

BOAT		GPH	HULL				
Name BLUE LINE Sail Nr GRE-1153		627.9	Length Overall 10.840m Maximum Beam 3.276m Displacement 5,877kg Draft 2.008m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.226% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension				
GENERAL		Class BAVARIA 35 MATCH Designer J & J Builder BAVARIA Series 05/2005 Age 05/2005 Age Allowance 0.455% Offset File BA35MMK.OFF - 08/07/2008 17:08:52 Measurement by - 27/07/2005					
		IMSL	10.117m	VCGD	-0.136m	Sink	19.12kg/mm
		RL	8.360m	VCGM	0.074m	WS	25.24m ²
		LSM0	10.211m	Displacement/Length ratio		5.5201	



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	610.5			681.9		
Time on Time	0.9828			0.9899		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	718.3	556.1	499.0	927.7	685.1	596.6
Time on Time	0.9397	1.2139	1.3526	0.7276	0.9852	1.1315

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1058.1	878.5	778.5	730.3	714.3	709.0	696.4
52°	692.1	586.4	528.9	506.2	498.2	494.8	489.6
60°	654.4	558.2	512.3	492.9	484.0	480.3	477.1
75°	625.8	537.6	500.4	481.6	469.1	460.5	453.8
90°	633.9	534.5	493.2	479.1	463.8	449.7	428.4
110°	633.2	526.6	485.7	463.2	444.8	433.5	415.6
120°	653.0	538.4	491.0	466.4	444.3	423.0	397.5
135°	723.1	589.4	515.3	482.8	460.6	437.9	393.6
150°	855.7	680.8	577.1	514.2	483.8	462.8	420.3
Run VMG	988.0	786.1	665.7	586.1	530.9	494.2	451.9

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ORC Ref **GRE01015707**
Issued On **23/05/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight

Default 709kg
Maximum **630kg**
Minimum* **473kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	659.8	0.9094
Non Spin OSN	640.7	0.9365

Selected Courses							
Windward / Leeward	1023.1	832.3	722.1	658.2	622.6	601.6	574.1
Circular Random	862.7	697.2	609.1	558.5	527.9	508.0	482.5
Coastal / Long Distance	1019.6	781.4	650.6	575.9	537.9	508.8	461.2
Non Spinnaker	922.5	738.8	639.0	580.7	545.1	522.2	494.0

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°	41.0°	40.7°	40.0°	39.6°	39.5°	39.2°
Beat VMG	3.40	4.10	4.62	4.93	5.04	5.08	5.17
52°	5.20	6.14	6.81	7.11	7.23	7.28	7.35
60°	5.50	6.45	7.03	7.30	7.44	7.50	7.54
75°	5.75	6.70	7.19	7.48	7.67	7.82	7.93
90°	5.68	6.74	7.30	7.51	7.76	8.00	8.40
110°	5.69	6.84	7.41	7.77	8.09	8.30	8.66
120°	5.51	6.69	7.33	7.72	8.10	8.51	9.06
135°	4.98	6.11	6.99	7.46	7.82	8.22	9.15
150°	4.21	5.29	6.24	7.00	7.44	7.78	8.57
Run VMG	3.64	4.58	5.41	6.14	6.78	7.29	7.97
Gybe Angles	144.7°	149.6°	151.3°	156.7°	174.4°	180.0°	180.0°

Class Division Length

CDL = **9.239**

Storm Sails Areas

Heavy Weather Jib **29.50**
Storm Jib (JL=9.61) **10.93**
Storm Trysail **12.04**

Owner

BOAT	
Name BLUE LINE	Sail Nr GRE-1153
File GR1153	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	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 13.750	E 5.000 MDT1 0.111 MW 0.149
IG 14.611	J 3.850 MDL1 0.213 GO 0.193
ISP 14.700	SFJ 0.155 MDT2 0.107 BD 0.075
BAS 1.610	SPL 3.828 MDL2 0.149 MWT 189.00
FSP 0.064	TPS 4.330 TL 2.077 MCG 5.696

