

BOAT Name DIGITAL BRAVO Sail Nr ITA-42171	GPH 537.8	HULL Length Overall 12.960m Maximum Beam 3.910m Displacement 7,440kg Draft 2.734m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class SWAN 42 CLUB Designer FRERS Builder NAUTOR Series 05/2006 Age 07/2008 Age Allowance 0.422% Offset File SWAN42CS.OFF - 19/02/2015 20:04:48 Measurement by - 11/05/2019		IMSL 11.798m VCGD -0.444m Sink 24.10kg/mm RL 11.337m VCGM -0.330m WS 32.67m² LSM0 11.462m Displacement/Length ratio 4.9407



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	524.1			588.5		
Time on Time	1.1449			1.1469		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	603.5	479.9	432.3	777.4	589.5	524.2
Time on Time	1.1185	1.4064	1.5614	0.8683	1.1450	1.2877

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	880.4	725.2	653.0	627.1	615.1	605.1	594.2
52°	579.3	488.9	457.6	447.2	442.1	439.3	431.0
60°	548.4	472.3	446.8	435.4	429.7	426.2	417.5
75°	524.5	461.9	437.6	421.6	409.7	402.9	396.5
90°	528.9	462.2	436.5	417.4	399.3	384.2	367.4
110°	532.0	453.4	423.7	406.9	393.3	380.0	353.9
120°	545.6	458.0	425.5	398.0	378.0	363.8	335.5
135°	608.4	489.4	442.6	414.6	385.9	357.3	304.4
150°	724.0	578.4	491.0	445.4	424.2	402.4	347.9
Run VMG	836.0	667.9	567.0	513.8	488.8	458.9	401.7

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Number **421711**
ORC Ref **ITA00053040**
Issued On **06/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 836kg
Maximum **945kg**
Minimum* **709kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	548.6	1.0937
Double H.OSN	536.7	1.1179
Non Spin GPH	574.8	1.0438
Non Spin OSN	561.2	1.0691

Selected Courses							
Windward / Leeward	858.2	696.6	610.0	570.5	551.9	532.0	498.0
Circular Random	729.6	593.5	522.4	482.1	457.1	439.5	412.5
Coastal / Long Distance	856.0	655.8	553.6	498.8	469.8	442.9	396.1
Non Spinnaker	797.5	641.5	557.4	508.0	477.0	455.9	427.8

Sails Limitations

Headsails	Spinnakers
6	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	42.5°	40.8°	39.1°	37.7°	37.4°	36.9°	36.8°
Beat VMG	4.09	4.96	5.51	5.74	5.85	5.95	6.06
52°	6.21	7.36	7.87	8.05	8.14	8.19	8.35
60°	6.56	7.62	8.06	8.27	8.38	8.45	8.62
75°	6.86	7.79	8.23	8.54	8.79	8.93	9.08
90°	6.81	7.79	8.25	8.63	9.02	9.37	9.80
110°	6.77	7.94	8.50	8.85	9.15	9.47	10.17
120°	6.60	7.86	8.46	9.04	9.52	9.89	10.73
135°	5.92	7.36	8.13	8.68	9.33	10.07	11.83
150°	4.97	6.22	7.33	8.08	8.49	8.95	10.35
Run VMG	4.31	5.39	6.35	7.01	7.37	7.85	8.96
Gybe Angles	142.9°	145.0°	148.9°	151.9°	151.4°	176.1°	143.3°

Class Division Length
CDL = **11.568**

Storm Sails Areas
Heavy Weather Jib **44.58**
Storm Jib (JL=11.82) **16.51**
Storm Trysail **17.34**

Owner

BOAT	
Name DIGITAL BRAVO	Sail Nr ITA-42171
File I42171	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 17.200	E 5.760 MDT1 0.140 MW 0.263
IG 18.000	J 5.000 MDL1 0.263 GO 0.310
ISP 19.470	SFJ 0.344 MDT2 0.140 BD 0.200
BAS 1.955	SPL 0.000 MDL2 0.190 MWT 255.00
FSP 0.074	TPS 7.025 TL 0.900 MCG 6.150

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 11/05/2019	SG 1.0260	
FFM 1.459	FF 1.461	SFFP 0.474
FAM 1.131	FA 1.131	SAFP 12.543
W1 120.0	PD1 593.3	WD 13.480
W2 120.0	PD2 594.6	GSA 1.0
W3 120.0	PD3 592.8	RSA 1.0
W4 120.0	PD4 593.2	PLM 9000.0
LCF from stem on CL / on sheer	7.130 / 7.381	
Maximum beam station from stem	8.347	
RM Measured	214.6kg-m	
RM Default	212.9kg-m	
Limit of positive stability / Stab.Index	134.7° / 136.9	
Freeboard at mast at 5.344	1.244	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.430	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0041	
ST1 0.065	ST3 0.180 ST5 0.302	
ST2 0.180	ST4 0.110 EDL 1.800	

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COMMENTS	
FFM= -2 mm rinforzo sul bordo SBARCATI PARTE DI ARREDI INTERNI ACL	

MOVABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.48	2.44	3.78	4.85	60.74	62.14	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	22.10	17.69	19.89	11.12	11.07	184.19	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
0.10	0.80	1.49	2.72	3.95	5.35	18.29	49.70	N	N	08/05/2019	Unknow	JL
0.10	0.79	1.49	2.72	3.92	5.35	18.34	49.69	N	N	18/08/2016	Unknow	J2
0.10	0.79	1.47	2.71	3.91	5.35	18.32	49.50	N	N	18/08/2016	Unknow	J1
0.11	0.76	1.47	2.67	3.87	5.31	18.05	48.27			02/06/2019	Unknow	JM

