

BOAT Name SAGOLA 60 Sail Nr ITA-15109	GPH 622.0	HULL Length Overall 10.757m Maximum Beam 3.524m Displacement 4,749kg Draft 2.067m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.146% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class J-109 MOD. Designer JOHNSTONE Builder J-COMPOSITE Series 09/2001 Age 04/2003 Age Allowance 0.487% Offset File I15109D.OFF - 06/06/2017 17:06:24 Measurement by - 23/04/2019		IMSL 9.521m VCGD -0.035m Sink 17.71kg/mm RL 8.601m VCGM -0.044m WS 24.27m² LSM0 9.351m Displacement/Length ratio 5.8080



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	604.4			675.0		
Time on Time	0.9928			1.0001		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	712.9	550.6	491.8	921.6	676.5	589.7
Time on Time	0.9468	1.2260	1.3726	0.7324	0.9978	1.1446

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1054.4	868.4	762.8	720.0	705.1	699.7	685.8
52°	687.7	577.5	524.3	505.0	498.4	495.4	488.7
60°	648.5	551.6	510.1	492.4	484.6	480.7	475.2
75°	619.6	533.7	499.5	480.1	466.1	457.2	450.1
90°	628.2	529.5	491.8	476.9	458.8	442.2	420.9
110°	628.2	523.7	484.7	458.6	436.4	423.1	402.7
120°	649.4	535.5	489.9	461.5	434.6	411.5	381.9
135°	719.6	581.6	511.9	479.4	452.2	425.7	374.3
150°	851.8	675.6	570.0	510.6	480.8	455.7	407.4
Run VMG	983.5	780.2	657.9	580.8	528.3	493.0	444.4

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Number **151091**
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VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **625kg**
Maximum **630kg**
Minimum* **473kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	631.9	0.9495
Double H.OSN	615.9	0.9742
Non Spin GPH	656.4	0.9141
Non Spin OSN	636.7	0.9424

Selected Courses							
Windward / Leeward	1019.0	824.3	710.3	650.4	616.7	596.3	565.1
Circular Random	856.4	691.3	603.3	552.6	521.6	500.9	473.1
Coastal / Long Distance	1015.4	774.0	641.8	570.5	532.7	502.4	452.2
Non Spinnaker	918.5	735.1	635.7	577.7	542.0	518.6	488.2

Sails Limitations

Headsails	5	Spinnakers	3
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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	42.7°	41.5°	40.5°	39.3°	39.0°	38.9°	38.9°
Beat VMG	3.41	4.15	4.72	5.00	5.11	5.15	5.25
52°	5.24	6.23	6.87	7.13	7.22	7.27	7.37
60°	5.55	6.53	7.06	7.31	7.43	7.49	7.58
75°	5.81	6.75	7.21	7.50	7.72	7.87	8.00
90°	5.73	6.80	7.32	7.55	7.85	8.14	8.55
110°	5.73	6.87	7.43	7.85	8.25	8.51	8.94
120°	5.54	6.72	7.35	7.80	8.28	8.75	9.43
135°	5.00	6.19	7.03	7.51	7.96	8.46	9.62
150°	4.23	5.33	6.32	7.05	7.49	7.90	8.84
Run VMG	3.66	4.61	5.47	6.20	6.81	7.30	8.10
Gybe Angles	144.8°	148.7°	150.4°	157.2°	174.8°	180.0°	180.0°

Class Division Length
CDL = **9.061**

Storm Sails Areas
Heavy Weather Jib **27.43**
Storm Jib (JL=9.27) **10.16**
Storm Trysail **10.63**

Owner

BOAT	
Name SAGOLA 60	Sail Nr ITA-15109
File I15109	Data in meters/kilograms

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 12.880	E 4.715 MDT1 0.104 MW 0.162
IG 14.254	J 4.050 MDL1 0.188 GO 0.162
ISP 14.360	SFJ MDT2 0.104 BD 0.160
BAS 1.640	SPL 4.050 MDL2 0.152 MWT 132.00
FSP 0.066	TPS TL 1.106 MCG 5.160

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 25/05/2017		SG 1.0020	
FFM 1.248	FF 1.255	SFFP 0.420	
FAM 1.033	FA 1.039	SAFP 10.254	
W1 70.0	PD1 582.4	WD 12.050	
W2 70.0	PD2 582.5	GSA 1.0	
W3 70.0	PD3 579.0	RSA 1.0	
W4 70.0	PD4 581.8	PLM 9000.0	
LCF from stem on CL / on sheer		5.874 / 6.105	
Maximum beam station from stem		6.540	
RM Measured		114.2kg-m	
RM Default		113.2kg-m	
Limit of positive stability / Stab.Index		120.1° / 118.7	
Freeboard at mast at 4.050		1.116	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.380		
Type Folding 2 blades	PBW 0.100		
Twin Screw No	PIPA 0.0032		
ST1 0.047	ST3 0.170	ST5 0.330	
ST2 0.170	ST4 0.096	EDL 1.650	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.270	1.05	1.82	3.09	4.04	36.85	37.74	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	90.69		SL · (SFL + 4·SHW) / 6	
	14.43	14.43	14.43	7.52	7.63				
Asymmetric	SLU	SLE	SL	SHW	SFL	85.16		AS · (SFL + 4·SHW) / 6	
	14.64	13.55	14.10	7.20	7.45				

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
0.13	0.68	1.24	2.28	3.25	4.21	14.31	31.79	Y		23/04/2019	Carbon	
0.01	0.67	1.23	2.26	3.25	4.22	14.30	31.59	Y	N	19/04/2017	Technor	LIGHT
0.08	0.65	1.20	2.23	3.22	4.21	14.31	31.35	Y	N	19/04/2017	Carbon	MEDIUM

