BOAT

Name **BAXIMUS**
Sail Nr **GRE-74**

GPH

604.5

GENERAL

Class	**X-35 OD**
Designer	**JEPPESEN**
Builder	**X YACHTS**
Series	**09/2005**
Age	**09/2006**
Age Allow ance	**0.422%**
Offset File	**X35.OFF - 17/12/2005 11:51:04**
Measurement by	**KALL/SPIRIDELI - 09/07/2007**

HULL

Length Overall	**10.600m**
Maximum Beam	**3.250m**
Displacement	**4,609kg**
Draft	**2.180m**
IMS Reg. Division	**Performance**
Dynamic Allow ance	**0.000%**
Fw d Accommodation	**Yes**
Hull Construction	**Cored**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**9.498m**	VCGD	**0.007m**	Sink	**17.75kg/mm**
RL	**9.166m**	VCGM	**-0.010m**	WS	**23.17m²**
LSM0	**9.329m**	Displacement/Length ratio			**5.6768**

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SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**588.4**			**655.0**		
Time on Time	**1.0197**			**1.0306**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**682.8**	**538.1**	**484.5**	**876.4**	**656.1**	**578.5**
Time on Time	**0.9886**	**1.2544**	**1.3933**	**0.7702**	**1.0288**	**1.1669**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**980.1**	**813.5**	**725.5**	**697.5**	**687.2**	**680.5**	**672.6**
52°	**650.4**	**549.6**	**510.9**	**498.7**	**493.9**	**491.7**	**484.5**
60°	**618.9**	**531.6**	**499.8**	**486.3**	**480.8**	**477.9**	**469.7**
75°	**596.1**	**520.4**	**491.3**	**473.0**	**460.5**	**454.3**	**449.1**
90°	**603.0**	**519.4**	**488.2**	**470.0**	**450.6**	**434.8**	**418.8**
110°	**611.3**	**515.0**	**479.0**	**452.5**	**434.4**	**421.3**	**401.2**
120°	**629.0**	**524.9**	**484.9**	**455.5**	**427.8**	**404.9**	**378.6**
135°	**695.7**	**566.6**	**506.3**	**476.2**	**448.4**	**421.0**	**365.2**
150°	**824.3**	**658.1**	**558.3**	**505.4**	**477.3**	**451.5**	**401.7**
Run VMG	**951.8**	**759.9**	**643.6**	**571.3**	**520.3**	**488.2**	**438.9**
Selected Courses							
Windward / Leeward	**966.0**	**786.7**	**684.6**	**634.4**	**603.7**	**584.4**	**555.8**
Circular Random	**823.3**	**668.5**	**586.9**	**540.5**	**512.0**	**493.0**	**466.8**
Coastal / Long Distance	**964.6**	**741.1**	**621.8**	**559.0**	**523.8**	**494.4**	**447.1**
Non Spinnaker	**877.2**	**706.5**	**615.2**	**562.4**	**530.1**	**508.7**	**480.4**

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	**42.0°**	**40.9°**	**39.1°**	**37.8°**	**37.7°**	**37.4°**	**37.7°**
Beat VMG	**3.67**	**4.43**	**4.96**	**5.16**	**5.24**	**5.29**	**5.35**
52°	**5.53**	**6.55**	**7.05**	**7.22**	**7.29**	**7.32**	**7.43**
60°	**5.82**	**6.77**	**7.20**	**7.40**	**7.49**	**7.53**	**7.66**
75°	**6.04**	**6.92**	**7.33**	**7.61**	**7.82**	**7.92**	**8.02**
90°	**5.97**	**6.93**	**7.37**	**7.66**	**7.99**	**8.28**	**8.60**
110°	**5.89**	**6.99**	**7.52**	**7.96**	**8.29**	**8.55**	**8.97**
120°	**5.72**	**6.86**	**7.42**	**7.90**	**8.41**	**8.89**	**9.51**
135°	**5.17**	**6.35**	**7.11**	**7.56**	**8.03**	**8.55**	**9.86**
150°	**4.37**	**5.47**	**6.45**	**7.12**	**7.54**	**7.97**	**8.96**
Run VMG	**3.78**	**4.74**	**5.59**	**6.30**	**6.92**	**7.37**	**8.20**
Gybe Angles	**144.6°**	**148.6°**	**151.4°**	**158.9°**	**180.0°**	**180.0°**	**180.0°**

Rating Office

Offshore Racing Congress

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Certificate

Number **000121**
ORC Ref **GRE01010302**
Issued On **30/07/2018**
VPP Ver. **2018 1.00**
Valid until **28/02/2019**

Crew Weight

Default	623kg
Maximum	**695kg**
Minimum*	**521kg**

**when applied by the NoR and SI*

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	**634.5**	**0.9456**
Non Spin OSN	**616.6**	**0.9731**

