

BOAT Name VELOS Sail Nr GRE-440	GPH 540.8	HULL Length Overall 12.795m Maximum Beam 3.196m Displacement 5,921kg Draft 2.832m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Light Carbon Rudder Yes Crew Arm Extension
GENERAL Class IMS 43 Designer FARR Builder COOKSON Series 05/2002 Age 05/2002 Age Allowance 0.487% Offset File ATALAN14.OFF - 03/05/2002 10:23:34 Measurement by - 17/09/2003		IMSLS 11.457m VCGD -0.450m Sink 20.88kg/mm RL 11.135m VCGM -0.459m WS 29.34m² LSM0 11.176m Displacement/Length ratio 4.2417



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	528.6			592.6		
Time on Time	1.1352			1.1391		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	606.5	483.6	431.6	785.6	597.6	523.1
Time on Time	1.1130	1.3957	1.5640	0.8592	1.1295	1.2903

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	839.7	702.0	653.4	632.8	622.7	609.7	606.7
52°	554.8	477.5	457.2	449.0	444.6	441.5	435.0
60°	525.9	462.6	444.2	436.1	431.2	428.1	419.0
75°	505.7	452.9	430.7	416.7	408.4	403.1	395.5
90°	511.7	454.8	429.2	407.2	390.1	379.6	368.8
110°	552.3	462.6	428.0	403.5	387.2	373.5	340.8
120°	572.7	471.8	434.0	403.3	375.3	358.1	329.3
135°	644.8	516.0	456.3	426.4	396.7	367.6	306.4
150°	771.6	614.7	515.5	459.6	430.5	403.0	347.4
Run VMG	890.9	709.8	595.2	524.8	479.4	445.2	393.7

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Number **01328P**
ORC Ref **GRE01016323**
Issued On **18/09/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight

Default **807kg**
Maximum **820kg**
Minimum* **615kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	563.9	1.0640
Non Spin OSN	552.0	1.0869

Selected Courses							
Windward / Leeward	865.3	705.9	624.3	578.8	551.1	527.5	500.2
Circular Random	733.6	597.3	525.6	484.2	458.0	439.5	412.9
Coastal / Long Distance	867.9	664.9	564.0	504.1	470.1	441.1	395.6
Non Spinnaker	775.0	626.8	547.5	501.0	471.6	451.5	424.6

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	41.8°	40.3°	38.6°	38.1°	37.8°	37.1°	37.5°
Beat VMG	4.29	5.13	5.51	5.69	5.78	5.90	5.93
52°	6.49	7.54	7.87	8.02	8.10	8.15	8.28
60°	6.85	7.78	8.10	8.26	8.35	8.41	8.59
75°	7.12	7.95	8.36	8.64	8.81	8.93	9.10
90°	7.04	7.92	8.39	8.84	9.23	9.48	9.76
110°	6.52	7.78	8.41	8.92	9.30	9.64	10.56
120°	6.29	7.63	8.29	8.93	9.59	10.05	10.93
135°	5.58	6.98	7.89	8.44	9.07	9.79	11.75
150°	4.67	5.86	6.98	7.83	8.36	8.93	10.36
Run VMG	4.04	5.07	6.05	6.86	7.51	8.09	9.14
Gybe Angles	141.7°	141.3°	147.9°	155.5°	168.7°	180.0°	180.0°

Class Division Length

CDL = 11.297

Storm Sails Areas

Heavy Weather Jib **33.83**
Storm Jib (JL=10.29) **12.53**
Storm Trysail **18.57**

Owner

BOAT	
Name VELOS	Sail Nr GRE-440
File GR44	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 25/04/2019				SG 1.0270	
FFM	1.445	FF	1.442	SFFP	0.450
FAM	1.195	FA	1.199	SAFP	12.560
W1	92.7	PD1	469.6	WD	11.060
W2	92.7	PD2	464.7	GSA	1.0
W3	92.7	PD3	469.9	RSA	1.0
W4	92.7	PD4	471.4	PLM	9000.0
LCF from stem on CL / on sheer				6.940 / 7.091	
Maximum beam station from stem				8.500	
RM Measured				172.2kg-m	
RM Default				172.4kg-m	
Limit of positive stability / Stab.Index				145.3° / 151.3	
Freeboard at mast at 4.870				1.313	



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RIG					
Forestay Tension	Aft	Spreaders		3	
Inner Stay	None Fitted	Runners		2	
Carbon Mast	Yes	Jumper Struts		Yes	
Taper Hollows	No	Jib Furler		No	
Fiber Rigging	No	Main Furler		No	
Lenticular Rigging	No	Without Backstay		No	
Articulated Bowsprit	No				
P	16.930	E	6.265	MDT1	0.142
IG	15.793	J	4.520	MDL1	0.244
ISP	15.843	SFJ	0.350	MDT2	0.094
BAS	1.995	SPL	4.696	MDL2	0.122
FSP	0.064	TPS		MWT	203.20
		TL	3.340	MCG	5.022

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.410
Type	Folding 2 blades	PBW	0.118
Twin Screw	No	PIPA	0.0036
ST1	0.048	ST3	0.178
ST2	0.178	ST4	0.112
		ST5	0.250
		EDL	0.675

