

BOAT Name ANAX Sail Nr GRE-1550	GPH 644.0	HULL Length Overall 9.982m Maximum Beam 3.372m Displacement 4,617kg Draft 2.001m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.199% Fwd Accommodation No Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class First 34.7 Designer Farr Builder Beneteau Series 10/2005 Age 06/2006 Age Allowance 0.422% Offset File GRE1550.off - 24/10/2017 22:44:40 Measurement by MARIN/KUSTIC/KALAT - 02/10/2006		IMSL 9.097m VCGD -0.154m Sink 16.40kg/mm RL 8.109m VCGM -0.139m WS 22.26m² LSM0 8.964m Displacement/Length ratio 6.4099



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	624.1			694.9		
Time on Time	0.9613			0.9714		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	742.7	568.9	506.2	956.6	698.1	604.5
Time on Time	0.9089	1.1864	1.3335	0.7056	0.9669	1.1167

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1108.9	917.4	804.1	741.5	719.8	712.0	706.0
52°	729.8	611.4	547.3	521.2	509.7	505.5	503.2
60°	692.2	582.1	531.4	509.2	496.8	491.0	488.0
75°	663.8	562.1	520.4	499.0	483.1	470.4	458.5
90°	659.4	547.2	506.2	488.3	478.4	461.4	433.9
110°	651.1	540.4	499.6	473.6	450.0	434.6	414.5
120°	669.7	552.1	505.6	478.3	452.0	428.0	394.7
135°	737.6	599.8	527.7	496.1	471.1	445.7	398.2
150°	868.0	690.8	584.8	525.2	496.2	472.9	427.0
Run VMG	1002.3	797.6	674.3	595.1	539.8	505.9	460.2

Certificate

Number **000845**
ORC Ref **GRE01010100**
Issued On **17/07/2018**
VPP Ver. **2018 1.00**
Valid until **28/02/2019**

Crew Weight

Default 589kg
Maximum **690kg**
Minimum* **518kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	680.6	0.8816
Non Spin OSN	657.2	0.9129

Selected Courses							
Windward / Leeward	1055.6	857.5	739.2	668.3	629.8	609.0	583.1
Circular Random	890.6	717.5	624.5	570.6	537.6	516.1	488.8
Coastal / Long Distance	1050.3	804.6	667.0	587.5	547.7	516.9	466.8
Non Spinnaker	956.4	764.0	659.0	597.2	559.2	534.8	505.4

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	42.6°	41.2°	41.2°	39.3°	38.9°	38.8°	38.8°
Beat VMG	3.25	3.92	4.48	4.85	5.00	5.06	5.10
52°	4.93	5.89	6.58	6.91	7.06	7.12	7.15
60°	5.20	6.18	6.78	7.07	7.25	7.33	7.38
75°	5.42	6.40	6.92	7.21	7.45	7.65	7.85
90°	5.46	6.58	7.11	7.37	7.52	7.80	8.30
110°	5.53	6.66	7.21	7.60	8.00	8.28	8.68
120°	5.38	6.52	7.12	7.53	7.96	8.41	9.12
135°	4.88	6.00	6.82	7.26	7.64	8.08	9.04
150°	4.15	5.21	6.16	6.85	7.25	7.61	8.43
Run VMG	3.59	4.51	5.34	6.05	6.67	7.12	7.82
Gybe Angles	145.6°	149.9°	151.3°	158.4°	180.0°	180.0°	180.0°

Class Division Length

CDL = **8.604**

Storm Sails Areas

Heavy Weather Jib **23.07**
Storm Jib (JL=8.50) **8.54**
Storm Trysail **9.91**

Owner

BOAT	
Name ANAX	Sail Nr GRE-1550
File CRO1489	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 19/10/2017		SG 1.0272	
FFM 1.292	FF 1.288	SFFP 0.172	
FAM 1.046	FA 1.051	SAFP 9.530	
W1 81.9	PD1 599.1	WD 9.855	
W2 81.9	PD2 598.9	GSA 1.0	
W3 81.9	PD3 599.3	RSA 1.0	
W4 81.9	PD4 598.3	PLM 9000.0	
LCF from stem on CL / on sheer		5.364 / 5.599	
Maximum beam station from stem		6.642	
RM Measured		106.1kg-m	
RM Default		98.7kg-m	
Limit of positive stability / Stab.Index		129.9° / 129.5	
Freeboard at mast at 3.680		1.160	



