

BOAT Name VENTUS Sail Nr GRE-933	GPH 651.4	HULL Length Overall 10.944m Maximum Beam 3.714m Displacement 6,620kg Draft 2.099m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.314% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class SUN FAST 37 Designer J. FAUROUX Builder JEANNEAU Series 03/2000 Age 07/2001 Age Allowance 0.487% Offset File SFAST37.OFF - 29/04/2002 12:10:26 Measurement by TSALT/GRETS/KALATZ - 05/03/2006		IMSL 9.833m VCGD 0.133m Sink 21.16kg/mm RL 7.894m VCGM 0.232m WS 28.17m² LSM0 9.763m Displacement/Length ratio 7.1139



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	630.3			702.6		
Time on Time	0.9519			0.9607		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	757.6	574.1	507.8	975.3	709.6	605.5
Time on Time	0.8910	1.1757	1.3292	0.6921	0.9513	1.1147

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1125.6	931.7	822.1	751.6	719.8	709.1	704.9
52°	739.3	623.0	552.6	519.2	504.7	499.5	497.1
60°	701.4	593.3	532.5	505.8	492.4	485.8	482.3
75°	673.4	570.5	518.8	495.2	480.5	469.6	458.4
90°	677.1	559.1	505.3	483.6	474.8	462.4	438.5
110°	667.8	550.3	499.3	474.8	454.7	438.0	420.3
120°	687.1	565.2	506.2	479.2	457.5	436.4	404.1
135°	756.7	616.3	533.7	495.6	473.0	452.0	411.4
150°	891.0	705.8	599.0	530.1	495.9	474.6	435.3
Run VMG	1028.9	815.1	690.8	605.9	547.2	506.8	464.2

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Number **000654**
ORC Ref **GRE01010303**
Issued On **30/07/2018**
VPP Ver. **2018 1.00**
Valid until **28/02/2019**

Crew Weight

Default **665kg**
Maximum **580kg**
Minimum* **435kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	652.7	0.9192
Double H.OSN	632.8	0.9481
Non Spin GPH	686.5	0.8740
Non Spin OSN	662.4	0.9058

Selected Courses							
Windward / Leeward	1077.3	873.4	756.4	678.7	633.5	608.0	584.5
Circular Random	906.0	728.0	631.5	574.9	540.3	518.2	492.5
Coastal / Long Distance	1072.4	819.9	679.4	592.0	548.3	517.5	469.7
Non Spinnaker	969.1	772.7	664.7	600.3	560.4	534.8	504.9

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	42.9°	41.2°	41.3°	40.5°	39.5°	39.0°	39.0°
Beat VMG	3.20	3.86	4.38	4.79	5.00	5.08	5.11
52°	4.87	5.78	6.52	6.93	7.13	7.21	7.24
60°	5.13	6.07	6.76	7.12	7.31	7.41	7.46
75°	5.35	6.31	6.94	7.27	7.49	7.67	7.85
90°	5.32	6.44	7.12	7.44	7.58	7.78	8.21
110°	5.39	6.54	7.21	7.58	7.92	8.22	8.56
120°	5.24	6.37	7.11	7.51	7.87	8.25	8.91
135°	4.76	5.84	6.75	7.26	7.61	7.97	8.75
150°	4.04	5.10	6.01	6.79	7.26	7.58	8.27
Run VMG	3.50	4.42	5.21	5.94	6.58	7.10	7.76
Gybe Angles	145.8°	150.3°	151.9°	156.0°	173.3°	180.0°	180.0°

Class Division Length

CDL = **8.864**

Storm Sails Areas


Heavy Weather Jib **27.58**
Storm Jib (JL=9.29) **10.22**
Storm Trysail **10.84**

Owner

BOAT	
Name VENTUS File GR933	Sail Nr GRE-933 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 02/01/2013		SG 1.0270	
FFM 1.271	FF 1.275	SFFP 0.385	
FAM 1.112	FA 1.110	SAFP 10.144	
W1 99.8	PD1 561.3	WD 10.790	
W2 99.8	PD2 561.1	GSA 1.0	
W3 99.8	PD3 559.0	RSA 1.0	
W4 99.8	PD4 557.7	PLM 9000.0	
LCF from stem on CL / on sheer		6.066 / 6.339	
Maximum beam station from stem		7.170	
RM Measured		151.5kg-m	
RM Default		154.7kg-m	
Limit of positive stability / Stab.Index		105.2° / 106.8	
Freeboard at mast at 3.790		1.167	

