

BOAT Name SAGOLA Sail Nr ITA-16939	GPH 595.0	HULL Length Overall 11.820m Maximum Beam 3.694m Displacement 7,038kg Draft 2.145m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.051% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class GRAND SOLEIL 39 Designer MALETTO Builder DEL PARDO Series 06/2011 Age 07/2012 Age Allowance 0.260% Offset File I16939A.OFF - 27/04/2015 20:20:20 Measurement by - 17/04/2019		IMSL 10.799m VCGD 0.127m Sink 22.71kg/mm RL 9.011m VCGM 0.131m WS 30.07m² LSM0 10.632m Displacement/Length ratio 5.8560



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	580.0			650.3		
Time on Time	1.0345			1.0380		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	677.4	527.8	475.7	877.8	652.7	573.3
Time on Time	0.9965	1.2790	1.4191	0.7690	1.0341	1.1774

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	997.6	822.8	734.8	703.4	691.3	684.5	678.8
52°	649.0	545.9	498.1	483.6	478.1	475.8	469.0
60°	611.3	520.5	482.5	468.9	463.8	461.5	455.1
75°	581.9	503.0	471.2	455.2	445.9	441.3	437.9
90°	585.7	503.0	468.6	451.1	436.3	424.0	410.7
110°	603.3	500.3	460.8	438.8	420.1	405.7	386.5
120°	619.6	509.6	464.8	440.1	417.1	397.4	366.9
135°	685.8	555.0	486.5	455.7	432.6	409.0	362.8
150°	815.6	648.7	546.9	486.5	457.4	435.5	392.0
Run VMG	941.7	749.0	631.5	555.6	506.1	469.8	426.1

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Number **169391**
ORC Ref **ITA00052417**
Issued On **13/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 751kg
Maximum **715kg**
Minimum* **536kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **605.5 0.9909**
Double H.OSN **591.6 1.0141**
Non Spin GPH **624.6 0.9606**
Non Spin OSN **608.4 0.9863**

Selected Courses							
Windward / Leeward	969.7	785.9	683.1	629.5	598.7	577.2	552.5
Circular Random	815.2	659.6	577.3	530.5	502.3	483.9	460.3
Coastal / Long Distance	966.9	737.8	615.4	548.8	513.4	484.6	437.3
Non Spinnaker	868.6	697.3	605.1	551.9	519.5	498.6	472.7

Sails Limitations
Headsails **6** | Spinnakers **4**

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	43.4°	41.8°	41.0°	40.3°	39.9°	39.9°	40.3°
Beat VMG	3.61	4.38	4.90	5.12	5.21	5.26	5.30
52°	5.55	6.59	7.23	7.44	7.53	7.57	7.68
60°	5.89	6.92	7.46	7.68	7.76	7.80	7.91
75°	6.19	7.16	7.64	7.91	8.07	8.16	8.22
90°	6.15	7.16	7.68	7.98	8.25	8.49	8.77
110°	5.97	7.20	7.81	8.20	8.57	8.87	9.32
120°	5.81	7.06	7.74	8.18	8.63	9.06	9.81
135°	5.25	6.49	7.40	7.90	8.32	8.80	9.92
150°	4.41	5.55	6.58	7.40	7.87	8.27	9.18
Run VMG	3.82	4.81	5.70	6.48	7.11	7.66	8.45
Gybe Angles	141.4°	148.3°	149.9°	155.8°	170.4°	180.0°	180.0°

Class Division Length
CDL = **9.906**

Storm Sails Areas
Heavy Weather Jib **33.78**
Storm Jib (JL=10.29) **12.51**
Storm Trysail **14.11**

Owner

BOAT	
Name SAGOLA	Sail Nr ITA-16939
File I16939	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 15.160	E 5.315 MDT1 0.132 MW 0.264
IG 15.737	J 4.785 MDL1 0.264 GO 0.288
ISP 15.841	SFJ -0.145 MDT2 0.127 BD 0.235
BAS 1.791	SPL 4.785 MDL2 0.215 MWT 184.00
FSP 0.084	TPS 4.785 TL 1.480 MCG 5.655

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 02/05/2019		SG 1.0080	
FFM 1.400	FF 1.405	SFFP 0.431	
FAM 1.094	FA 1.101	SAFP 10.824	
W1 84.0	PD1 572.1	WD 14.000	
W2 84.0	PD2 591.0	GSA 1.0	
W3 84.0	PD3 596.0	RSA 1.0	
W4 84.0	PD4 588.7	PLM 9000.0	
LCF from stem on CL / on sheer		6.439 / 6.690	
Maximum beam station from stem		7.228	
RM Measured		157.8kg-m	
RM Default		181.1kg-m	
Limit of positive stability / Stab.Index		119.3° / 122.3	
Freeboard at mast at 0.000		1.354	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.450		
Type Folding 2 blades	PBW 0.120		
Twin Screw No	PIPA 0.0041		
ST1 0.065	ST3 0.180	ST5 0.340	
ST2 0.180	ST4 0.110	EDL 2.900	

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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	
	0.370	1.25	2.08	3.38	4.42	48.56	49.59	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16.01	16.01	16.01	8.50	8.26	112.76		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	15.91	14.61	15.26	6.77	9.01	91.79		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
0.09	0.82	1.53	2.79	3.96	5.06	15.90	42.88	Y	N	29/05/2017	Unknow	NEW SAIL

