

BOAT Name OXYGONON Sail Nr GRE-70	GPH 604.8	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,632kg Draft 2.181m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 9.511m VCGD 0.065m Sink 17.74kg/mm RL 9.004m VCGM 0.047m WS 23.15m² LSM0 9.344m Displacement/Length ratio 5.6777
GENERAL Class X-35 OD Designer JEPPESEN Builder X YACHTS Series 09/2005 Age 09/2005 Age Allowance 0.487% Offset File x35.od.off - 29/01/2015 16:31:16 Measurement by - 04/05/2006		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	589.7			656.6		
Time on Time	1.0175			1.0280		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	680.2	539.4	486.7	874.7	658.4	581.3
Time on Time	0.9923	1.2514	1.3868	0.7717	1.0252	1.1612

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	979.2	812.6	729.2	703.7	694.2	684.8	679.4
52°	646.4	548.8	511.9	501.0	496.6	494.4	487.1
60°	613.2	530.9	500.2	488.4	483.3	480.8	471.9
75°	587.7	519.1	491.2	473.7	462.9	457.4	451.2
90°	593.0	519.5	490.3	469.7	450.9	436.2	422.5
110°	606.8	514.5	479.2	453.5	436.8	423.5	404.7
120°	625.0	523.4	484.5	455.5	428.1	406.9	381.6
135°	692.7	564.6	505.5	475.5	447.6	420.4	364.5
150°	821.5	656.9	557.7	505.3	477.1	451.1	400.9
Run VMG	948.6	758.6	642.9	571.1	520.1	488.1	438.5

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Number **000430**
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VPP Ver. **2020 1.02**
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Crew Weight
Default **625kg**
Maximum **665kg**
Minimum* **499kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **633.6 0.9470**
Non Spin OSN **616.8 0.9727**

Selected Courses							
Windward / Leeward	963.9	785.6	686.0	637.4	607.1	586.5	558.9
Circular Random	821.0	667.9	587.5	541.8	513.8	495.2	469.6
Coastal / Long Distance	962.4	740.0	623.0	561.1	526.0	496.4	449.8
Non Spinnaker	873.1	704.6	614.6	562.7	530.9	510.0	482.4

Sails Limitations	
Headsails	Spinnakers
5	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°	39.4°	38.3°	38.1°	37.5°	38.1°
Beat VMG	3.68	4.43	4.94	5.12	5.19	5.26	5.30
52°	5.57	6.56	7.03	7.19	7.25	7.28	7.39
60°	5.87	6.78	7.20	7.37	7.45	7.49	7.63
75°	6.13	6.94	7.33	7.60	7.78	7.87	7.98
90°	6.07	6.93	7.34	7.66	7.98	8.25	8.52
110°	5.93	7.00	7.51	7.94	8.24	8.50	8.90
120°	5.76	6.88	7.43	7.90	8.41	8.85	9.43
135°	5.20	6.38	7.12	7.57	8.04	8.56	9.88
150°	4.38	5.48	6.45	7.13	7.55	7.98	8.98
Run VMG	3.80	4.75	5.60	6.30	6.92	7.38	8.21
Gybe Angles	142.0°	148.0°	151.5°	159.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **9.245**

Storm Sails Areas
Heavy Weather Jib **28.66**
Storm Jib (JL=9.48) **10.62**
Storm Trysail **12.16**

Owner

BOAT	
Name OXYGONON	Sail Nr GRE-70
File GR70X	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 11/06/2016				SG 1.0250	
FFM	1.305	FF	1.306	SFFP	0.075
FAM	0.980	FA	0.981	SAFP	10.275
W1	68.0	PD1	243.0	WD	11.145
W2	68.0	PD2	243.0	GSA	50.2
W3	68.0	PD3	243.0	RSA	5941.7
W4	68.0	PD4	243.0	PLM	2069.0
LCF from stem on CL / on sheer				5.953 / 6.156	
Maximum beam station from stem				7.300	
RM Measured				112.0kg-m	
RM Default				123.3kg-m	
Limit of positive stability / Stab.Index				115.8° / 117.0	
Freeboard at mast at 4.185				1.097	