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 13.090	E 4.730	MDT1 0.124	MW 0.200
IG 14.219	J 3.790	MDL1 0.200	GO 0.220
ISP 14.379	SFJ 0.000	MDT2 0.124	BD 0.146
BAS 1.599	SPL 3.925	MDL2 0.200	MWT 149.50
FSP 0.082	TPS	TL 0.000	MCG 5.141




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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.370		
Type Folding 2 blades	PBW 0.120		
Twin Screw No	PIPA 0.0036		
PSA 19.800	PHL 0.116	ST3 0.090	ESL 0.861
PSD 0.025	ST1 0.022	ST4 0.052	
PHD 0.050	ST2 0.076	ST5 0.230	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.208	1.03	1.81	3.07	4.00	37.17 38.01 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	87.50 SL · (SFL + 4·SHW) / 6
	14.24	14.24	14.24	7.47	6.99	
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
0.13	0.70	1.26	2.23	3.16	4.08	14.23	30.94	Y		03/03/2018	Pentex	No 3a
0.09	0.58	1.10	2.12	3.12	4.13	14.00	29.48	Y		21/10/2017	Unknow	Jib Top
0.08	0.53	1.01	2.00	3.00	3.95	14.01	28.04	Y		14/09/2017	Carbon	No 3 New
0.07	0.52	0.99	1.97	2.94	3.92	13.93	27.46	Y		13/10/2013	Carbon	No 3 Old
					3.75	12.55	23.95			29/08/2016	Dacron	H.W.JIB
					2.54	8.20	10.60	Y		02/07/2011	Dacron	STORM JIB

