

BOAT
Name MELA
Sail Nr ITA-4220

GPH
542.0

HULL			
Length Overall	12.960m	Maximum Beam	3.910m
Displacement	7,780kg	Draft	2.748m
IMS Reg. Division	Performance	Dynamic Allowance	0.000%
Fwd Accommodation	No	Hull Construction	Cored
Carbon Rudder	Yes	Crew Arm Extension	
IMSL	11.874m	VCGD	-0.414m
RL	11.280m	VCGM	-0.315m
LSM0	11.596m	Displacement/Length ratio	4.9895



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GENERAL	
Class	SWAN 42
Designer	SWAN NY/CLUB FRERS
Builder	NAUTOR
Series	01/2006
Age	07/2007
Age Allowance	0.422%
Offset File	SWAN42CS.OFF - 19/02/2015 20:04:48
Measurement by	- 11/05/2019

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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	527.9			592.3		
Time on Time	1.1367			1.1397		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	609.9	483.1	435.4	785.6	592.9	527.3
Time on Time	1.1068	1.3973	1.5503	0.8592	1.1384	1.2802

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	891.8	734.9	657.6	628.7	615.8	607.6	594.1
52°	587.5	495.0	460.3	448.3	442.9	440.0	432.3
60°	556.6	477.6	449.5	437.0	430.9	427.3	420.3
75°	532.8	466.5	441.0	425.0	412.6	405.2	398.2
90°	537.4	464.7	440.1	421.7	404.3	389.1	370.1
110°	536.6	456.1	426.4	409.5	396.8	383.6	358.5
120°	549.9	461.0	428.3	401.9	381.3	366.9	339.6
135°	613.4	493.5	445.2	418.1	390.4	362.6	309.4
150°	729.5	583.2	494.7	448.3	427.6	407.0	355.2
Run VMG	842.3	673.4	571.3	517.1	492.2	461.5	410.2

Certificate	
Number	42201
ORC Ref	ITA00053001
Issued On	02/06/2019
VPP Ver.	2019 1.01
Valid until	31/12/2019

Selected Courses							
Windward / Leeward	867.1	704.1	614.4	572.9	554.0	534.5	502.1
Circular Random	736.7	598.6	526.3	485.4	460.2	442.7	416.0
Coastal / Long Distance	864.6	662.6	557.5	501.4	472.3	445.9	399.9
Non Spinnaker	806.7	648.1	562.4	512.0	480.4	459.1	430.6

Crew Weight	
Default	850kg
Maximum	924kg
Minimum*	693kg
*when applied by the NoR and SI	
Non Manual Pwr	No

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	42.4°	40.8°	39.3°	37.8°	37.1°	36.9°	36.7°
Beat VMG	4.04	4.90	5.47	5.73	5.85	5.93	6.06
52°	6.13	7.27	7.82	8.03	8.13	8.18	8.33
60°	6.47	7.54	8.01	8.24	8.36	8.43	8.57
75°	6.76	7.72	8.16	8.47	8.72	8.88	9.04
90°	6.70	7.75	8.18	8.54	8.90	9.25	9.73
110°	6.71	7.89	8.44	8.79	9.07	9.38	10.04
120°	6.55	7.81	8.40	8.96	9.44	9.81	10.60
135°	5.87	7.29	8.09	8.61	9.22	9.93	11.64
150°	4.93	6.17	7.28	8.03	8.42	8.85	10.13
Run VMG	4.27	5.35	6.30	6.96	7.31	7.80	8.78
Gybe Angles	142.9°	145.6°	148.8°	151.7°	151.8°	176.0°	143.3°

Special Scoring	
ToD	ToT
Double H.GPH	551.9 1.0872
Double H.OSN	539.2 1.1127
Non Spin GPH	580.1 1.0343
Non Spin OSN	565.8 1.0604

Sails Limitations	
Headsails	Spinnakers
6	4

Class Division Length	
CDL = 11.578	

Storm Sails Areas	
Heavy Weather Jib	44.54
Storm Jib (JL=11.81)	16.50
Storm Trysail	17.26

Owner

BOAT	
Name MELA	Sail Nr ITA-4220
File I4220	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 17.090	E 5.770 MDT1 0.138 MW 0.264
IG 17.980	J 4.980 MDL1 0.264 GO 0.314
ISP 19.440	SFJ 0.345 MDT2 0.106 BD 0.200
BAS 1.970	SPL 0.000 MDL2 0.200 MWT 238.000
FSP 0.068	TPS 7.040 TL 1.000 MCG 6.240

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 11/05/2019		SG 1.0260
FFM 1.450	FF 1.451	SFFP 0.474
FAM 1.114	FA 1.114	SAFP 12.543
W1 100.0	PD1 487.0	WD 13.490
W2 100.0	PD2 484.5	GSA 1.0
W3 100.0	PD3 487.4	RSA 1.0
W4 100.0	PD4 480.5	PLM 9000.0
LCF from stem on CL / on sheer		7.166 / 7.416
Maximum beam station from stem		8.347
RM Measured		219.1kg-m
RM Default		215.4kg-m
Limit of positive stability / Stab.Index		133.9° / 136.8
Freeboard at mast at 5.325		1.232



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.440	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0040	
ST1 0.065	ST3 0.180	ST5 0.280
ST2 0.180	ST4 0.110	EDL 1.630

Certificate	
Number 42201	
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COMMENTS	
MAST JACK MONTATO NON COLLEGATO ARREDO SMONTATO AL 80%	

MOVABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.170	1.46	2.39	3.74	4.82	59.86	61.19	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		
	21.98	17.69	19.84	11.10	11.00	183.14	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	0.78	1.46	2.67	3.87	5.32	18.10	48.43	Y	N	11/05/2019	Carbon	JM
0.09	0.75	1.45	2.65	3.87	5.29	18.10	48.16	Y	N	11/05/2019	Carbon	JL
0.09	0.71	1.33	2.54	3.84	5.30	18.33	47.78	Y	N	15/06/2018	Carbon	JH

MEASUREMENT INVENTORY				
Measurer 120				
Date 11/05/2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO PENTA	D2-40 29 KW	
Id	Item	Weight	Description	

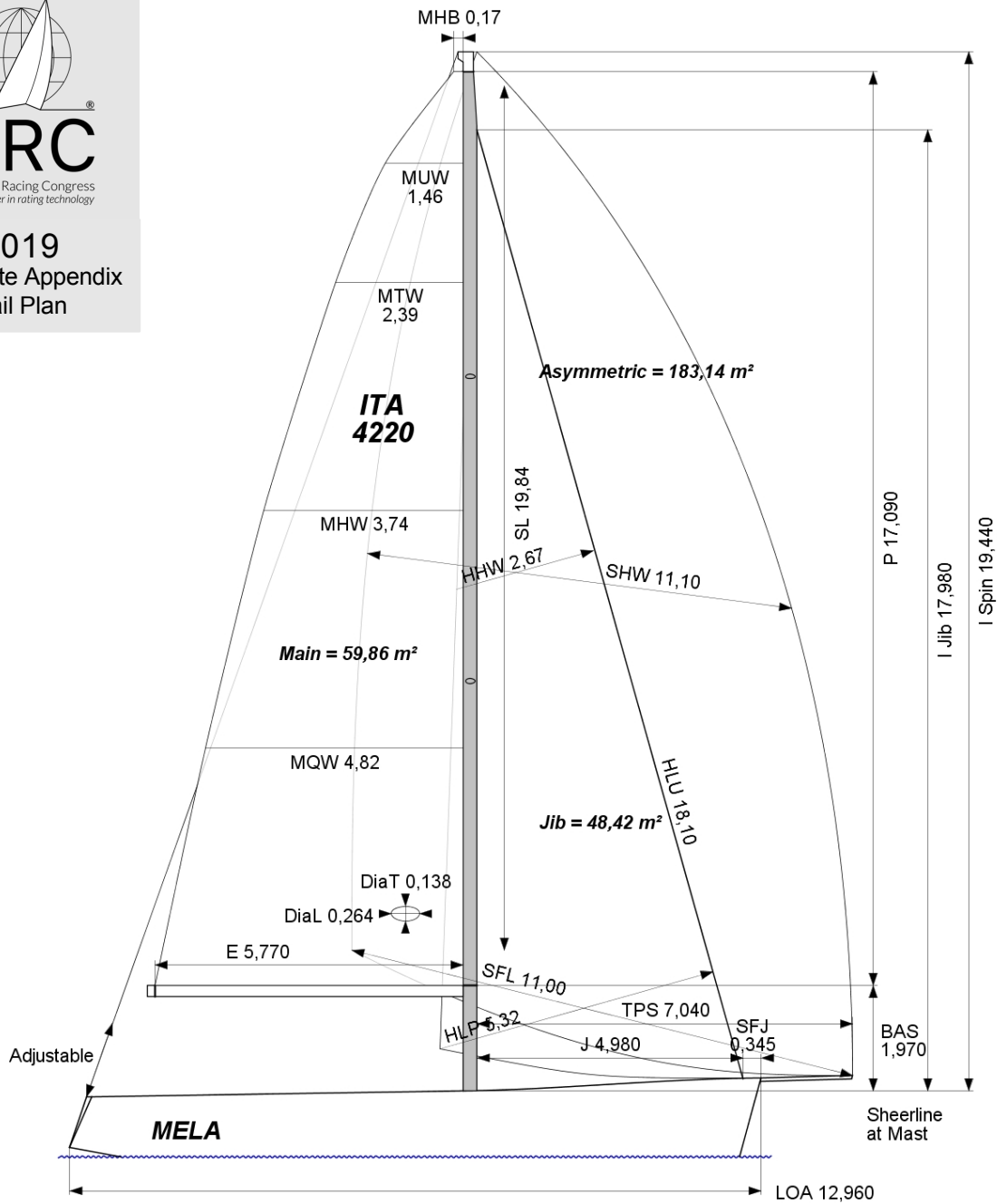
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	ACQUA	PVC	320.0	7.00	0.00	0-0
B	Tank	GASOLIO	PVC	140.0	5.50	0.00	0-0 L
Id	Item	Weight	Distance	VCG Description			
A	Ballast	300.0	6.88	0.00	PANI PIOMBO DX/SX/CX		
A	Battery	35.0	6.40	0.00	N. 1X160 AH		
B	Battery	20.0	7.70	0.00	N. 1X80 AH		



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
E	0.17	1.46	2.39	3.74	4.82	59.86		04/06/2018	NORTH	Carbon						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovr/tp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
L	0.09	0.78	1.46	2.67	3.87	5.32	18.10	107%	48.43	Y	N		11/05/2019	NORTH	Carbon	JM
K	0.09	0.75	1.45	2.65	3.87	5.29	18.10	106%	48.16	Y	N		11/05/2019	NORTH	Carbon	JL
J	0.09	0.71	1.33	2.54	3.84	5.30	18.33	106%	47.78	Y	N		15/06/2018	NORTH	Carbon	JH
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
I	21.98	17.69	19.84	11.10	11.00	183.15	asym		11/05/2019	NORTH	Nylon	A2				