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IMS Measurement Certificate

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	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 12.670	E 4.470	MDT1 0.109	MW 0.163
IG 13.000	J 3.680	MDL1 0.163	GO 0.183
ISP 13.720	SFJ	MDT2 0.100	BD 0.130
BAS 1.540	SPL 3.782	MDL2 0.132	MWT 110.00
FSP 0.066	TPS	TL 0.895	MCG 4.780

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0036		
ST1 0.120	ST3 0.180	ST5 0.180	
ST2 0.180	ST4 0.110	EDL 1.780	

COMMENTS	
ex "BE FIRST". Modified rudder.	

MOVABLE BALLAST	
N/A	



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Invalid for Racing

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.165	0.97	1.77	2.98	3.82	34.49	35.29	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	13.53	13.53	13.53	7.10	6.82	79.42		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
0.11	0.62	1.16	2.08	2.92	3.67	12.80	25.51	Y		16/06/2016	Carbon	No 3 Light
0.13	0.63	1.14	2.08	2.91	3.68	12.79	25.47	Y		16/07/2018	Carbon	
0.06	0.48	0.93	1.86	2.79	3.69	12.87	23.94			06/08/2011	Carbon	No 3
0.07	0.43	0.81	1.59	2.34	3.07	10.99	17.28			23/06/2012	Dacron	No 4