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RIG					
Forestay Tension	Aft	Spreaders		2	
Inner Stay	None Fitted	Runners/Checkstays	0		
Carbon Mast	No	Jib Furler	No		
Fiber Rigging	No	Main Furler	No		
Non-Circular Rigging	No				
Articulated Bowsprit	No				
P	14.250	E	4.876	MDT1	0.125
IG	14.500	J	4.185	MDL1	0.185
ISP	14.530	SFJ		MDT2	0.122
BAS	1.745	SPL	4.180	MDL2	0.140
FSD	0.034	TPS		TL	1.230
				MW	0.184
				GO	0.204
				BD	0.220
				MWT	156.00
				MCG	4.600

MIZZEN RIG AND SAILS	
N/A	

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
ST2	0.178	ST4	0.112
		ST5	0.255
		EDL	2.390

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.24	1.09	1.88	3.19	4.13	41.94	42.81	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.36	14.36	14.36	7.77	7.37	92.02		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	Flying	Meas.Date	Material	Comment
0.10	0.65	1.21	2.30	3.35	4.46	14.56	33.19	Y	No	13/06/2014	Carbon	Light
0.11	0.65	1.21	2.28	3.34	4.44	14.49	32.89	Y	No	22/06/2016	Unknow	MATERIAL RAW J1
0.10	0.64	1.20	2.24	3.32	4.43	14.47	32.58	Y	No	22/06/2016	Unknow	MATERIAL RAW J2
0.09	0.49	0.91	1.83	2.83	3.91	14.29	27.12	Y	No	22/06/2016	Unknow	MATERIAL RAW / J3

MEASUREMENT INVENTORY				
Measurer GRE-56				
Date 11/06/2016				
Comment				
Internal Ballast total = 269.5				
Id	Item	Weight	Distance	VCG Description
1	Engine			YANMAR 3YM20
Id	Item	Weight Description		