MEASUREMENT INVENTORY				
Measurer FIV 120				
Date 11/05/2019				
Comment MARINA di CARRARA				
<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 PENTA	D2-40B	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>

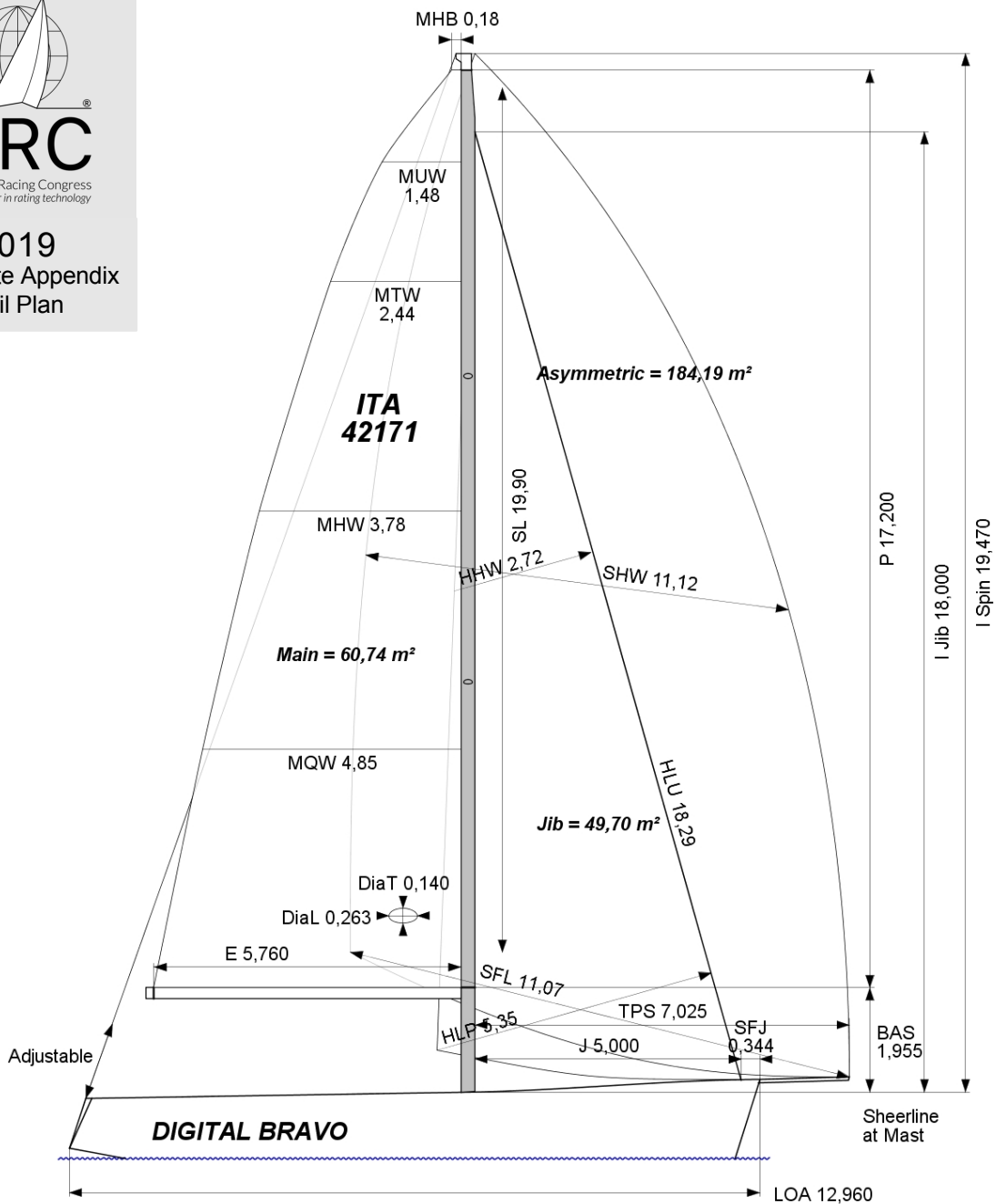
MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
A	Tank	DIESEL	PVC	70.0	5.85	0.00	15-0	PORT
B	Tank	DIESEL	PVC	70.0	5.85	0.00	15-0	STBD
C	Tank	WATER	PVC	320.0	6.60	0.00	0-0	2X160 EACH SIDE
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>			
A	Battery	40.0	6.46	0.00	MASTERVOLT AGM 160 AH - 2PC			
B	Battery	15.0	7.70	0.00	1x70 AH			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
C	0.18	1.48	2.44	3.78	4.85	60.74		08/05/2019	NORTH	Unknown	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G	0.10	0.80	1.49	2.72	3.95	5.35	18.29	107%	49.70	N	N		08/05/2019	NORTH	Unknown	JL
F	0.10	0.79	1.49	2.72	3.92	5.35	18.34	107%	49.69	N	N		18/08/2016	N/S	Unknown	J2
E	0.10	0.79	1.47	2.71	3.91	5.35	18.32	107%	49.50	N	N		18/08/2016	N/S	Unknown	J1
I	0.11	0.76	1.47	2.67	3.87	5.31	18.05	106%	48.27				02/06/2019		Unknown	JM

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
H	22.10	17.69	19.90	11.12	11.07	184.20	asym		08/05/2019	NORTH	Unknown	A2