MEASUREMENT INVENTORY				
Measurer 134				
Date 25/05/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
M	Engine	VOLVO	20 HP	
Id	Item	Weight Description		

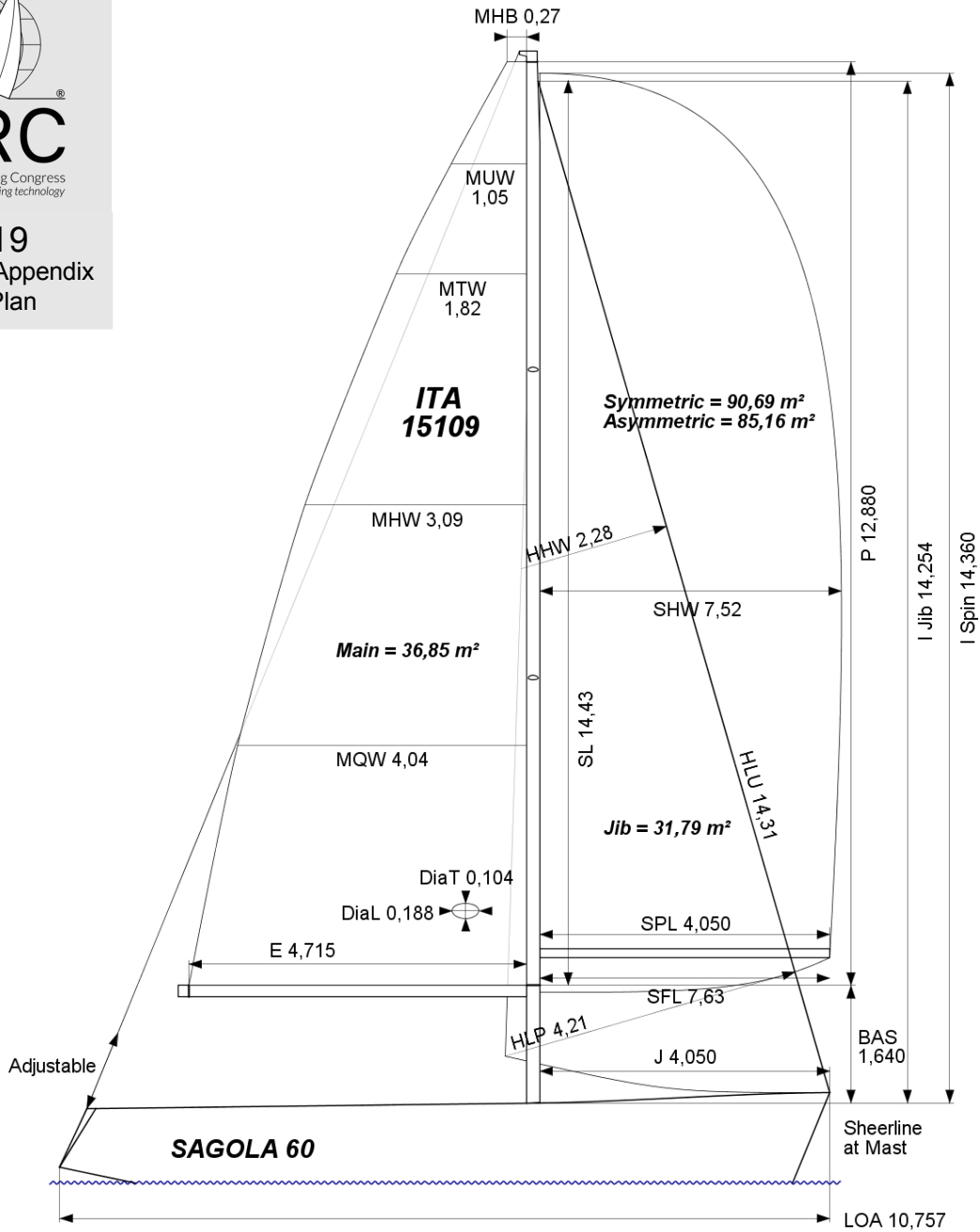
MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
A	Tank	FUEL	INOX	85.0	8.00	0.00	5-0	L
B	Tank	WATER	INOX	150.0	5.00	0.00	0-0	EMPTY
Id	Item	Weight	Distance	VCG Description				
A	Ballast	110.0	6.10	-0.10 STIMATO 3 PANI INAMOVIBILI				
B	Battery	0.0	4.70	0.10 2 x 95 Ah				
B	Misc	0.0	6.15	0.00 FORNELLO CON FORNO				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
B	0.27	1.05	1.82	3.09	4.04	36.86		19/04/2017	EURO SAIL	Carbon						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G	0.13	0.68	1.24	2.28	3.25	4.21	14.31	104%	31.79	Y			23/04/2019	EUROSAIL	Carbon	
E	0.01	0.67	1.23	2.26	3.25	4.22	14.30	104%	31.59	Y	N		19/04/2017	EURO SAIL	Technor	LIGHT
F	0.08	0.65	1.20	2.23	3.22	4.21	14.31	104%	31.35	Y	N		19/04/2017	EURO SAIL	Carbon	MEDIUM
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
F	14.43	14.43	14.43	7.52	7.63	90.70		19/04/2017	EURO SAIL	Nylon						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A	14.64	13.55	14.10	7.20	7.45	85.16	asym		10/05/2011		Unknown					