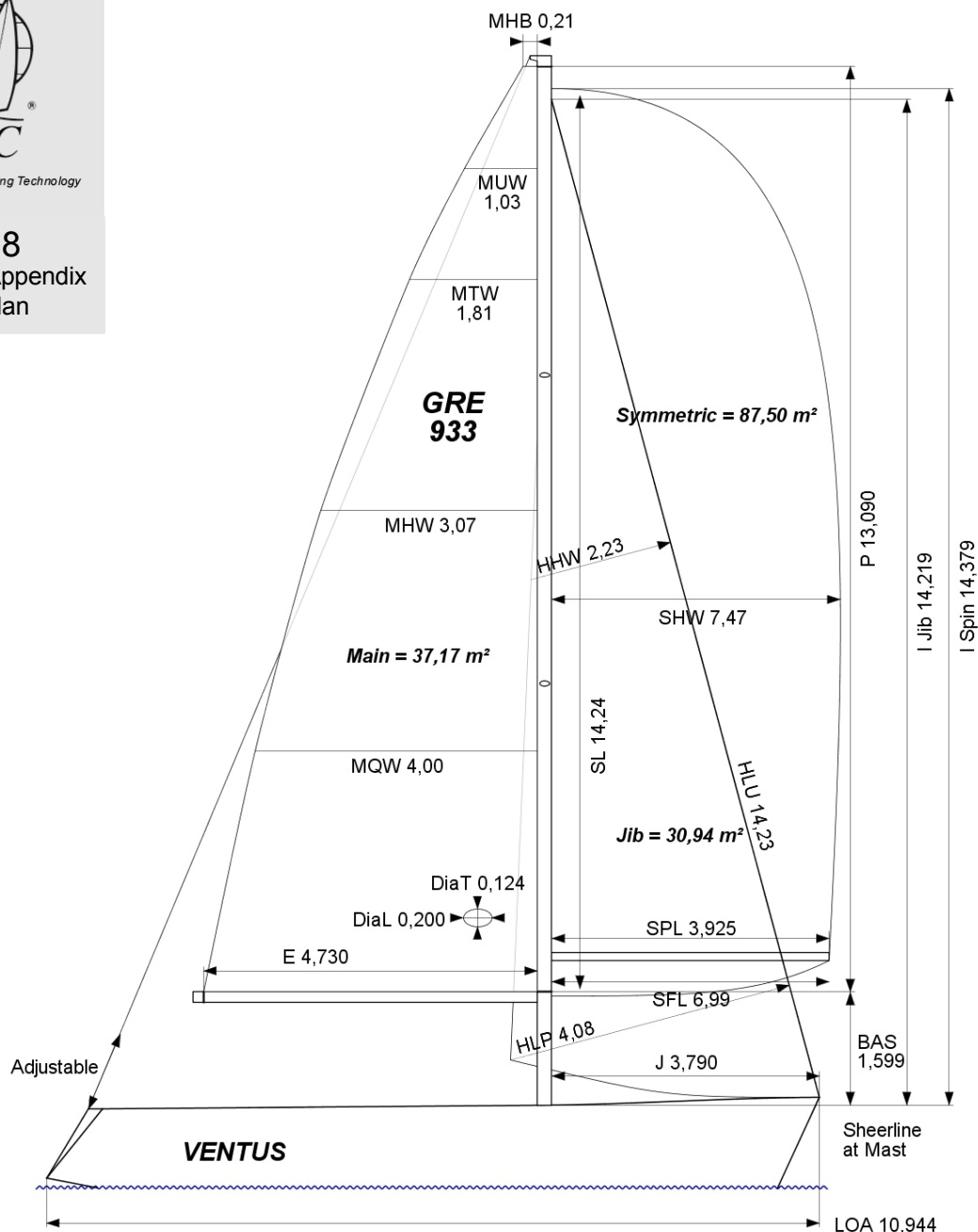
MEASUREMENT INVENTORY				
Measurer KALATZIS GRE-21				
Date 02/01/2013				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Tools	16.0	1.00	1.15 Windlass-
Id	Item	Maker	Model	
1	Engine	YANMAR	27HP	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank Fuel		PVC	136.0	8.50		5-0
2	Tank Water		PVC	180.0	2.40		0-0
3	Tank Water		PVC	140.0	8.50		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	16.0	5.20	1 x 55Ah			
2	Battery	72.0	7.80	3 x 82Ah			
h	Misc	30.0	6.40	Boiler			



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.208	1.03	1.81	3.07	4.00	37.17	KALATZIS	18/10/2016	QUANTUM	Carbon	Tafeta
1	0.170	1.02	1.80	3.06	4.00	37.07	KALATZIS	30/05/2013	QUANTUM	Carbon	

HEADSAILS (6)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3a	0.13	0.70	1.26	2.23	3.16	4.08	14.23	108%	30.94	Y		KALATZIS	03/03/2018	QUANTUM	Pentex	No 3a
J.Top	0.09	0.58	1.10	2.12	3.12	4.13	14.00	109%	29.48	Y		KALATZIS	21/10/2017		Unknow	Jib Top
3new	0.08	0.53	1.01	2.00	3.00	3.95	14.01	104%	28.04	Y		AFENDR	14/09/2017	QUANTUM	Carbon	No 3 New
3old	0.07	0.52	0.99	1.97	2.94	3.92	13.93	103%	27.46	Y		KALATZIS	13/10/2013	QUANTUM	Carbon	No 3 Old
4						3.75	12.55	99%	23.95			SPYRIDE	29/08/2016	QUANTUM	Dacron	H.W.JIB
5						2.54	8.20	67%	10.60	Y		KALATZIS	02/07/2011	QUANTUM	Dacron	STORM JIB

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	14.24	14.24	14.24	7.47	6.99	87.50	KALATZIS	07/10/2016	QUANTUM	Nylon	
1	13.89	13.89	13.89	7.38	6.89	84.29	KALATZIS	04/06/2013	QUANTUM	Nylon	RUNNER
2	13.92	13.92	13.92	7.35	6.90	84.22	AFENDRAS	22/04/2014	QUANTUM	Nylon	VMG
3	13.91	13.91	13.91	6.56	6.47	75.83	KALATZIS	28/04/2012	QUANTUM	Nylon	HEAVY

ASYMMETRIC SPINNAKERS (0)

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