

BOAT		GPH	HULL					
Name KRAKEN Sail Nr GRE-302		614.1	Length Overall 9.529m					
			Maximum Beam 3.288m					
			Displacement 2,915kg					
			Draft 1.980m					
			IMS Reg. Division Performance					
			Dynamic Allowance 0.000%					
			Fwd Accommodation No					
			Hull Construction Cored					
			Carbon Rudder No					
			Crew Arm Extension					
			IMSL	8.672m	VCGD	-0.206m	Sink	15.02kg/mm
			RL	8.401m	VCGM	-0.049m	WS	18.97m ²
			LSM0	8.444m	Displacement/Length ratio		4.8417	



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	598.7			671.1		
Time on Time	1.0021			1.0058		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	688.4	549.2	491.7	880.6	671.4	599.4
Time on Time	0.9805	1.2290	1.3729	0.7665	1.0054	1.1261

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1000.9	834.6	751.8	728.5	720.6	718.3	719.9
52°	661.2	564.7	529.2	517.2	512.0	509.5	505.6
60°	628.7	547.5	517.0	501.8	494.8	490.7	486.3
75°	605.6	536.7	506.5	482.7	466.1	457.7	450.6
90°	612.1	530.3	504.9	478.6	452.4	432.5	413.2
110°	608.2	523.5	484.6	454.7	436.4	419.0	389.9
120°	623.4	531.0	490.1	451.6	419.5	399.0	364.6
135°	685.8	563.4	512.9	476.4	440.2	403.6	328.8
150°	809.9	651.0	558.0	511.7	478.3	445.2	377.0
Run VMG	935.2	751.8	641.5	574.5	526.7	494.2	433.1

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Number **F00620**
ORC Ref **GRE01010291**
Issued On **28/07/2018**
VPP Ver. **2018 1.00**
Valid until **28/02/2019**

Crew Weight

Default 541kg
Maximum **590kg**
Minimum* **443kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	649.3	0.9241
Non Spin OSN	632.4	0.9488

Selected Courses							
Windward / Leeward	968.0	793.2	696.7	651.5	623.6	606.2	576.5
Circular Random	831.5	677.9	597.0	550.4	521.1	500.7	470.9
Coastal / Long Distance	964.8	747.5	633.9	572.4	534.3	502.7	448.3
Non Spinnaker	894.1	722.1	630.1	576.6	543.2	520.5	489.5

Sails Limitations

Headsails	5	Spinnakers	3
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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	42.3°	41.2°	39.3°	38.7°	38.6°	38.8°	39.7°
Beat VMG	3.60	4.31	4.79	4.94	5.00	5.01	5.00
52°	5.44	6.37	6.80	6.96	7.03	7.07	7.12
60°	5.73	6.58	6.96	7.17	7.28	7.34	7.40
75°	5.95	6.71	7.11	7.46	7.72	7.87	7.99
90°	5.88	6.79	7.13	7.52	7.96	8.32	8.71
110°	5.92	6.88	7.43	7.92	8.25	8.59	9.23
120°	5.77	6.78	7.35	7.97	8.58	9.02	9.88
135°	5.25	6.39	7.02	7.56	8.18	8.92	10.95
150°	4.44	5.53	6.45	7.04	7.53	8.09	9.55
Run VMG	3.85	4.79	5.61	6.27	6.83	7.28	8.31
Gybe Angles	142.0°	148.5°	152.6°	161.3°	180.0°	180.0°	180.0°

Class Division Length

CDL = **8.537**

Storm Sails Areas

Heavy Weather Jib **17.73**
Storm Jib (JL=7.45) **6.57**
Storm Trysail **10.43**

Owner

BOAT	
Name KRAKEN	Sail Nr GRE-302
File GR302	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 30/05/2006	SG 1.0300		
FFM 1.088	FF 1.085	SFFP 0.484	
FAM 0.803	FA 0.810	SAFP 8.765	
W1 64.5	PD1 201.0	WD 9.730	
W2 64.5	PD2 201.0	GSA 113.1	
W3 64.5	PD3 201.0	RSA 113.1	
W4 64.5	PD4 201.0	PLM 3110.0	
LCF from stem on CL / on sheer		5.437 / 5.668	
Maximum beam station from stem		6.887	
RM Measured		85.0kg-m	
RM Default		78.0kg-m	
Limit of positive stability / Stab.Index		112.9° / 107.2	
Freeboard at mast at 3.775		0.907	