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 21/05/2017		SG	
FFM 1.210	FF 1.210	SFFP 0.120	
FAM 1.034	FA 1.034	SAFP 10.517	
W1 79.3	PD1 258.0	WD 9.780	
W2 79.3	PD2 258.0	GSA 50.3	
W3 79.3	PD3 258.0	RSA 5808.8	
W4 79.3	PD4 258.0	PLM 2115.0	
LCF from stem on CL / on sheer		5.974 / 6.175	
Maximum beam station from stem		6.670	
RM Measured		110.3kg-m	
RM Default		121.2kg-m	
Limit of positive stability / Stab.Index		113.7° / 118.3	
Freeboard at mast at 4.005		1.079	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.392		
Type Folding 3 blades	PBW 0.100		
Twin Screw No	PIPA 0.0036		
ST1 0.065	ST3 0.179	ST5 0.330	
ST2 0.111	ST4 0.097	EDL 2.190	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.170	1.00	1.82	3.09	4.13	39.97	40.73	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.45	14.45	14.45	7.00	6.74	83.67		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
0.08	0.56	1.07	2.01	2.92	3.90	14.09	28.06	Y		17/05/2019	Kevlar	
0.08	0.54	1.04	2.01	2.97	3.90	14.01	27.95			08/06/2016	Unknow	
0.06	0.41	0.97	1.95	2.91	3.93	14.30	27.82			20/04/2011	Unknow	
0.08	0.54	1.02	1.99	2.96	3.90	14.00	27.79	Y		17/05/2019	Kevlar	
0.07	0.54	0.99	1.88	2.72	3.48	14.14	25.91	Y		12/05/2014	Unknow	Jib Top
0.05	0.54	1.02	1.98	2.94	3.84	12.87	25.32			10/05/2009	Polyest	

MEASUREMENT INVENTORY				
Measurer GRE-139				
Date 21/05/2017				
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	VOLVO	MD2030	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