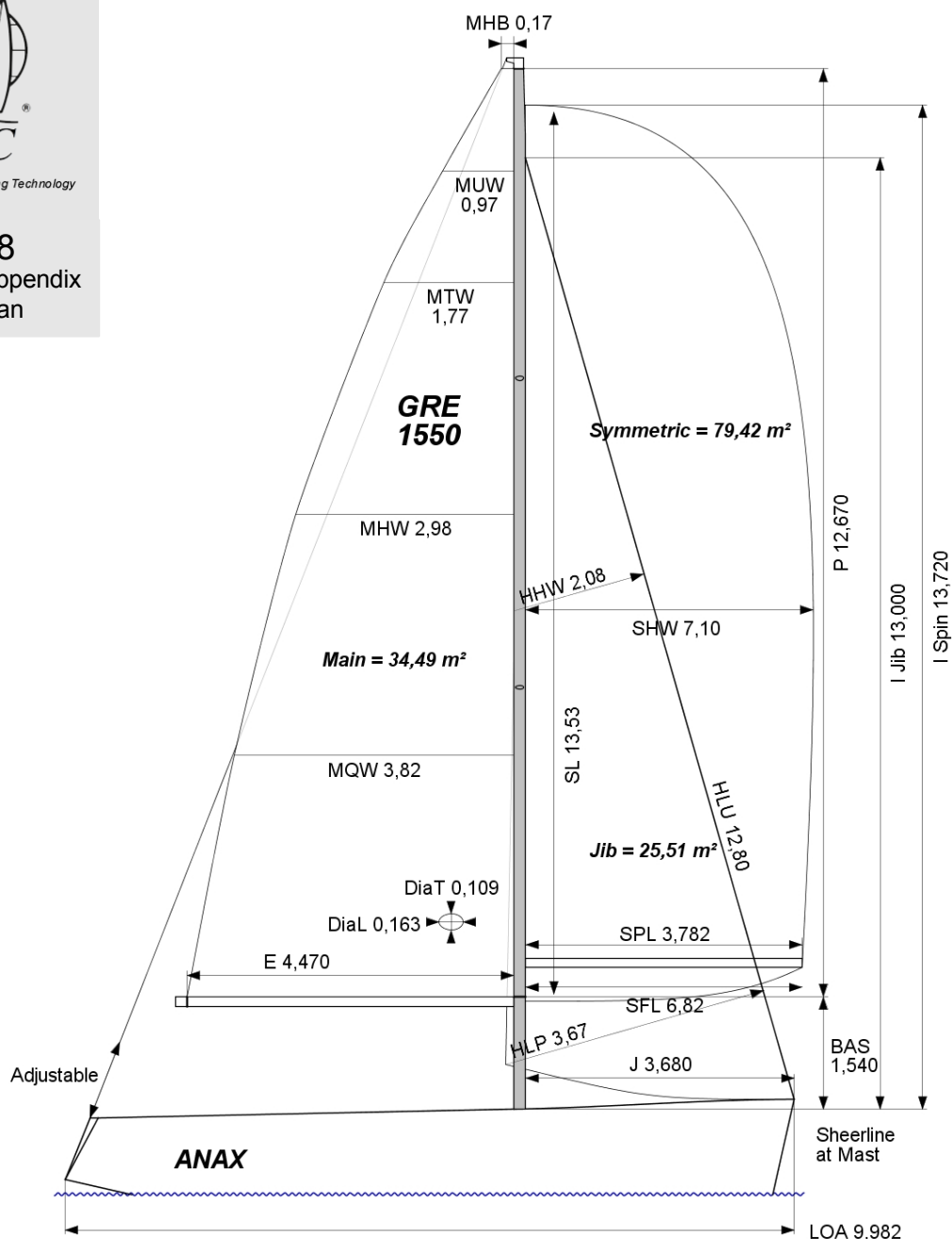
MEASUREMENT INVENTORY				
Measurer KALATZIS GRE-21				
Date 19/10/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	3YM20SD	
Id	Item	Weight Description		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
1	Tank	FUEL	PVC hard	70.0	7.60	0.0
2	Tank	WATER	PVC hard	100.0	4.20	0.0
Id	Item	Weight	Distance	VCG Description		
1	Ballast	52.0	4.40	2 x 26kg P & S		
2	Ballast	28.0	4.80	2 x 14kg P & S		
3	Ballast	88.0	5.40	4 plates C		
1	Battery		3.80	70 Ah		
2	Battery		4.00	90 Ah		
3	Battery		5.70	50 Ah		
1	Misc		3.00	GENERATOR (DOLPHIN 12V 25A)		
2	Misc			RETRACT. CARBON BOWSPRIT IN REST		



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Sail Plan



SAILS INVENTORY

MAINSAIL (3)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.165	0.97	1.77	2.98	3.82	34.49	KALATZIS	16/07/2018	NORTH	Carbon	
4	0.159	1.00	1.65	2.79	3.73	33.36	KALATZIS	27/04/2016	KAKITSIS	Carbon	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
8	0.11	0.62	1.16	2.08	2.92	3.67	12.80	100%	25.51	Y		KALATZIS	16/06/2016	NORTH	Carbon	No 3 Light
7	0.13	0.63	1.14	2.08	2.91	3.68	12.79	100%	25.47	Y		KALATZIS	16/07/2018	KAKITSIS	Carbon	
2	0.06	0.48	0.93	1.86	2.79	3.69	12.87	100%	23.94			CHOULA	06/08/2011	KAKITSIS	Carbon	No 3
5	0.07	0.43	0.81	1.59	2.34	3.07	10.99	83%	17.28			KALATZIS	23/06/2012	KAKITSIS	Dacron	No 4

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
6	13.53	13.53	13.53	7.10	6.82	79.42	KALATZIS	25/06/2016	NORTH	Nylon	S2
3	13.43	13.43	13.43	6.64	6.35	73.66	KALATZIS	24/06/2013	QUANTUM	Nylon	0.60
5	13.31	13.31	13.31	6.55	6.71	73.01	KALATZIS	24/04/2016	KAKITSIS	Nylon	
2	13.41	13.41	13.41	6.35	6.39	71.05	KALATZIS	06/05/2012	NORTH	Nylon	0.50

ASYMMETRIC SPINNAKERS (0)

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