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay None Fitted	Runners 2		
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 12.700	E 4.692	MDT1 0.116	MW 0.165
IG 11.410	J 3.435	MDL1 0.165	GO 0.180
ISP 13.950	SFJ 0.340	MDT2 0.095	BD 0.150
BAS 1.460	SPL 3.720	MDL2 0.132	MWT 136.00
FSP 0.066	TPS	TL 1.404	MCG 5.172


MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.356		
Type Folding 2 blades	PBW 0.117		
Twin Screw No	PIPA 0.0032		
ST1 0.040	ST3 0.180	ST5 0.275	
ST2 0.180	ST4 0.110	EDL 1.535	

COMMENTS	
ex "RED HOT"	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	




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IMS Measurement Certificate

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.178	1.13	1.94	3.15	4.04	36.83	37.87	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	89.70		SL · (SFL + 4·SHW) / 6	
	14.17	14.17	14.17	7.65	7.38				
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	0.66	1.26	2.46	3.69	4.92	11.23	27.79			28/06/2014	Polyest	LM technora?
0.07	0.59	1.14	2.36	3.63	4.86	11.20	26.88	N		21/04/2013	Polyest	LM mylar
0.07	0.56	1.08	2.23	3.45	4.69	10.98	25.14			21/04/2013	Polyest	MH mylar
0.11	0.60	1.14	2.23	3.32	4.40	11.15	24.86			21/04/2013	Polyest	ultra light mylar
0.08	0.50	0.98	1.99	3.12	4.36	11.02	22.97			21/04/2013	Pentex	H black

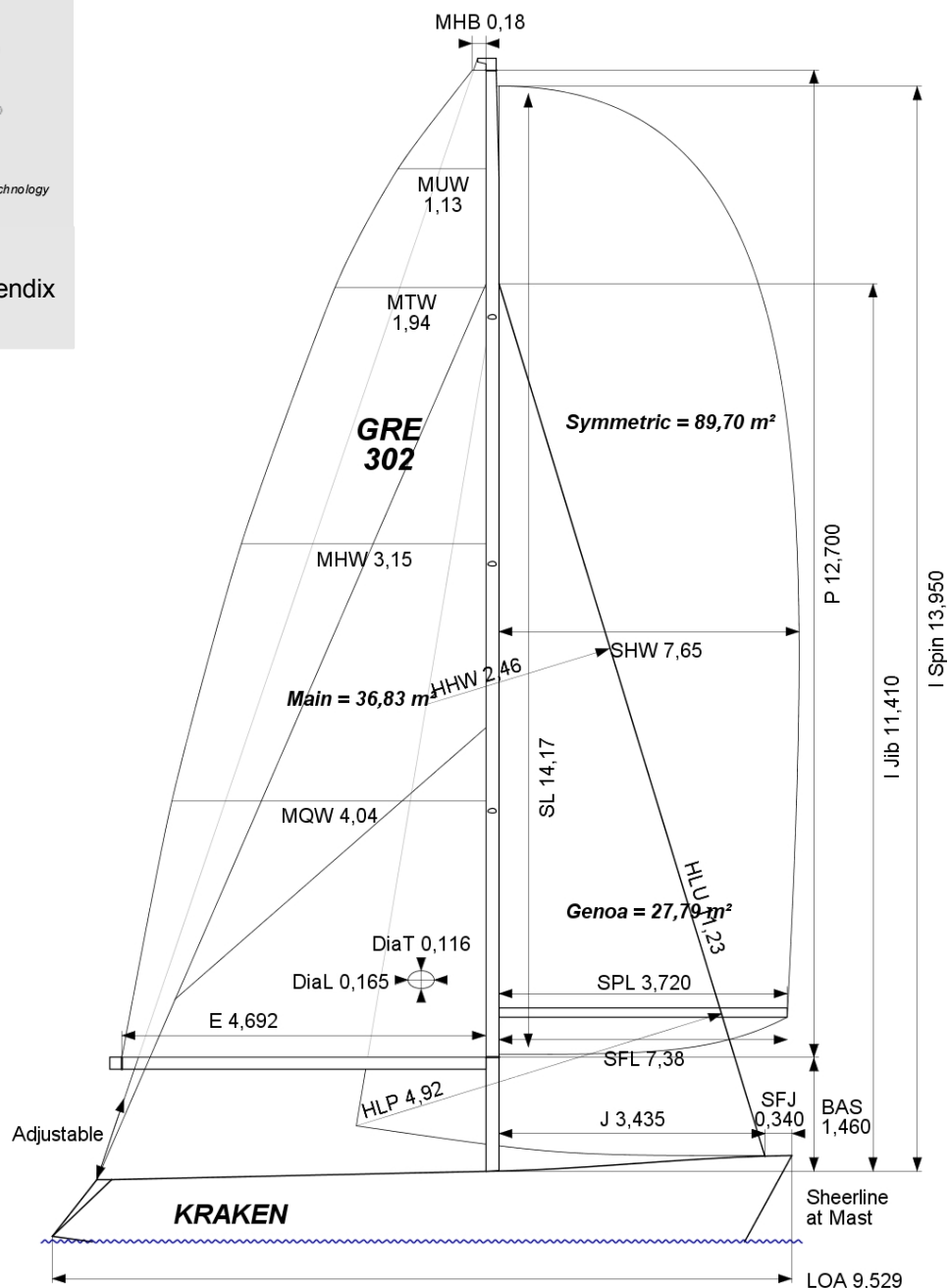
MEASUREMENT INVENTORY				
Measurer TSALTAS				
Date 31/05/2006				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	5.5	7.80	Grapnel
2	Anchor	9.0	7.80	GQR
4	Chain	18.0	7.80	chain + rope
4	Tools	6.0	4.50	
2	Tools	8.0	7.80	WB-tanks-
Id	Item	Maker	Model	
1	Engine	Yanmar	1GM10C	
Id	Item	Weight	Description	
4	Deck-Gear	12.0		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank Fuel		PVC	25.0	7.80		0-0	
Id	Item	Weight	Distance	VCG Description				
1	Battery	44.0	6.10	1 x 85Ah + 1 x 80Ah				
2	Battery	13.0	4.50	1 x 44Ah				



