

BOAT Name Lurifax Sail Nr GBR 4907	GPH 583.4	HULL Length Overall 12.125m Maximum Beam 3.532m Displacement 7,190kg Draft 2.395m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Sinergia 40 IMS Designer CARKEEK / BOTIN Builder Sinergia Series 01/2001 Age 01/2003 Age Allowance 0.487% Offset File sinerg40.off - 16/06/2003 10:44:00 Measurement by Boymo / -		IMSL 10.829m VCGD 0.392m Sink 23.30kg/mm RL 10.094m VCGM -0.110m WS 29.99m² LSMO 10.576m Displacement/Length ratio 6.0781



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	567.6			633.2		
Time On Time	1.0571			1.0660		
Performance Line	0.718	38.1		0.893	197.9	
Triple Number	Low 1.0049	Medium 1.3073	High 1.4758	Low 0.7728	Medium 1.0598	High 1.2346

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	984.7	815.7	711.9	664.6	644.2	633.6	620.2
52°	641.9	537.6	484.8	466.4	459.5	455.8	448.9
60°	603.2	510.7	471.0	454.2	446.8	442.5	436.1
75°	571.3	492.3	461.4	442.2	427.9	420.0	413.0
90°	573.4	493.8	458.8	443.3	424.8	407.5	388.3
110°	595.6	494.8	457.0	431.9	410.5	398.8	379.1
120°	615.7	507.6	463.8	438.7	413.7	389.5	362.4
135°	686.0	556.7	488.5	457.5	434.6	410.9	364.4
150°	817.1	649.5	548.8	488.7	458.9	437.1	393.4
Run VMG	943.5	749.9	633.4	557.6	505.8	469.7	425.8

Certificate

Number **21629**
ORC Ref **NOR00001330**
Issued On **26/05/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **900kg**
Default* **746kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **609.5 0.9844**
Non Spin OSN **592.8 1.0122**
N/S Perf. Line **13.2 0.646**

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	964.1	782.8	672.6	611.1	575.0	551.7	523.0
Circular Random	805.3	649.7	566.0	517.1	486.8	466.5	440.2
Ocean for PCS	990.5	763.8	635.8	557.5	506.6	471.1	421.9
Non Spinnaker	852.1	682.8	590.7	536.2	502.1	479.4	449.6

Sails Limitations

Headsails	Spinnakers
7	4

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.3°	42.1°	41.4°	39.4°	38.3°	37.7°	37.2°
Beat VMG	3.66	4.41	5.06	5.42	5.59	5.68	5.80
52°	5.61	6.70	7.43	7.72	7.83	7.90	8.02
60°	5.97	7.05	7.64	7.93	8.06	8.14	8.25
75°	6.30	7.31	7.80	8.14	8.41	8.57	8.72
90°	6.28	7.29	7.85	8.12	8.47	8.84	9.27
110°	6.04	7.28	7.88	8.34	8.77	9.03	9.50
120°	5.85	7.09	7.76	8.21	8.70	9.24	9.93
135°	5.25	6.47	7.37	7.87	8.28	8.76	9.88
150°	4.41	5.54	6.56	7.37	7.84	8.24	9.15
Run VMG	3.82	4.80	5.68	6.46	7.12	7.67	8.45
Gybe Angles	143.9°	148.4°	151.0°	156.4°	172.0°	180.0°	180.0°

Class Division Length
CDL = **10.463**

Storm Sails Areas

Heavy Weather Jib **35.63**
Storm Jib (JL=10.56) **13.20**
Storm Triesail **16.87**

Owner

BOAT	
Name Lurifax	Sail Nr GBR 4907
File GBR4907.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 25/04/2014	SG 1.0050	
FFM 1.425	FF 1.440	SFFP 0.145
FAM 1.173	FA 1.179	SAFP 11.429
W1 104.0	PD1 430.4	WD 11.390
W2 104.0	PD2 430.0	GSA 1.0
W3 104.0	PD3 431.1	RSA 1.0
W4 104.0	PD4 428.1	PLM 9000.0
LCF from stem on CL / on sheer		6.709 / 6.920
Maximum beam station from stem		7.498
RM Measured		217.0kg·m
RM Default		199.0kg·m
Limit of positive stability / Stab.Index		126.8° / 131.8
Freeboard at mast at 4.590		1.279

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 16.490	E 5.845	MDT1 0.112	MW 0.223	
IG 16.175	J 4.590	MDL1 0.223	GO 0.243	
ISP 16.225	SFJ	MDT2 0.099	BD	
BAS 1.825	SPL 4.590	MDL2 0.157	MWT 200.00	
FSP 0.070	TPS 0.000	TL 2.125	MCG 5.630	



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IMS Measurement Certificate

Certificate	
Number 21629	ORC Ref NOR00001330
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Valid until 31/12/2016	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.400	
Type Folding 2 blades	PBW	
Twin Screw	PIPA 0.0035	
ST1 0.048	ST3 0.170	ST5 0.245
ST2 0.170	ST4 0.170	EDL 0.873

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.165	1.04	2.17	3.72	4.78	56.11	57.13	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	107.42		SL · (SFL + 4·SHW) / 6	
	15.89	15.89	15.89	8.12	8.08				
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
0.05	0.67	1.29	2.48	3.61	4.78	15.91	38.87					
0.03	0.75	1.10	2.40	3.55	4.85	15.93	38.21					
0.08	0.60	1.15	2.32	3.55	4.76	16.15	38.12					
0.07	0.47	0.91	1.86	2.93	4.12	13.50	26.43					

