

BOAT Name CARONTE Sail Nr ESP-3039	GPH 633,2	HULL Length Overall 11,496m Maximum Beam 3,240m Displacement 4.986kg Draft 1,927m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,295% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class SELECTION 37 Designer JOUBERT/NIVELT Builder JEANNEAU Series 05/1985 Age 01/1987 Age Allowance 0,487% Offset File ECARONTEA.OFF - 30/07/2013 Measurement by - 06/09/2004		IMSL 10,196m VCGD 0,327m Sink 18,69kg/mm RL 8,287m VCGM 0,273m WS 24,76m² LSM0 9,840m Displacement/Length ratio 5,2332



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	616,2			691,0		
Time on Time	0,9738			0,9769		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	729,1	559,4	499,6	949,6	695,1	602,0
Time on Time	0,9258	1,2067	1,3510	0,7108	0,9711	1,1213

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1045,1	859,7	768,2	733,5	718,5	711,7	706,1
52°	682,9	573,6	523,0	506,8	500,1	496,8	492,2
60°	644,6	547,5	506,3	491,2	485,1	481,8	478,5
75°	615,8	529,2	493,6	476,5	466,0	460,3	455,3
90°	621,8	530,0	491,4	471,2	455,1	441,6	426,6
110°	653,5	537,4	488,1	462,8	440,7	424,3	404,6
120°	679,9	554,6	495,9	468,0	444,2	420,6	387,2
135°	764,8	616,3	530,3	488,5	463,7	439,5	391,2
150°	920,2	719,8	602,8	527,8	489,3	465,6	419,7
Run VMG	1062,5	831,2	695,7	604,6	542,6	499,7	452,5

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VPP Ver. **2019 1.01**
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Crew Weight
Default 673kg
Maximum **500kg**
Minimum* **375kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	642,7	0,9335
Double H.OSN	626,9	0,9570
Non Spin GPH	654,2	0,9172
Non Spin OSN	635,8	0,9436

Selected Courses							
Windward / Leeward	1053,8	845,4	732,0	669,0	630,6	605,7	579,3
Circular Random	875,5	705,0	613,9	561,5	529,7	509,1	483,5
Coastal / Long Distance	1054,7	794,0	657,5	580,9	540,4	508,9	459,6
Non Spinnaker	913,6	731,7	633,7	576,7	541,9	519,2	490,6

Sails Limitations

Headsails	Spinnakers
5	3

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	42,8°	41,3°	40,6°	39,9°	39,5°	39,4°	39,5°
Beat VMG	3,44	4,19	4,69	4,91	5,01	5,06	5,10
52°	5,27	6,28	6,88	7,10	7,20	7,25	7,31
60°	5,58	6,58	7,11	7,33	7,42	7,47	7,52
75°	5,85	6,80	7,29	7,55	7,72	7,82	7,91
90°	5,79	6,79	7,33	7,64	7,91	8,15	8,44
110°	5,51	6,70	7,37	7,78	8,17	8,48	8,90
120°	5,29	6,49	7,26	7,69	8,11	8,56	9,30
135°	4,71	5,84	6,79	7,37	7,76	8,19	9,20
150°	3,91	5,00	5,97	6,82	7,36	7,73	8,58
Run VMG	3,39	4,33	5,17	5,95	6,63	7,20	7,96
Gybe Angles	144,8°	149,7°	151,7°	155,7°	171,4°	180,0°	180,0°

Class Division Length
CDL = **9,242**

Storm Sails Areas

Heavy Weather Jib	18,71
Storm Jib (JL=7,66)	6,93
Storm Trysail	11,08

Owner

BOAT	
Name CARONTE	Sail Nr ESP-3039
File E3039	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 27/03/2016		SG 1,0270
FFM 1,178	FF 1,176	SFFP 0,797
FAM 0,870	FA 0,871	SAFP 9,633
W1 62,4	PD1 567,7	WD 10,300
W2 62,4	PD2 578,7	GSA 1,0
W3 62,4	PD3 575,5	RSA 1,0
W4 62,4	PD4 570,0	PLM 9000,0
LCF from stem on CL / on sheer		6,218 / 6,427
Maximum beam station from stem		6,603
RM Measured		88,3kg-m
RM Default		110,1kg-m
Limit of positive stability / Stab.Index		98,3° / 100,8
Freeboard at mast at 3,770		1,061



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IMS Measurement
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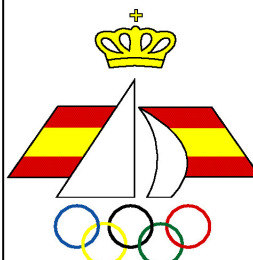
RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 2		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13,050	E 4,850	MDT1 0,104	MW 0,139
IG 11,710	J 3,720	MDL1 0,139	GO 0,158
ISP 11,860	SFJ 0,050	MDT2 0,090	BD 0,140
BAS 1,420	SPL 3,650	MDL2 0,105	MWT
FSP 0,062	TPS	TL 2,030	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft exposed	PRD 0,405	
Type Folding 2 blades	PBW 0,110	
Twin Screw No	PIPA 0,0025	
PSA 17,000	PHL 0,060	ST3 0,078 ESL 0,920
PSD 0,022	ST1 0,023	ST4 0,053
PHD 0,040	ST2 0,072	ST5 0,205