Sails Limitations

Headsails	Spinnakers
5	**3**

Class Division Length

CDL = **9.333**

Storm Sails Areas

Heavy Weather Jib	**28.66**
Storm Jib (JL=9.47)	**10.61**
Storm Trysail	**12.21**

Owner

BOAT

Name	**BAXIMUS**	Sail Nr	**GRE-74**
File	**GR74X**	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	**14.240**	E	**4.900**	MDT1	**0.125**	MW	**0.184**
IG	**14.500**	J	**4.185**	MDL1	**0.185**	GO	**0.204**
ISP	**14.530**	SFJ		MDT2	**0.122**	BD	**0.220**
BAS	**1.745**	SPL	**4.180**	MDL2	**0.140**	MWT	**156.00**
FSP	**0.068**	TPS		TL	**1.230**	MCG	**4.600**

MIZZEN RIG AND SAILS

N/A

COMMENTS

INCLINING TEST AND FREEBOARDS

Inclining Test	**Current Inclining**				
Flotation date	**20/05/2016**			SG	**1.0255**
FFM	**1.313**	FF	**1.313**	SFFP	**0.075**
FAM	**0.977**	FA	**0.978**	SAFP	**10.275**
W1	**76.0**	PD1	**256.0**	WD	**10.940**
W2	**76.0**	PD2	**256.0**	GSA	**50.2**
W3	**76.0**	PD3	**256.0**	RSA	**5941.7**
W4	**76.0**	PD4	**256.0**	PLM	**2069.0**

LCF from stem on CL / on sheer	**5.974 / 6.170**
Maximum beam station from stem	**7.300**
RM Measured	**116.6kg·m**
RM Default	**122.8kg·m**
Limit of positive stability / Stab.Index	**119.0° / 120.1**
Freeboard at mast at 4.185	**1.100**

PROPELLER

Installation	**Strut**			PRD	**0.420**
Type	**Folding 2 blades**			PBW	**0.128**
Twin Screw	**No**			PIPA	**0.0033**
ST1	**0.042**	ST3	**0.182**	ST5	**0.255**
ST2	**0.178**	ST4	**0.112**	EDL	**2.390**

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

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SAILS (Maximum Areas)

Mainsail	**MHB**	**MUW**	**MTW**	**MHW**	**MQW**	**Area**	**Area (r)**	**Formula**
	0.200	1.06	1.86	3.17	4.12	41.71	42.54	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	14.37	14.37	14.37	7.72	7.44	91.78		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	0.64	1.21	2.29	3.35	4.46	14.48	32.96	Y		19/08/2017	Carbon	Light/Medium
0.10	0.65	1.22	2.29	3.33	4.45	14.37	32.65	Y		17/05/2016	Carbon	Medium
0.10	0.61	1.18	2.24	3.30	4.37	14.30	31.89	Y		31/07/2014	Carbon	Light Medium
0.09	0.51	0.99	1.94	2.91	3.88	14.31	27.92	Y		29/07/2014	Carbon	Heavy

MEASUREMENT INVENTORY

Measurer **SPIRIDELI GRE-16**
Date **20/05/2016**
Comment

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

Id	*Item*	*Maker*	*Model*
1	Engine	YANMAR	3YM20

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
2	Tank	water	plastic	120.0	5.50		~~0.0~~	empty
1	Tank	diesel	inox	60.0	6.20	-0.20	~~10.0~~	almost empty

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
4	Ballast	28.0	6.65	-0.40	
3	Ballast	65.0	6.05	-0.40	
2	Ballast	123.0	5.45	-0.40	
1	Ballast	51.0	4.85	-0.40	
3	Battery	13.0	5.55		44Ah
2	Battery	20.0	5.20		75Ah
1	Battery	30.0	4.90		120Ah