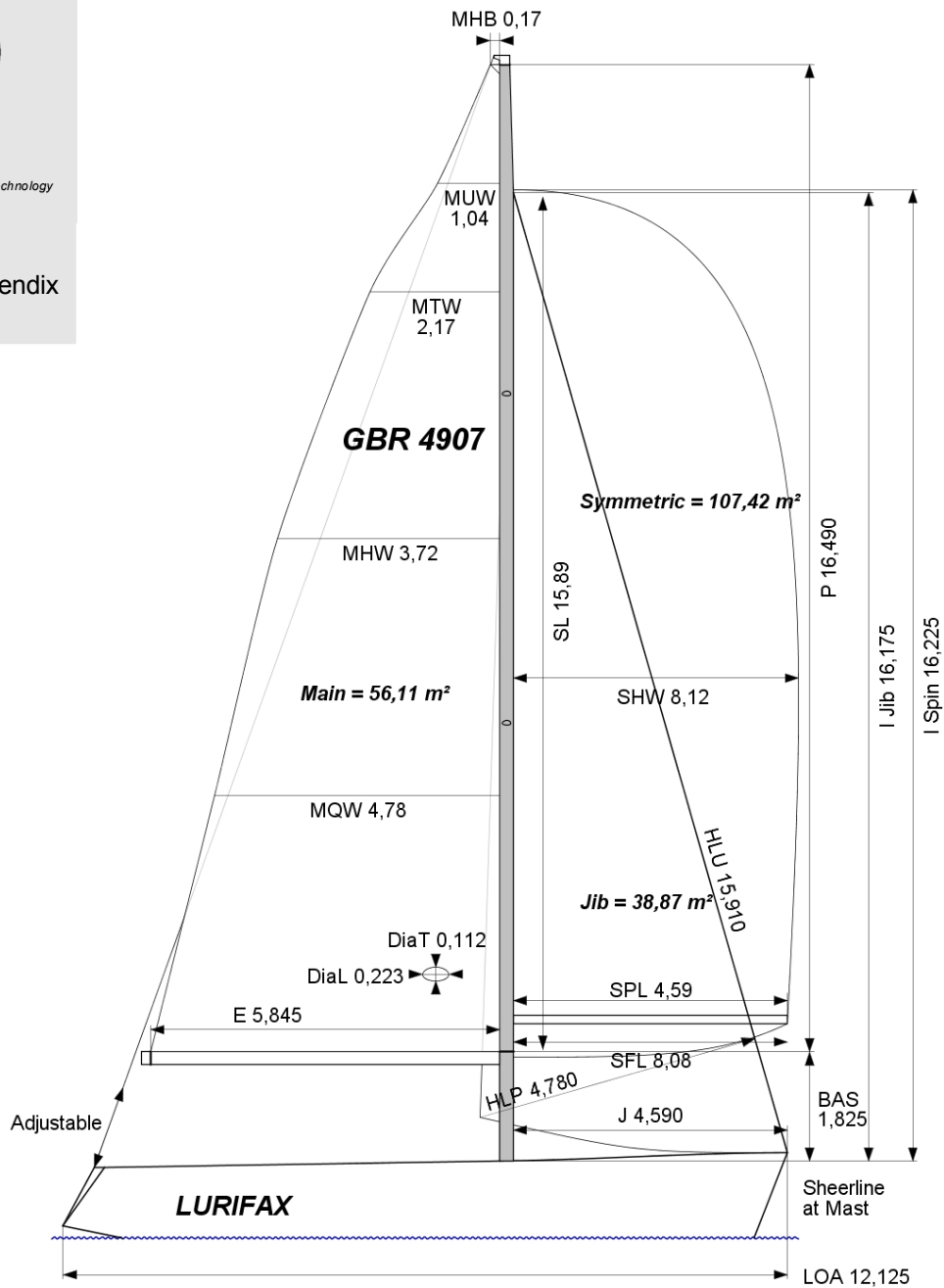
MEASUREMENT INVENTORY				
Measurer Boymo PB				
Date 25/04/2014				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
QR	Anchor	25.0	0.00	*Legacy Anchor*
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo penta	MD 2040	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>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	Alu	80.0	5.77	0.20	0-0	
2	Tank	Water	Alu	80.0	5.77	0.20	0-0	
3	Tank	Diesel	Alu	115.0	8.57	0.20	55.0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>			
2	Battery	25.0	12.00	0.15	2x75Ah			
1	Battery	20.0	12.00	0.15	1x110Ah			



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
394-	0.165	1.04	2.17	3.72	4.78	56.11					

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
394-	0.05	0.67	1.29	2.48	3.61	4.78	15.91	104%	38.87							
394-	0.03	0.75	1.10	2.40	3.55	4.85	15.93	106%	38.21							
465-	0.08	0.60	1.15	2.32	3.55	4.76	16.15	104%	38.12							
394-	0.07	0.47	0.91	1.86	2.93	4.12	13.50	90%	26.43							

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
394-	15.89	15.89	15.89	8.12	8.08	107.42					
394-	15.91	15.91	15.91	8.07	8.14	107.18					

ASYMMETRIC SPINNAKERS

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