

BOAT
Name ANIMA
Sail Nr GRE-951

GPH
659.5

HULL					
Length Overall	12.320 m				
Maximum Beam	3.894 m				
Displacement	8,376 kg				
Draft	2.038 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0.377%				
Fwd Accommodation	Yes				
Hull Construction	Solid				
Carbon Rudder	No				
Crew Arm Extension					
IMS L	11.265	VCGD	0.081	VCGM	0.149
Sink	25.62 kg/mm	Wetted Area	34.81 m²		



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2013
ORC International
Certificate

GENERAL
Class OCEANIS 411 CLIPPR
Designer
Builder BENETEAU
Series 01/1998
Age 07/2001
Age Allowance 0.488%
Offset File ANIMA.OFF - 25/4/2013 16:42:04
Measurement by NAKIS/DIMOU - 26/04/2005

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	631.1			718.7		
Time On Time	0.9507			0.9392		
Performance Line	PLT	PLD		PLT	PLD	
	0.707	41.8		0.624	76.9	
Triple Number	Low	Medium	High	Low	Medium	High
	0.8504	1.1728	1.3738	0.6427	0.9245	1.1395

Rating Office

Offshore
Racing
Congress



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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1197.1	966.6	844.4	764.6	716.9	688.3	663.6
52°	758.7	622.9	546.7	500.9	481.9	472.6	464.3
60°	701.7	583.0	514.4	480.5	465.2	458.0	450.3
75°	658.0	551.3	493.0	467.1	451.6	440.0	428.1
90°	663.8	556.8	496.7	466.8	453.5	439.5	414.8
110°	690.6	561.4	491.1	460.9	440.6	421.5	399.2
120°	714.2	579.3	501.8	466.8	447.0	428.1	390.6
135°	822.5	651.7	548.9	492.0	464.0	445.0	407.4
150°	995.6	768.6	630.5	546.3	494.4	466.6	430.2
Run VMG	1149.6	887.4	728.0	625.9	555.6	505.0	454.1

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Number 000266
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VPP Ver. 2013 1.01
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Selected Courses							
Windward / Leeward	1173.4	927.0	786.2	695.2	636.3	596.6	558.9
Circular Random	941.6	746.4	637.9	572.5	531.2	503.9	471.0
Ocean for PCS	1006.6	780.7	652.0	572.2	519.9	483.6	435.1
Non Spinnaker	991.8	782.7	665.7	594.5	548.9	518.7	482.1

Crew Weight	
Declared	640 kg
Default*	821 kg
Non Manual Pwr	No

Special Scoring	
ToD	ToT
D. Hand OSN	634.2 0.9461
Non Spin. OSN	659.0 0.9105
N/S Perf. Line	23.7 0.652

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	46.1°	44.5°	43.9°	43.9°	42.3°	40.8°	39.6°
Beat VMG	3.01	3.72	4.26	4.71	5.02	5.23	5.42
52°	4.75	5.78	6.59	7.19	7.47	7.62	7.75
60°	5.13	6.18	7.00	7.49	7.74	7.86	7.99
75°	5.47	6.53	7.30	7.71	7.97	8.18	8.41
90°	5.42	6.47	7.25	7.71	7.94	8.19	8.68
110°	5.21	6.41	7.33	7.81	8.17	8.54	9.02
120°	5.04	6.21	7.17	7.71	8.05	8.41	9.22
135°	4.38	5.52	6.56	7.32	7.76	8.09	8.84
150°	3.62	4.68	5.71	6.59	7.28	7.72	8.37
Run VMG	3.13	4.06	4.94	5.75	6.48	7.13	7.93
Gybe Angles	145.1°	149.5°	149.5°	160.9°	169.4°	174.5°	178.8°

Sails Limitations		
Genoas	Jibs	Spinnakers
1	0	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	29.28
Storm Jib (JL=9.57)	10.85
Storm Trysail	9.93

Owner

BOAT	
Name ANIMA	Sail Nr GRE-951
File GR951.dxt	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 12.660	E 4.480 MDT1 0.114 TL 0.000
IG 14.550	J 4.970 MDL1 0.218 MWT
ISP 14.550	SFJ 0.000 MDT2 0.114 MCG
SPS 2.500	SPL 4.970 MDL2 0.218 CPW
BAS 1.800	TPS 0.080 MW 0.218 BD 0.175
BAL 0.135	FSP 0.080 GO 0.278 BWT

MIZZEN RIG AND SAILS	
N/A	


COMMENTS

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 26/04/2005		SG 1.0250	
FFM 1.416	FF 1.490	SFFP 0.500	
FAM 1.069	FA 1.040	SAFP 11.230	
W1 85.000	PD1 205.0	WD 13.310	
W2 85.000	PD2 205.0	GSA 50.3	
W3 85.000	PD3 205.0	RSA 5592.0	
W4 85.000	PD4 205.0	PLM 2138.0	
Max. beam station / LCF from stem		7.505 / 7.066	
RM Measured / Default		204.6 / 192.6	
Limit of positive stability		109.5°	
Stability Index		113.7	
Freeboard at mast at 4.970		1.243	

PROPELLER			
Installation Shaft	PRD 0.500		
Type Solid 3 blades	PBW 0.020		
Twin Screw No	PIPA 0.0150		
PSA	PHL 0.100	ST3	ESL
PSD 0.030	ST1	ST4	
PHD 0.055	ST2	ST5	