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COMMENTS	
ex "ATALANTI XIV"	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.230	1.37	2.36	3.98	5.18	62.66	64.04	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16.03	16.03	16.03	8.47	8.04	112.00		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	0.72	1.39	2.78	4.25	5.74	16.16	45.82	Y		13/09/2019	Carbon	M

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 25/04/2019				
Comment				
<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>	
1	Engine	YANMAR	40 HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

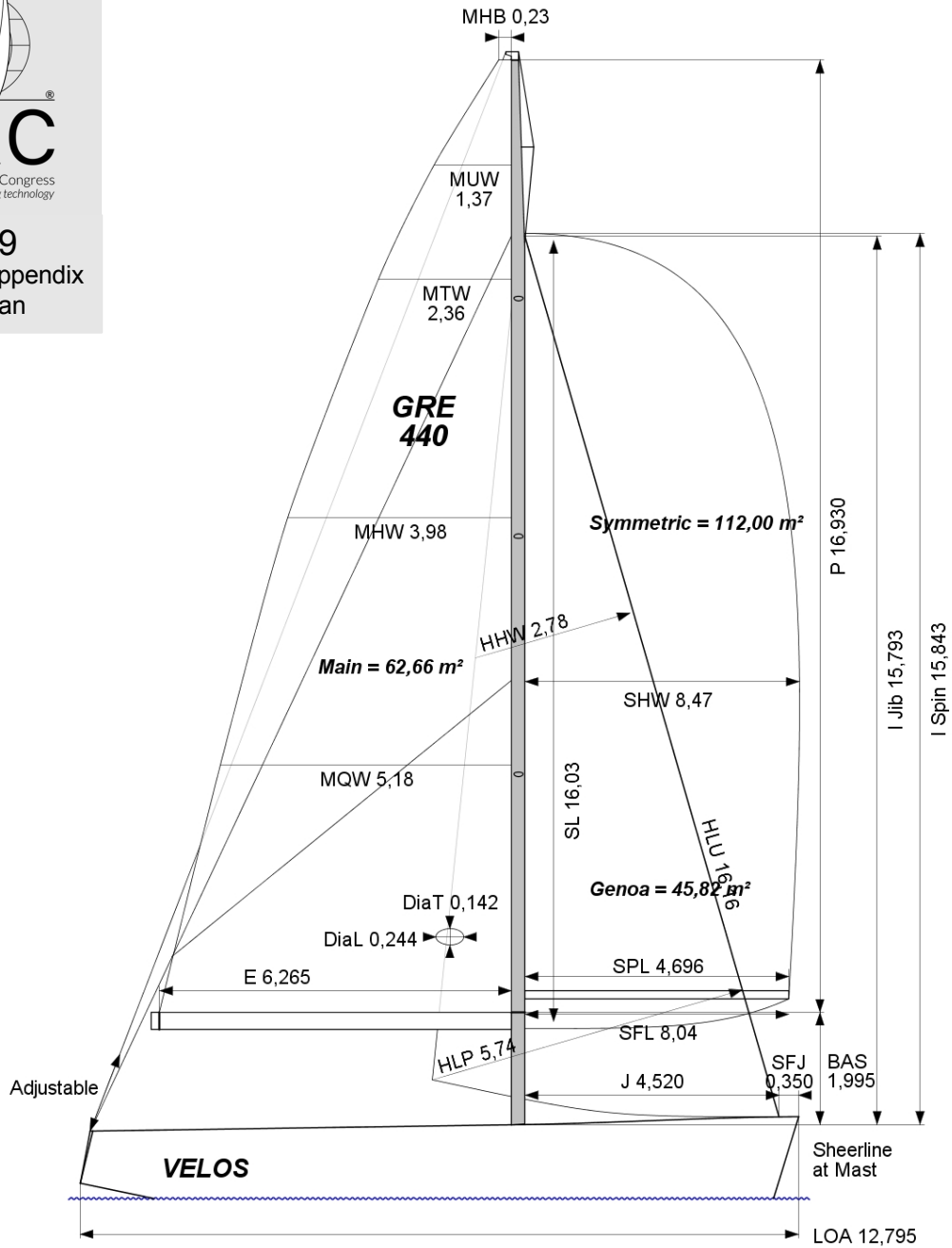
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
1	Tank	FUEL	INOX	60.0	9.40		33.0
2	Tank	WATER	BLADDER	30.0	6.30		0.0
3	Tank	WATER	BLADDER	30.0	6.30		0.0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
1	Ballast	216.0	7.00	LEAD PIGS (equal P & S)			
2	Ballast	50.0	8.10	LEAD PIGS (C)			
1	Battery		7.00	2 x ~100 Ah (P & S)			
2	Battery		7.40	2 x ~100 Ah (P & S)			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	0,23	1,37	2,36	3,98	5,18	62,67		14/09/2019	NORTH	Carbon	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,09	0,72	1,39	2,78	4,25	5,74	16,16	127%	45,82	Y			13/09/2019	NORTH	Carbon	M

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	16,03	16,03	16,03	8,47	8,04	112,00		21/01/2004	NORTH	Nylon	S2 (2004)

ASYMMETRIC SPINNAKERS (0)

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