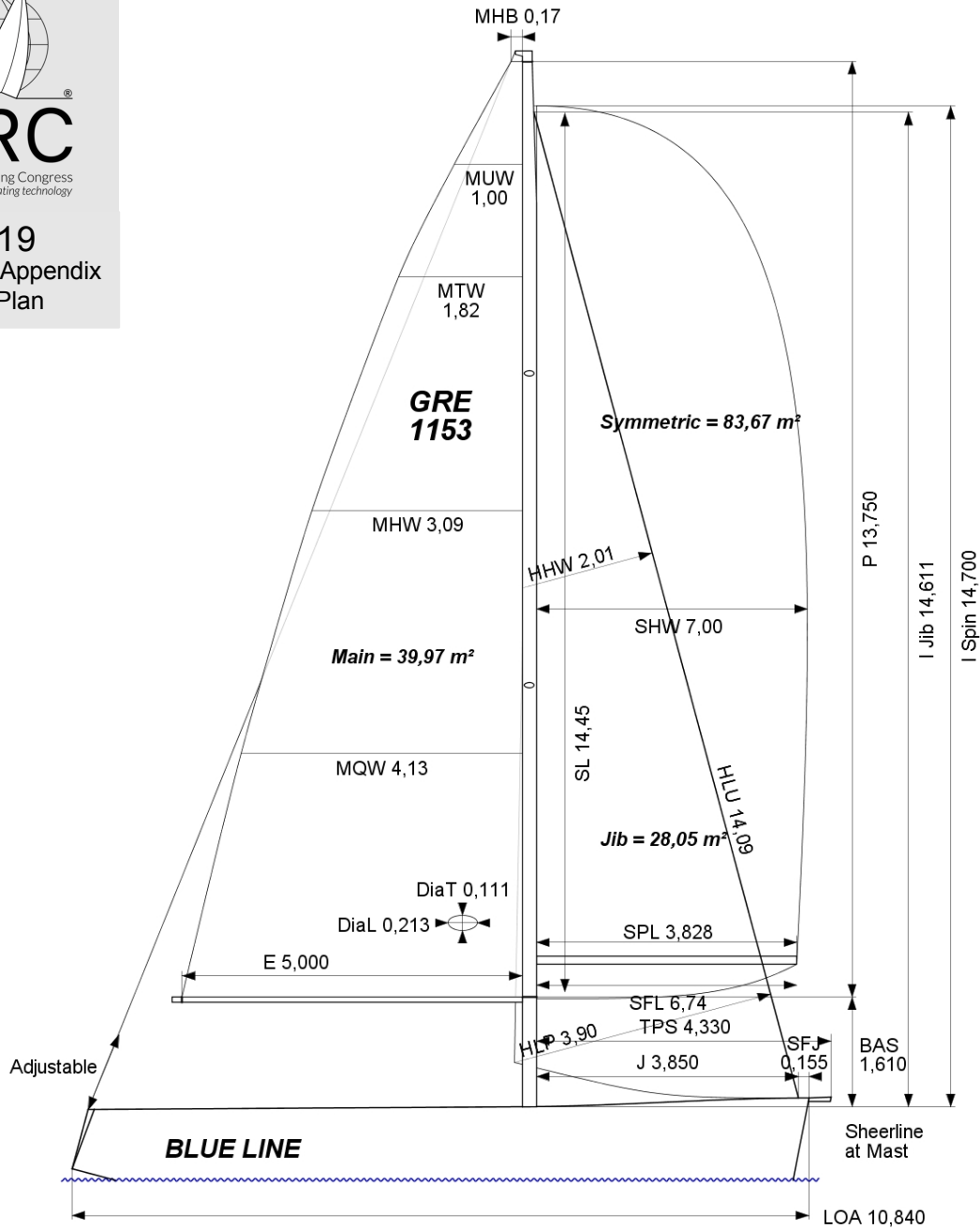
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
1	Tank	WATER	PVC hard	150.0	7.70			0-0 PORT	
2	Tank	WATER	PVC hard	80.0	7.70			0-0 STARBOARD	
3	Tank	FUEL	PVC hard	90.0	8.00			0-0 STARBOARD	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
1	Battery	34.8	4.50	140 Ah					
2	Battery	15.6	5.00	55 Ah					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.17	1.00	1.82	3.09	4.13	39.97		17/05/2019	QUANTUM	Kevlar	

HEADSAILS (6)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
7	0.08	0.56	1.07	2.01	2.92	3.90	14.09	101%	28.06	Y			17/05/2019	QUANTUM	Kevlar	
1	0.08	0.54	1.04	2.01	2.97	3.90	14.01	101%	27.95				08/06/2016		Unknow	
8	0.06	0.41	0.97	1.95	2.91	3.93	14.30	102%	27.82				20/04/2011		Unknow	
6	0.08	0.54	1.02	1.99	2.96	3.90	14.00	101%	27.79	Y			17/05/2019	QUANTUM	Kevlar	
3	0.07	0.54	0.99	1.88	2.72	3.48	14.14	90%	25.91	Y			12/05/2014		Unknow	Jib Top
3	0.05	0.54	1.02	1.98	2.94	3.84	12.87	100%	25.32				10/05/2009	UK	Polyest	

SYMMETRIC SPINNAKERS (6)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	14.45	14.45	14.45	7.00	6.74	83.67		08/06/2016		Unknown	
3	14.44	14.44	14.44	6.96	6.71	83.16		08/06/2016		Unknown	
1a	14.44	14.44	14.44	6.90	6.72	82.60		21/05/2009		Unknown	
3a	15.10	15.10	15.10	6.59	6.45	82.58		21/05/2009		Unknown	
2a	14.01	14.01	14.01	6.95	6.80	80.80		21/05/2009		Unknown	

ASYMMETRIC SPINNAKERS (0)

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