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (5)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.178	1.13	1.94	3.15	4.04	36.83	Spirideli	03/04/2017	Kakitsis	Dacron	
4	0.180	1.02	1.80	3.12	4.07	36.33	SPIRIDELI	28/06/2014	OS3	Carbon	ex. LIASKOVITI

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.08	0.66	1.26	2.46	3.69	4.92	11.23	143%	27.79			SPIRIDEL	28/06/2014	SAILLOFT	Polyest	LM technora?
1	0.07	0.59	1.14	2.36	3.63	4.86	11.20	141%	26.88	N		SPIRIDEL	21/04/2013	DOYLE	Polyest	LM mylar
2	0.07	0.56	1.08	2.23	3.45	4.69	10.98	137%	25.14			SPIRIDEL	21/04/2013	DOYLE	Polyest	MH mylar
3	0.11	0.60	1.14	2.23	3.32	4.40	11.15	128%	24.86			SPIRIDEL	21/04/2013	KAKITSIS	Polyest	ultra light mylar
4	0.08	0.50	0.98	1.99	3.12	4.36	11.02	127%	22.97			M.SPIRID	21/04/2013	OS3	Pentex	H black

SYMMETRIC SPINNAKERS (7)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
7	14.17	14.17	14.17	7.65	7.38	89.70	EXINTAVELONI	22/03/2011	NorthSails	Nylon	S2 0.75white
5	14.20	14.20	14.20	7.55	7.35	88.87	SPIRIDELI	02/04/2018		Nylon	0.6 white S2
6	14.19	14.17	14.18	7.47	7.40	88.11	SPIRIDELI	21/07/2018		Nylon	S1 0.5white
4	14.21	14.21	14.21	7.44	7.41	88.03	SPIRIDELI	03/04/2017	Banks	Nylon	
3	13.82	13.82	13.82	7.20	7.00	82.46	GIAPANTZIS	15/03/2007	OS3	Nylon	0.75 masthead blue-white

ASYMMETRIC SPINNAKERS (0)

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