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COMMENTS	
MODIFICACION AÑADIDO JUPETE	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,190	1,01	1,86	3,18	4,20	38,34	39,28	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	11,77	11,77	11,77	6,34	6,21	61,93		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

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	0,66	1,27	2,54	3,88	5,22	11,84	30,63			04/12/2017	Unknow	
0,08	0,67	1,26	2,52	3,85	5,20	11,45	29,44			29/02/2016	Kevlar	

MEASUREMENT INVENTORY				
Measurer ESP 386				
Date 27/03/2016				
Comment TANGONES EN LCF-6,23				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
EN	Engine	YANMAR	40 CV	
Id	Item	Weight Description		

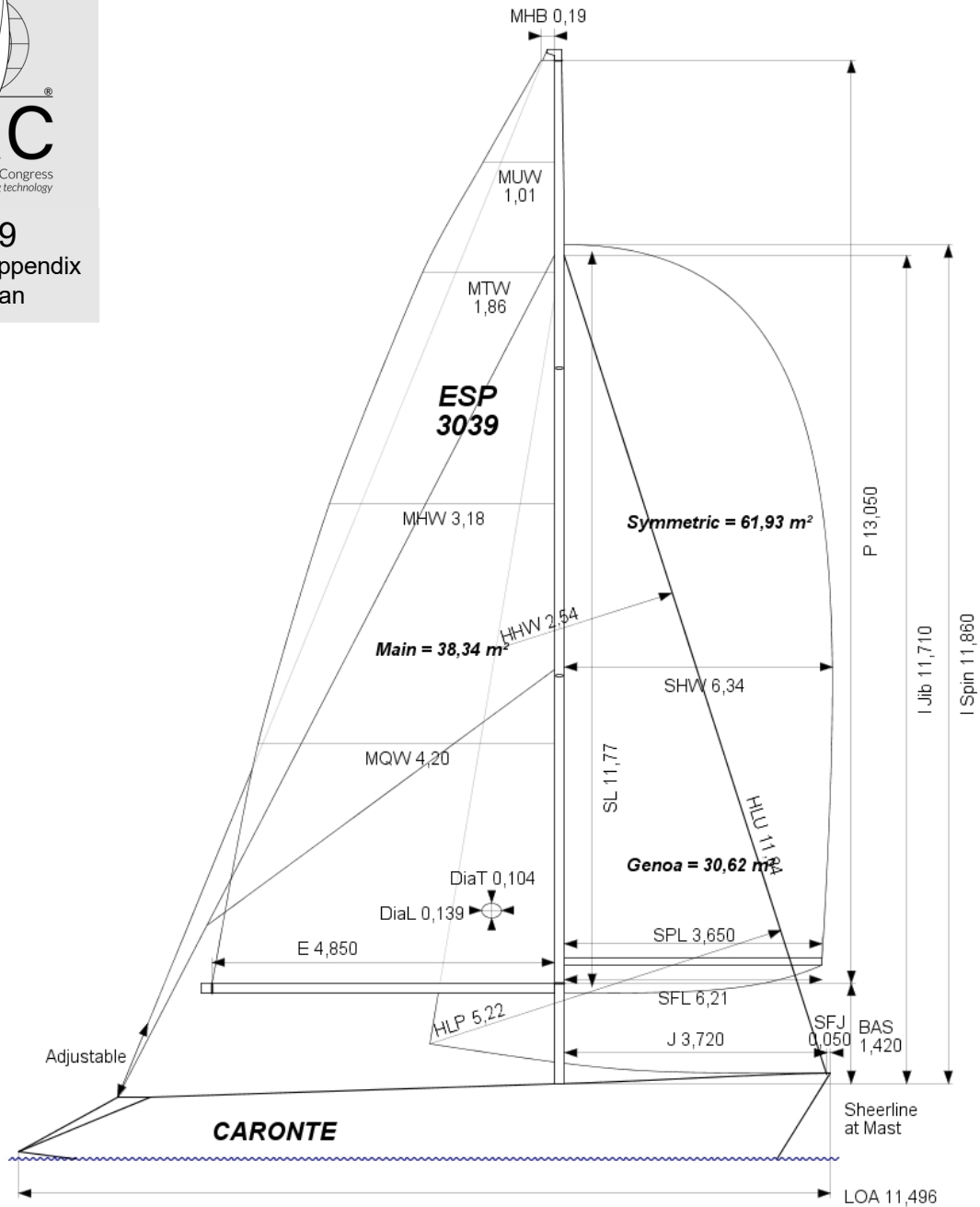
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
GA	Tank	GAS OIL	INOX	60,0	9,10		10,0
WA	Tank	AGUA	FLEXIBLE	150,0	8,40		0,0
Id	Item	Weight	Distance	VCG Description			
BAT	Battery	7,90		95 Ah			
BAT	Battery	7,90		95 Ah			
BAT	Battery	6,80		95 Ah			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M-1	0,19	1,01	1,86	3,18	4,20	38,35		29/02/2016	AD VELA	Kevlar	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
002	0,09	0,66	1,27	2,54	3,88	5,22	11,84	140%	30,63				04/12/2017	NS		Unknow
J-1	0,08	0,67	1,26	2,52	3,85	5,20	11,45	140%	29,44				29/02/2016	QUANTUM		Kevlar

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S-1	11,77	11,77	11,77	6,34	6,21	61,93		29/02/2016	ELITE	Nylon	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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