	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	45.3°	44.3°	43.9°	42.5°	42.2°	41.8°	41.9°
Beat VMG	3.31	4.06	4.62	4.98	5.15	5.22	5.31
52°	5.19	6.29	7.09	7.47	7.60	7.66	7.79
60°	5.61	6.73	7.41	7.75	7.90	7.98	8.11
75°	6.00	7.11	7.66	8.06	8.40	8.57	8.70
90°	6.00	7.11	7.73	8.08	8.51	8.95	9.40
110°	5.88	7.18	7.84	8.43	8.88	9.20	9.81
120°	5.71	7.01	7.73	8.29	8.93	9.59	10.38
135°	5.13	6.41	7.36	7.90	8.44	9.05	10.60
150°	4.28	5.41	6.50	7.37	7.87	8.36	9.52
Run VMG	3.70	4.69	5.63	6.45	7.09	7.64	8.57
Gybe Angles	139.1°	148.1°	147.9°	155.6°	169.4°	180.0°	180.0°

Class Division Length
CDL = **9.428**

Storm Sails Areas

Heavy Weather Jib **26.97**
Storm Jib (JL=9.19) **9.99**
Storm Triesail **12.29**

Owner

BOAT	
Name SCUGNIZZA	Sail Nr ITA-16639
File I16639.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 26/07/2016		SG 1.0280	
FFM 1.480	FF 1.478	SFFP 0.347	
FAM 1.182	FA 1.183	SAFP 10.720	
W1 92.4	PD1 647.4	WD 12.440	
W2 92.4	PD2 649.8	GSA 1.0	
W3 92.4	PD3 652.5	RSA 1.0	
W4 92.4	PD4 676.9	PLM 9000.0	
LCF from stem on CL / on sheer		6.319 / 6.557	
Maximum beam station from stem		7.480	
RM Measured		137.9kg·m	
RM Default		142.8kg·m	
Limit of positive stability / Stab.Index		113.8° / 112.8	
Freeboard at mast at 4.410		1.373	

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 Yes	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 14.040	E 5.000	MDT1 0.125	MW 0.198
IG 14.070	J 4.410	MDL1 0.198	GO 0.218
ISP 14.250	SFJ 0.000	MDT2 0.094	BD 0.250
BAS 1.550	SPL 4.550	MDL2 0.180	MWT 175.00
FSP 0.088	TPS	TL 1.150	MCG 5.860


MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.405		
Type Folding 2 blades	PBW 0.108		
Twin Screw No	PIPA 0.0029		
ST1 0.051	ST3 0.200	ST5 0.335	
ST2 0.170	ST4 0.088	EDL 2.110	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	




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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.630	1.31	2.05	3.20	4.17	42.89	43.85	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	103.69		SL · (SFL + 4·SHW) / 6	
	15.05	15.05	15.05	8.27	8.26				
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
0.10	0.80	1.43	2.48	3.43	4.44	14.20	33.92	N	N	25/07/2016	Carbon	J2

