

BOAT Name SCUGNIZZA Sail Nr ITA-27102	GPH 590.9	HULL Length Overall 11.650m Maximum Beam 3.972m Displacement 6,278kg Draft 2.105m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.017% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class ITALIA 11.98 Designer POLLI Builder ITALIA YACHTS Series 04/2019 Age 05/2019 Age Allowance 0.000% Offset File IY1198.off - 24/04/2019 11:06:02 Measurement by - 04/11/2019		IMSL 10.333m VCGD 0.192m Sink 21.43kg/mm RL 9.169m VCGM 0.150m WS 28.39m² LSM0 9.958m Displacement/Length ratio 6.3578



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	575.1			645.9		
Time on Time	1.0433			1.0450		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	676.8	523.7	466.2	876.7	648.2	565.2
Time on Time	0.9973	1.2890	1.4478	0.7699	1.0413	1.1942

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1012.0	834.5	737.3	697.4	680.5	674.1	662.1
52°	656.3	551.9	499.3	478.2	471.0	467.7	462.1
60°	616.8	525.2	483.7	464.9	456.4	452.1	447.5
75°	586.6	506.2	473.0	453.2	437.7	428.1	420.8
90°	592.5	502.5	464.5	449.4	432.2	414.7	392.8
110°	592.0	494.2	456.5	429.4	407.8	395.5	375.0
120°	608.8	503.3	461.8	433.9	407.1	383.1	354.2
135°	677.1	548.3	483.0	452.4	425.9	401.1	352.2
150°	800.5	637.6	539.4	483.3	454.5	429.9	384.8
Run VMG	924.4	736.3	622.8	551.0	503.4	468.2	420.8

Selected Courses							
Windward / Leeward	968.2	785.4	680.1	624.2	592.0	571.2	541.5
Circular Random	813.1	656.8	573.4	525.1	495.2	475.2	448.3
Coastal / Long Distance	963.8	736.8	612.7	544.1	506.4	475.4	425.8
Non Spinnaker	875.5	701.1	606.3	550.7	516.1	493.3	463.9

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	43.6°	42.2°	41.2°	40.3°	40.5°	40.4°	40.4°
Beat VMG	3.56	4.31	4.88	5.16	5.29	5.34	5.44
52°	5.49	6.52	7.21	7.53	7.64	7.70	7.79
60°	5.84	6.85	7.44	7.74	7.89	7.96	8.05
75°	6.14	7.11	7.61	7.94	8.22	8.41	8.56
90°	6.08	7.16	7.75	8.01	8.33	8.68	9.17
110°	6.08	7.28	7.89	8.38	8.83	9.10	9.60
120°	5.91	7.15	7.80	8.30	8.84	9.40	10.16
135°	5.32	6.57	7.45	7.96	8.45	8.97	10.22
150°	4.50	5.65	6.67	7.45	7.92	8.37	9.36
Run VMG	3.89	4.89	5.78	6.53	7.15	7.69	8.55
Gybe Angles	143.9°	147.7°	150.1°	156.1°	171.4°	180.0°	180.0°

Certificate
Number **271021**
ORC Ref **ITA00054352**
Issued On **06/11/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **684kg**
Maximum **740kg**
Minimum* **555kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **600.4 0.9993**
Double H.OSN **585.5 1.0248**
Non Spin GPH **625.9 0.9586**
Non Spin OSN **608.7 0.9858**

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

Class Division Length
CDL = **9.752**

Storm Sails Areas
Heavy Weather Jib **31.08**
Storm Jib (JL=9.87) **11.51**
Storm Trysail **13.51**

Owner

BOAT	
Name SCUGNIZZA	Sail Nr ITA-27102
File I27102	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 14.430	E 5.350 MDT1 0.110 MW 0.187
IG 15.120	J 4.750 MDL1 0.200 GO 0.203
ISP 16.340	SFJ 0.140 MDT2 0.105 BD 0.230
BAS 1.650	SPL 4.830 MDL2 0.175 MWT 145.40
FSP 0.070	TPS 6.160 TL 2.070 MCG 5.680

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 10/07/2019		SG 1.0250	
FFM 1.285	FF 1.284	SFFP 0.004	
FAM 0.370	FA 0.372	SAFP 11.642	
W1 89.5	PD1 589.8	WD 13.340	
W2 89.5	PD2 614.5	GSA 1.0	
W3 89.5	PD3 592.0	RSA 1.0	
W4 89.5	PD4 583.0	PLM 9000.0	
LCF from stem on CL / on sheer		6.470 / 6.715	
Maximum beam station from stem		8.592	
RM Measured		158.1kg-m	
RM Default		177.4kg-m	
Limit of positive stability / Stab.Index		115.8° / 113.7	
Freeboard at mast at 4.890		1.353	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.452		
Type Folding 2 blades	PBW 0.117		
Twin Screw No	PIPA 0.0040		
ST1 0.065	ST3 0.180	ST5 0.350	
ST2 0.180	ST4 0.110	EDL 1.930	

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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	
	0.510	1.29	2.11	3.47	4.52	46.97	48.11	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16.19	16.19	16.19	8.77	8.53	117.67		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	17.74	14.28	16.01	8.34	9.74	115.01		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	0.85	1.57	2.78	3.87	4.88	15.13	40.20	Y	N	08/07/2019	Carbon	J1

MEASUREMENT INVENTORY				
Measurer 162				
Date 10/07/2019				
Comment Condizioni perfette				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO PENTA	30HP	
Id	Item	Weight Description		

