

BOAT Name S'AVENC Sail Nr ESP-8520	GPH 653,0	HULL Length Overall 12,233 m Maximum Beam 3,980 m Displacement 7.970 kg Draft 1,977 m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,333% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension IMS L 10,421 VCGD 0,185 Sink 22,38 kg/mm RL 7,394 VCGM 0,184 WS 30,17 m²
GENERAL Class BAVARIA 40 Designer Builder BAVARIA Series 04/2001 Age 07/2001 Age Allowance 0,455% Offset File Bava40A.off - 15/1/2015 23:27:50 Measurement by Tacha Montaner - 01/04/2011		



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SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	634,5			713,0		
Time On Time	0,9457			0,9467		
Performance Line	PLT	PLD		PLT	PLD	
	0,766	76,2		0,702	130,3	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8809	1,1752	1,3475	0,6711	0,9330	1,1196

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1161,2	959,4	851,7	776,6	735,6	714,8	701,4
52°	742,7	623,5	551,4	510,5	492,6	484,9	479,7
60°	692,7	584,4	520,5	491,0	476,4	468,8	463,4
75°	653,1	551,5	499,9	476,9	462,6	451,5	437,4
90°	646,4	538,4	489,9	467,6	454,9	446,3	426,7
110°	666,2	546,0	488,6	465,1	445,4	429,2	405,8
120°	684,0	564,7	498,5	470,5	451,0	431,8	402,2
135°	764,3	625,2	534,6	489,6	466,5	447,8	411,2
150°	922,9	724,8	608,9	531,0	489,9	467,4	431,1
Run VMG	1065,7	837,0	702,3	605,9	538,5	496,3	453,6

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Number **852001**
ORC Ref **ESP00009915**
Issued On **15/1/2015**
VPP Ver. **2015 1.00**
Valid until **31/12/2015**

Selected Courses							
Windward / Leeward	1113,4	898,2	777,0	691,2	637,0	605,5	577,5
Circular Random	914,5	732,5	632,8	573,5	536,4	512,3	483,1
Ocean for PCS	976,2	765,7	646,6	573,1	524,9	491,4	445,9
Non Spinnaker	976,1	776,6	666,0	599,3	557,1	529,6	497,7

Crew Weight

Declared **550 kg**
Default* **729 kg**
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	45,3°	43,6°	43,7°	44,0°	42,7°	41,8°	41,7°
Beat VMG	3,10	3,75	4,23	4,64	4,89	5,04	5,13
52°	4,85	5,77	6,53	7,05	7,31	7,42	7,50
60°	5,20	6,16	6,92	7,33	7,56	7,68	7,77
75°	5,51	6,53	7,20	7,55	7,78	7,97	8,23
90°	5,57	6,69	7,35	7,70	7,91	8,07	8,44
110°	5,40	6,59	7,37	7,74	8,08	8,39	8,87
120°	5,26	6,37	7,22	7,65	7,98	8,34	8,95
135°	4,71	5,76	6,73	7,35	7,72	8,04	8,76
150°	3,90	4,97	5,91	6,78	7,35	7,70	8,35
Run VMG	3,38	4,30	5,13	5,94	6,69	7,25	7,94
Gybe Angles	145,4°	151,3°	154,0°	163,8°	172,3°	177,5°	179,0°

Special Scoring

	ToD	ToT
Double H.GPH	654,5	0,9168
Double H.OSN	636,9	0,9420
Non Spin GPH	688,0	0,8721
Non Spin OSN	665,3	0,9019
N/S Perf. Line	48,8	0,689

Sails Limitations

Headsails	Spinnakers
6	3

Class Division Length

CDL = **8,908**

Storm Sails Areas

Heavy Weather Jib **27,12**
Storm Jib (JL=9,21) **10,05**
Storm Triesail **11,14**

Owner

BOAT	
Name S'AVENC	Sail Nr ESP-8520
File (0)	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/04/2011		SG 1,0280	
FFM 1,452	FF 1,448	SFFP 0,910	
FAM 1,150	FA 1,161	SAFP 10,977	
W1 70,825	PD1 402,6	WD 11,570	
W2 70,825	PD2 402,6	GSA 1,0	
W3 70,825	PD3 402,8	RSA 1,0	
W4 70,825	PD4 402,8	PLM 9000,0	
LCF from stem on CL / on sheer		6,659 / 6,940	
Maximum beam station from stem		7,181	
RM Measured / Default		160,2 / 173,9	
Limit of positive stability / Stab.Index		110,7° / 113,0	
Freeboard at mast at 4,420		1,268	

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 Yes		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13,400	E 4,750	MDT1 0,150	MW 0,250
IG 14,110	J 4,420	MDL1 0,250	GO 0,270
ISP 14,715	SFJ	MDT2 0,150	BD 0,175
BAS 1,860	SPL	MDL2 0,250	MWT 217,00
FSP 0,096	TPS 4,950	TL	MCG 5,330



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0,240		
Type Folding 2 blades	PBW 0,122		
Twin Screw No	PIPA 0,0034		
ST1 0,042	ST3 0,180	ST5 0,270	
ST2 0,180	ST4 0,112	EDL 2,250	

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Number 852001	
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COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0,295	1,06	1,78	2,97	3,96	37,73	38,48	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric	SL	SMG	SF			102,92		SL · (SF + 4·SMG) / 6	
Asymmetric	SLU	SLE	ASL	AMG	ASF	77,28	77,42	ASL · (ASF + 4·AMG) / 6	
	14,65	11,89	13,27	7,05	6,74				