MOVEABLE BALLAST	
N/A	


CENTERBOARD	
N/A	



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IMS Measurement
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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.140	0.94	1.70	2.92	3.83	34.09	34.83	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.00	0.93	1.86	3.72	5.57	14.25	7.43	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF				Area	Formula	
	14.59	8.92	8.90				108.40	SL · (SF + 4·SMG) / 6	
Asymmetric Not Available									
Code Zero Not Available									

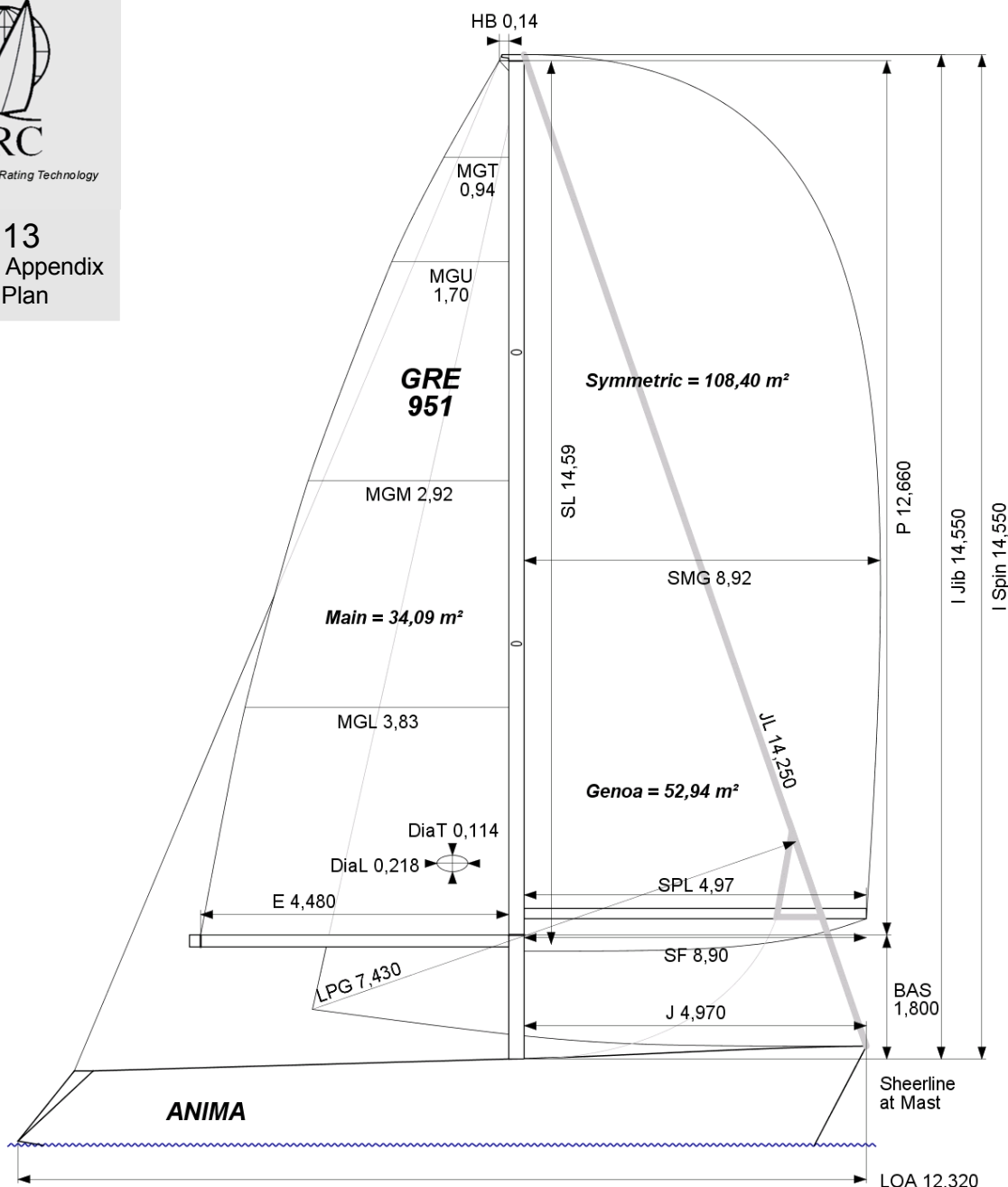
MEASUREMENT INVENTORY			
Measurer DIMOU GRE-9			
Date 26/04/2005			
Comment			
Id	Item	Weight	Distance
1	Anchor	17.0	0.00
1	Chain	250.0	1.00
1	Tools	20.0	9.50
Id	Item	Maker	Model
1	Engine	VOLVO PENTA	59 HP
Id	Item	Weight	Description
1	Deck Gear	5.0	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn
1	Tank	F.W.	Inox	350.0	3.50	0.0	
2	Tank	F.W.	Inox	200.0	9.50	0.0	
3	Tank	F.O.	Inox	150.0	9.80	0.0	
4	Tank	Holding		130.0	8.00	0.0	
Id	Item	Weight	Distance	VCG	Description		
1	Battery	9.20		2 x 140Ah			
2	Battery	8.10		1 x 100Ah			
3	Battery	8.00		1 x 70Ah			



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Certificate Appendix
Sail Plan



SAILS INVENTORY														
MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment			
ORC	0.140	0.94	1.70	2.92	3.83	34.09					* Copied from legacy			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						7.43	14.25	149%	52.95					* Copied from
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	14.59	8.92	8.90	108.40					* Copied from legacy					
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		