

BOAT
Name ALOUSTINA Sail Nr GRE-49413

GPH
705.7

HULL					
Length Overall	9.785 m				
Maximum Beam	3.316 m				
Displacement	4,580 kg				
Draft	1.827 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0.448%				
Fwd Accommodation	Yes				
Hull Construction	Solid				
Carbon Rudder	No				
Crew Arm Extension					
IMS L	8.301	VCGD	-0.009	VCGM	0.094
Sink	14.66 kg/mm	Wetted Area	20.63 m²		




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GENERAL
Class FIRST 32
Designer J. BERRET
Builder BENETEAU
Series 01/1981
Age 01/1982
Age Allowance 0.975%
Offset File H107.BOF - 12/6/2013 18:08:14
Measurement by SFAK/KASIOT/KONTOG - 02/04/2005

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	675.0			760.1		
Time On Time	0.8888			0.8881		
Performance Line	PLT	PLD		PLT	PLD	
	0.758	112.9		0.737	194.2	
Triple Number	Low	Medium	High	Low	Medium	High
	0.7868	1.0333	1.2267	0.6337	0.8845	1.0254

Rating Office

Offshore
Racing
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1217.3	979.3	864.1	812.5	782.7	763.9	750.2
52°	777.6	636.9	590.0	565.3	551.8	543.6	535.0
60°	722.5	610.9	572.1	548.9	534.0	525.7	516.8
75°	679.7	593.5	558.1	535.2	517.4	503.8	490.2
90°	691.7	598.4	555.8	529.1	515.2	502.3	478.1
110°	715.8	597.2	553.2	523.7	499.2	478.7	457.0
120°	746.3	610.3	561.7	531.3	506.7	484.8	449.3
135°	846.9	664.5	590.3	552.8	525.8	502.5	463.2
150°	1006.9	780.6	648.5	586.8	552.2	526.2	483.5
Run VMG	1162.6	901.3	745.1	652.0	597.6	562.4	514.2

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Selected Courses							
Windward / Leeward	1190.0	940.3	804.6	732.2	690.1	663.2	632.2
Circular Random	979.7	786.8	683.8	624.5	588.4	564.9	535.3
Ocean for PCS	1045.2	822.0	699.0	625.3	577.9	544.9	498.3
Non Spinnaker	1035.3	824.9	710.8	644.2	603.3	576.7	544.2

Crew Weight	
Declared	519 kg
Default*	519 kg
Non Manual Pwr	No

Special Scoring		
	ToD	ToT
D. Hand OSN	678.3	0.8845
Non Spin. OSN	703.3	0.8532
N/S Perf. Line	79.4	0.684

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	45.0°	45.1°	41.7°	39.7°	38.3°	37.5°	37.6°
Beat VMG	2.96	3.68	4.17	4.43	4.60	4.71	4.80
52°	4.63	5.65	6.10	6.37	6.52	6.62	6.73
60°	4.98	5.89	6.29	6.56	6.74	6.85	6.97
75°	5.30	6.07	6.45	6.73	6.96	7.15	7.34
90°	5.20	6.02	6.48	6.80	6.99	7.17	7.53
110°	5.03	6.03	6.51	6.87	7.21	7.52	7.88
120°	4.82	5.90	6.41	6.78	7.10	7.43	8.01
135°	4.25	5.42	6.10	6.51	6.85	7.16	7.77
150°	3.58	4.61	5.55	6.13	6.52	6.84	7.45
Run VMG	3.10	3.99	4.83	5.52	6.02	6.40	7.00
Gybe Angles	144.8°	147.8°	152.9°	165.0°	171.9°	174.4°	175.2°

Sails Limitations		
Genoas	Jibs	Spinnakers
3	2	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	20.94
Storm Jib (JL=8.09)	7.75
Storm Trysail	6.70

Owner

BOAT	
Name ALOUSTINA	Sail Nr GRE-49413
File GR49413.dxt	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay Adjustable	Runners 0
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 10.590	E 3.615 MDT1 0.119 TL 0.000
IG 12.215	J 3.653 MDL1 0.175 MWT
ISP 12.175	SFJ 0.000 MDT2 0.119 MCG
SPS 2.950	SPL 3.630 MDL2 0.175 CPW 1.879
BAS 1.335	TPS MW 0.175 BD 0.130
BAL 0.185	FSP 0.064 GO 0.245 BWT

MIZZEN RIG AND SAILS	
N/A	

COMMENTS
ex "VIKING'S STAR"

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining		Flotation date 28/05/2010 SG 1.0270	
FFM 1.132	FF 1.131	SFFP 0.280	
FAM 0.927	FA 0.927	SAFP 8.855	
W1 51.500	PD1 262.0	WD 10.240	
W2 51.500	PD2 262.0	GSA 50.3	
W3 51.500	PD3 262.0	RSA 6082.1	
W4 51.500	PD4 262.0	PLM 2140.0	
LCF from stem on CL / on sheer		5.291 / 0.000	
Maximum beam station from stem		5.910	
RM Measured / Default		74.8 / 78.7	
Limit of positive stability / Stab.Index		113.1° / 112.9	
Freeboard at mast at 3.653		1.057	

PROPELLER			
Installation Shaft	PRD 0.360		
Type Feathering 2 blades	PBW 0.132		
Twin Screw No	PIPA 0.0052		
PSA 22.000	PHL 0.200	ST3 0.100	ESL 0.765
PSD 0.025	ST1 0.017	ST4 0.050	
PHD 0.071	ST2 0.075	ST5 0.200	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.140	0.74	1.31	2.21	2.93	22.07	22.42	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.06	0.69	1.34	2.67	4.02	12.27	5.35	32.91	
	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)								
Symmetric	SL	SMG	SF						
	11.95	6.72	6.48	66.44					
	SL · (SF + 4·SMG) / 6								
Asymmetric Not Available									
Code Zero Not Available									