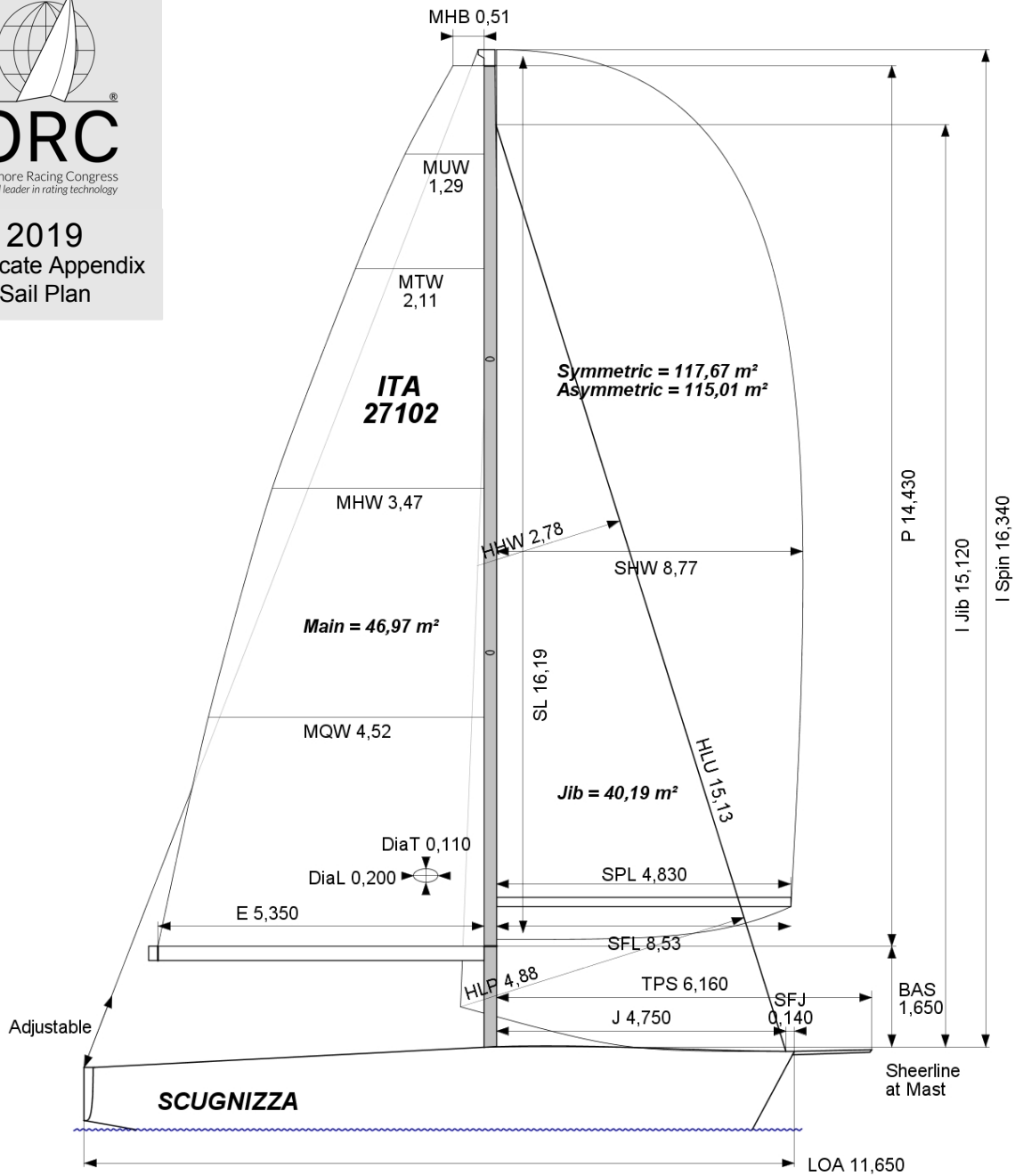
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
B	Tank	FUEL	INOX	200.0	9.20	0.00		14-0 L	
A	Tank	WATER	PVC	100.0	8.90	0.00		0-0 SX	
Id	Item	Weight	Distance	VCG Description					
C	Ballast	45.2	5.45	0.00 3 PANI PB SX CX					
B	Ballast	71.8	5.15	0.00 4 PANI PB SX DX CX					
D	Ballast	23.4	5.90	0.00 1 PANE PB CX					
F	Ballast	94.7	6.75	0.00 4 PANI SX CX DX					
E	Ballast	69.1	6.35	0.00 3 PANI SX CX DX					
A	Ballast	56.7	4.50	0.00 9 PANI PB SX CX					
A	Battery	0.0	5.05	0.00 AGM 3 X 75 AH SERVIZI					
B	Battery	0.0	8.25	0.00 AGM 1 X 75 AH ENGINE					
A	Misc	0.0	10.50	0.00 AUTOPILOTA					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.51	1.29	2.11	3.47	4.52	46.97		08/07/2019	QUANTUM	Carbon	MN

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.12	0.85	1.57	2.78	3.87	4.88	15.13	103%	40.20	Y	N		08/07/2019	QUANTUM	Carbon	J1

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	16.19	16.19	16.19	8.77	8.53	117.68		08/07/2019	QUANTUM	Nylon	S1.5
C	16.35	16.35	16.35	8.51	8.46	115.82		08/07/2019	QUANTUM	Nylon	S1

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	17.74	14.28	16.01	8.34	9.74	115.01	asym		22/05/2019	QUANTUM	Nylon	A1