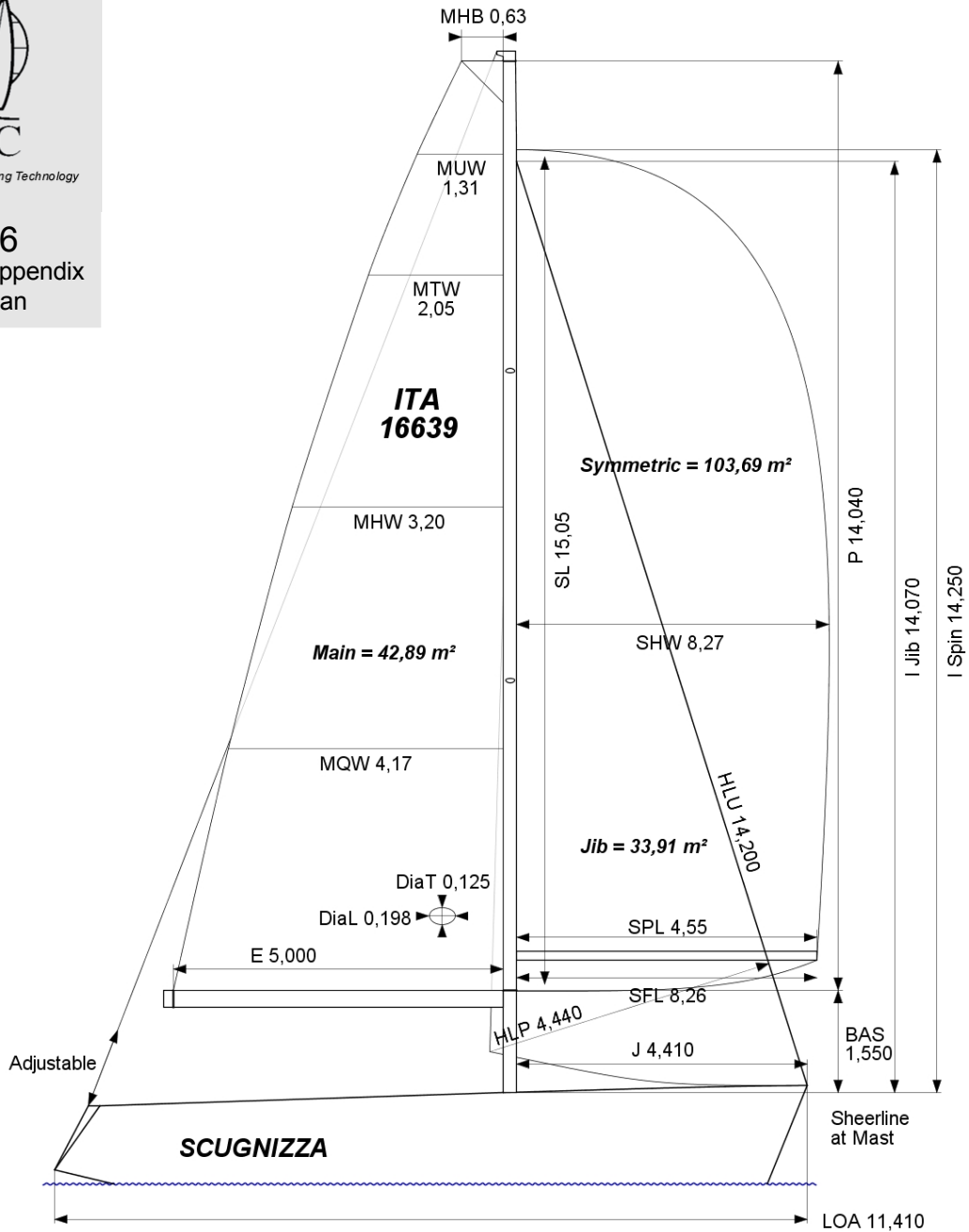
MEASUREMENT INVENTORY				
Measurer NOCETI-ZIZZI 120-162				
Date 26/07/2016				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	LOMBARDINI	30 HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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</i>	<i>Description</i>
A	Tank	GASOLIO	INOX	130.0	9.61	0.00	0-0	LT
B	Tank	ACQUA	PVC	100.0	9.30	0.00	0-0	VUOTO
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
A	Battery	56.0	8.36	0.00 2 DA 75 Ah				
B	Battery	56.0	8.36	0.00 2 DA 75 Ah				



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
E	0.630	1.31	2.05	3.20	4.17	42.89	MAUGERI	25/07/2016	QUANTUM	Carbon	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.10	0.80	1.43	2.48	3.43	4.44	14.20	101%	33.92	N	N	MAUGERI	25/07/2016	QUANTUM	Carbon	J2

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
K	15.05	15.05	15.05	8.27	8.26	103.69	MAUGERI	25/07/2016		Unknown	
J	15.05	15.05	15.05	8.30	8.06	103.49	AVETA	13/06/2016		Unknown	S1.5
I	15.10	15.10	15.10	8.24	8.08	103.28	AVETA	13/06/2016	QUANTUM	Nylon	S1

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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