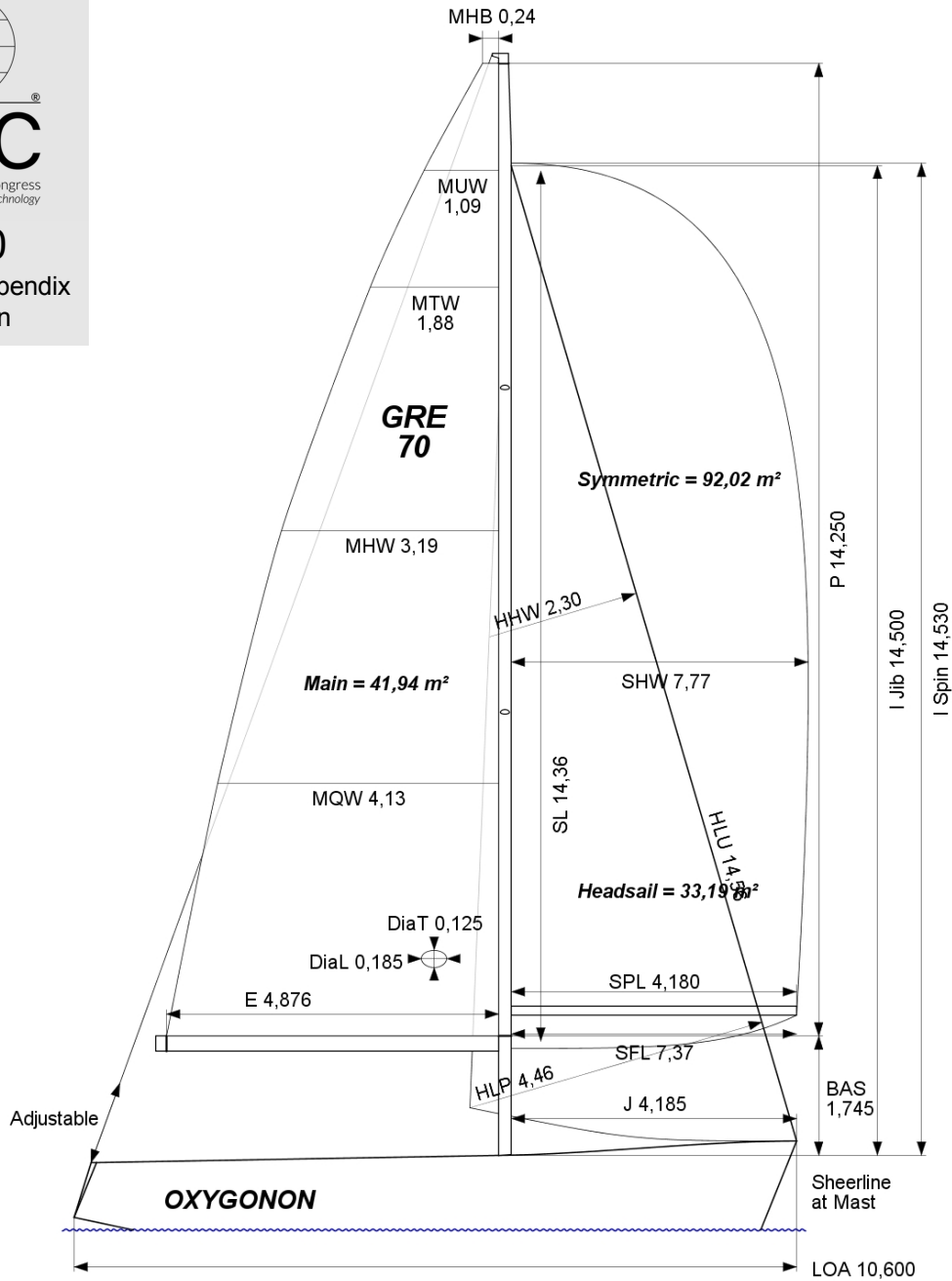
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank	WATER	PVC	130.0	5.40		0-0 EMPTY
1	Tank	FUEL	INOX	60.0	6.10		15-0 1/4 FULL
Id	Item	Weight	Distance	VCG Description			
1	Ballast	269.5	5.30	LEAD BARS			
2	Battery		4.70	1X 55 Ah			
1	Battery		4.90	1X 110 Ah			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
B1	0.24	1.09	1.88	3.19	4.13	41.95		22/06/2016	BANKS	Unknown	MATERIAL RAW					
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.10	0.65	1.21	2.30	3.35	4.46	14.56	107%	33.19	Y	No		13/06/2014	Quantum	Carbon	Light
B2	0.11	0.65	1.21	2.28	3.34	4.44	14.49	106%	32.89	Y	No		22/06/2016	BANKS	Unknow	MATERIAL RAW J1
B3	0.10	0.64	1.20	2.24	3.32	4.43	14.47	106%	32.58	Y	No		22/06/2016	BANKS	Unknow	MATERIAL RAW J2
B1	0.09	0.49	0.91	1.83	2.83	3.91	14.29	93%	27.12	Y	No		22/06/2016	BANKS	Unknow	MATERIAL RAW /
SYMMETRIC SPINNAKERS (6)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
B1	14.35	14.36	14.36	7.77	7.37	92.00		22/06/2016	BANKS	Nylon	S2 0,6-0,75					
B2	14.34	14.30	14.32	7.76	7.44	91.84		22/06/2016	BANKS	Nylon	S1 0,5					
2	14.26	14.26	14.26	7.69	7.43	90.77		27/03/2011	NORTH	Nylon	0.5					
1	14.22	14.22	14.22	7.65	7.04	89.21		27/03/2011	BANKS	Nylon	0.6					
3	14.10	14.10	14.10	7.61	7.33	88.76		27/03/2011	NORTH	Nylon	0.75					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				