MEASUREMENT INVENTORY				
Measurer FIV 85				
Date 02/05/2019				
Comment YCH				
<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	D240	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

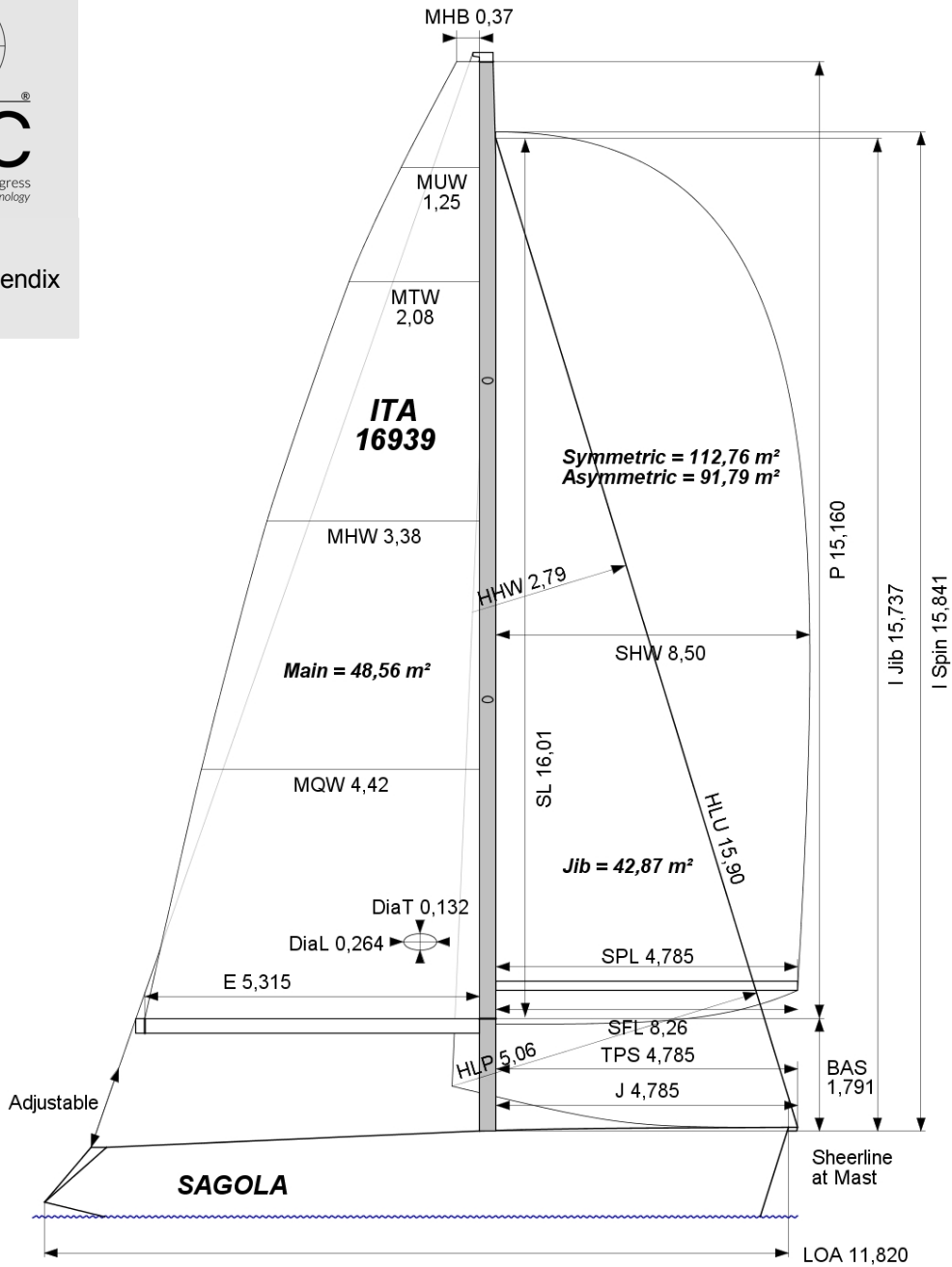
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
A	Tank	WATER	PVC	160.0	6.30	0.00	0-0	EMPTY	
B	Tank	WATER	PVC	160.0	5.40	0.00	0-0	EMPTY	
C	Tank	FUEL	INOX	85.0	9.50	0.00	45-0	L	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
A	Battery	58.0	4.89	0.00 2 x 90 Ah					
B	Battery	24.0	6.20	0.00 1x95Ah					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
E	0,37	1,25	2,08	3,38	4,42	48,27		09/06/2017	EUROSAIL	Unknown	NS

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
D	0,09	0,82	1,53	2,79	3,96	5,06	15,90	106%	42,88	Y	N		29/05/2017	EUROSAIL	Unknown	NEW SAIL

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
E	16,01	16,01	16,01	8,50	8,26	112,77		29/05/2017	QUANTUM	Nylon	REMEASURED
F	15,99	15,99	15,99	8,24	8,33	110,04		29/05/2017	EUROSAIL	Nylon	NEW SAIL

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	15,91	14,61	15,26	6,77	9,01	91,79	asym		17/04/2019		Unknown	