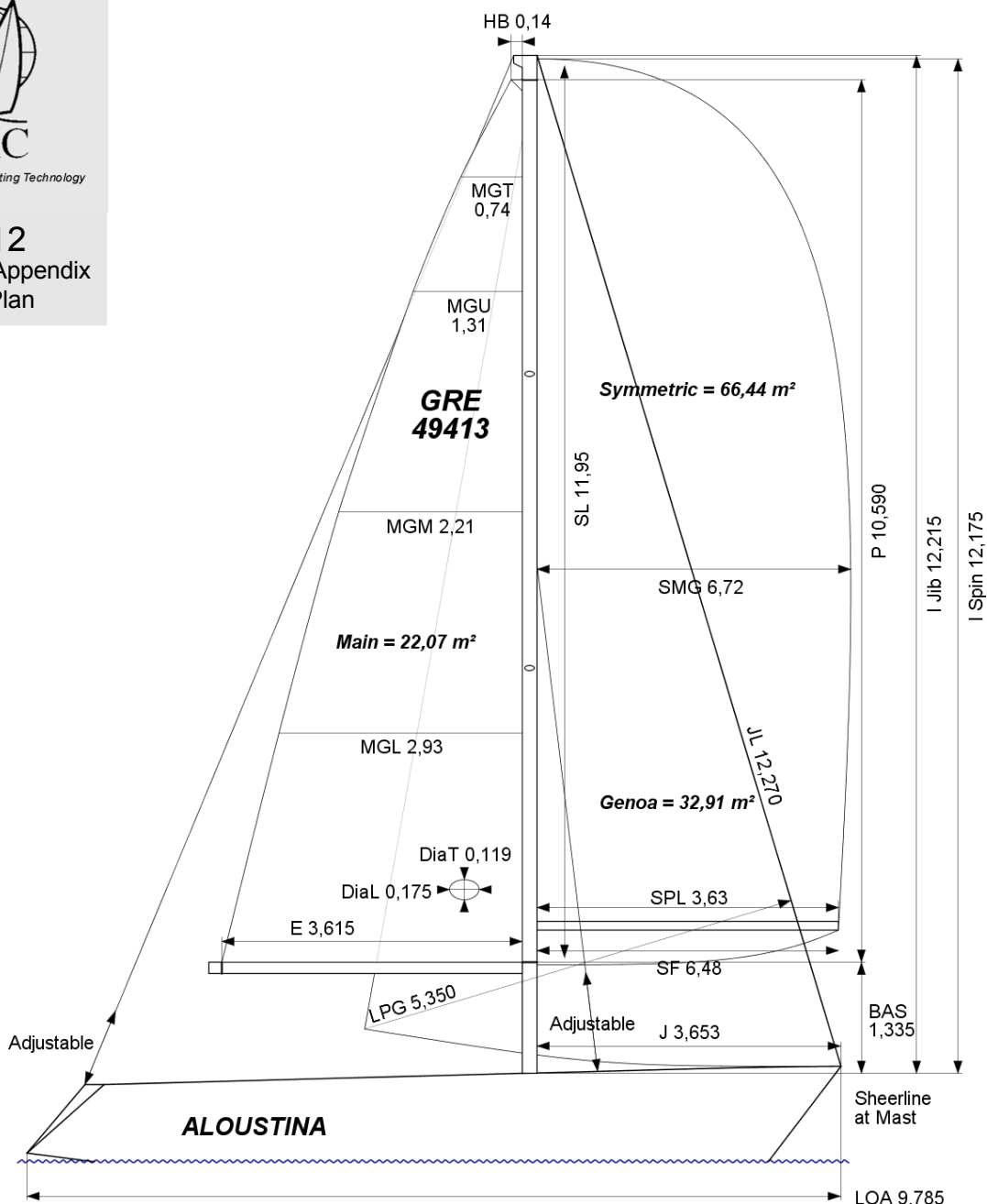
MEASUREMENT INVENTORY			
Measurer SFAKIANAKI/KASSIOTIS/KONTOGIANNIS			
Date 28/05/2010			
Comment			
Id	Item	Weight	Distance VCG Description
OR	Anchor	15.0	4.05
OR	Chain	37.0	4.05 CHAIN
TO	Tools	10.0	6.65 TOOLS
Id	Item	Maker	Model
OR	Engine	YANMAR	15hp
Id	Item	Weight	Description
SH	Deck Gear	5.0	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
W2	Tank	WATER	INOX	75.0	4.55		0.0 PORT
W1	Tank	WATER	INOX	75.0	4.55		0.0 STARBOARD
F	Tank	FUEL	INOX	60.0	7.95		15.0
Id	Item	Weight	Distance	VCG	Description		
BAT	Battery	30.0	6.65		2x45 Ah		
OR	Misc	27.0	1.05		WINDLASS		



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.140	0.74	1.31	2.21	2.93	22.07	KASIOTIS	08/03/2011	KAKITSIS	Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.06	0.69	1.34	2.67	4.02	5.35	12.27	146%	32.91	KASIOTIS	12/04/2009	KAKITSIS	Pentex	
1	0.04	0.54	1.08	2.23	3.46	4.74	12.23	130%	28.08	KASIOTIS	13/04/2010	KAKITSIS	Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	11.95	6.72	6.48	66.44	STAVRAS	12/05/2008		Unknown	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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