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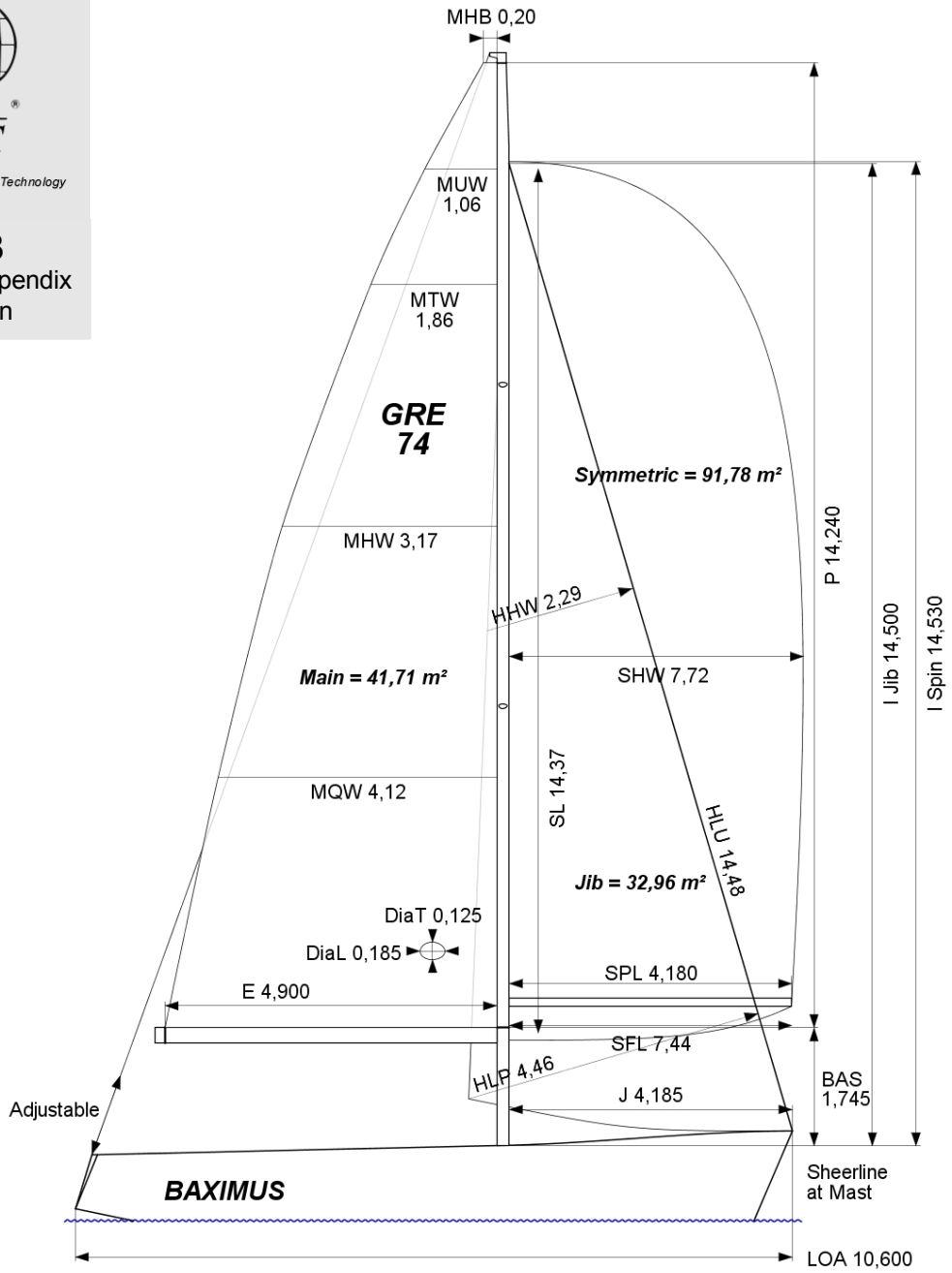
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (3)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0.200	1.06	1.86	3.17	4.12	41.71	SPIRIDELI	24/05/2016	QUANTUM	Carbon	
M2	0.214	1.06	1.84	3.14	4.09	41.45	SPIRIDELI	25/05/2016	NorthSails	Kevlar	Tafeta

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.11	0.64	1.21	2.29	3.35	4.46	14.48	107%	32.96	Y		SPIRIDEL	19/08/2017	Quantum	Carbon	Light/Medium
H2	0.10	0.65	1.22	2.29	3.33	4.45	14.37	106%	32.65	Y		SPIRIDEL	17/05/2016	Quantum	Carbon	Medium
H3	0.10	0.61	1.18	2.24	3.30	4.37	14.30	104%	31.89	Y		SPIRIDEL	31/07/2014	NorthSails	Carbon	Light Medium
J3	0.09	0.51	0.99	1.94	2.91	3.88	14.31	93%	27.92	Y		SPIRIDEL	29/07/2014	Sailloft	Carbon	Heavy

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S-1.5	14.38	14.35	14.37	7.72	7.44	91.74	SPIRIDELI	24/05/2016	NorthSails	Nylon	0.5
S-2	14.20	14.20	14.20	7.71	7.37	90.43	SPIRIDELI	17/05/2016	NorthSails	Nylon	0.75
S-1	14.24	14.24	14.24	7.66	7.37	90.21	SPIRIDELI	17/05/2016	NorthSails	Nylon	0.5
3	13.72	13.72	13.72	7.22	6.91	81.84	SPIRIDELI	09/07/2007	Sailloft	Nylon	0.9

ASYMMETRIC SPINNAKERS (0)

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