HEADSAILS												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0,06	0,71	1,43	2,97	4,57	6,12	13,43	40,50			28/11/2014	Unknow	05121401

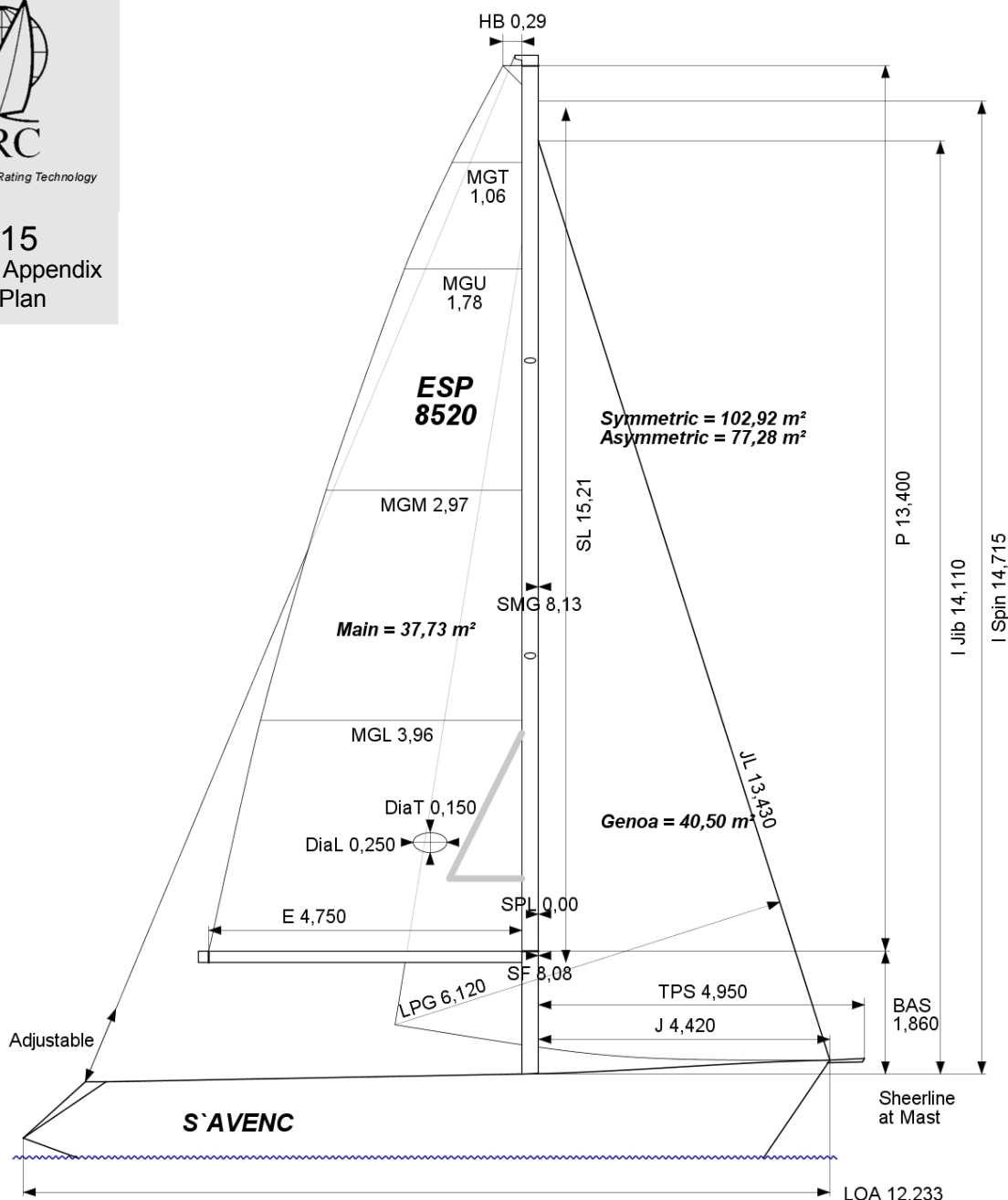
MEASUREMENT INVENTORY				
Measurer Tacha Montaner E-222				
Date 01/04/2011				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
4	Anchor	16,0	5,42	Danfort
25	Chain	5,0	5,42	25-mts-cabe
4	Chain		5,42	12-mts-cad-10-
4	Tools	3,0	6,60	Caja-
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo MD22L	50 HP	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
4	Deck-Gear	6,0	Eseotas/manetas	

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>
1	Tank	GAS		150,0	8,90		400,0	
1	Tank	H2O		150,0	8,90		0,0	
1	Tank	H2O		150,0	2,20		0,0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
1	Battery		6,42	60 Amp				
4	Battery		6,42	4X100 AMP				



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
Elsv trom	0,295	1,06	1,78	2,97	3,96	37,67	Tacha	14/02/2013		Unknown	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
L2	0,06	0,71	1,43	2,97	4,57	6,12	13,43	138%	40,50			Tacha	28/11/2014		Unknown	05121401

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S11	15,21	8,13	8,08	102,92	Tacha	28/11/2014		Unknown	28111401

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A1	14,65	11,89	13,27	7,05	6,74	77,28	asym				Nylon	