

BOAT
Name Lenco Sail Nr NED 9110

GPH
617.1

HULL	
Length Overall	11.300 m
Maximum Beam	3.578 m
Displacement	6,459 kg
Draft	2.337 m
IMS Reg. Division	Cruiser/Racer
Dynamic Allowance	0.205%
Fwd Accommodation	Yes
Hull Construction	Cored
Carbon Rudder	Yes
Crew Arm Extension	
IMS L	10.415
VCGD	-0.019
VCGM	0.024
Sink	21.26 kg/mm
Wetted Area	28.99 m²



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2012
ORC International
Certificate

GENERAL
Class Salona 37
Designer J&J Design
Builder Salona Yachts
Series 10/2005
Age 12/2008
Age Allowance 0.455%
Offset File lenconew3.off - 5/8/2012 08:42:04
Measurement by M. Woort - 18/03/2009

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	593.9			675.3		
Time On Time	1.0102			0.9996		
Performance Line	PLT	PLD		PLT	PLD	
	0.823	83.9		0.779	157.3	
Triple Number	Low	Medium	High	Low	Medium	High
	0.8799	1.1750	1.4279	0.7117	0.9913	1.1733

Rating Office

Offshore
Racing
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1068.5	875.8	763.0	710.8	681.9	663.9	649.6
52°	696.1	576.2	519.9	489.9	477.6	469.8	461.7
60°	633.1	532.6	491.8	473.5	460.5	453.3	445.9
75°	574.0	501.0	465.7	448.6	439.2	430.6	421.4
90°	566.2	500.4	467.8	444.5	425.0	412.3	401.1
110°	634.2	528.4	479.0	448.7	424.0	404.3	378.5
120°	662.3	544.5	489.7	457.7	432.8	410.9	371.7
135°	748.8	600.8	525.3	482.9	454.9	431.8	390.8
150°	896.6	704.8	590.6	525.0	484.9	457.7	415.5
Run VMG	1035.4	813.8	680.9	594.4	536.9	496.4	445.8

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Selected Courses							
Windward / Leeward	1051.9	844.8	722.0	652.6	609.4	580.2	547.7
Circular Random	859.1	690.2	598.3	544.0	509.8	487.1	458.3
Ocean for PCS	918.7	722.0	611.5	543.4	498.4	466.7	423.4
Non Spinnaker	928.8	738.2	633.0	569.9	529.9	503.5	470.6

Crew Weight	
Declared	768 kg
Default*	736 kg
Non Manual Power	No

Special Scoring	
ToD	ToT
D. Hand OSN 596.8	1.0053
Non Spin. OSN 627.9	0.9556
N/S Perf. Line 51.6	0.729

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	43.5°	42.5°	40.9°	39.0°	37.9°	37.2°	37.4°
Beat VMG	3.37	4.11	4.72	5.06	5.28	5.42	5.54
52°	5.17	6.25	6.92	7.35	7.54	7.66	7.80
60°	5.69	6.76	7.32	7.60	7.82	7.94	8.07
75°	6.27	7.19	7.73	8.02	8.20	8.36	8.54
90°	6.36	7.19	7.70	8.10	8.47	8.73	8.98
110°	5.68	6.81	7.52	8.02	8.49	8.91	9.51
120°	5.44	6.61	7.35	7.87	8.32	8.76	9.68
135°	4.81	5.99	6.85	7.46	7.91	8.34	9.21
150°	4.01	5.11	6.10	6.86	7.42	7.87	8.66
Run VMG	3.48	4.42	5.29	6.06	6.71	7.25	8.08
Gybe Angles	142.7°	148.4°	151.3°	161.9°	168.7°	173.2°	175.5°

Sails Limitations		
Genoas	Jibs	Spinnakers
0	4	3
Spinnaker configuration Symmetric + Code 0		

Storm Sails Areas	
Heavy Weather Jib	31.13
Storm Jib (JL=9.87)	11.53
Storm Trysail	13.39

Owner

BOAT	
Name Lenco	Sail Nr NED 9110
File NED9110.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 07/07/2012	SG 1.0000	
FFM 1.390	FF 1.399	SFFP 0.300
FAM 1.088	FA 1.095	SAFP 10.260
W1 90.000	PD1 525.8	WD 11.440
W2 90.000	PD2 524.9	GSA 1.0
W3 90.000	PD3 515.6	RSA 1.0
W4 90.000	PD4 527.3	PLM 9000.0
Max. beam station / LCF from stem		7.100 / 6.331
RM Measured / Default		154.9 / 153.8
Limit of positive stability		118.3°
Stability Index		121.3
Freeboard at mast at 4.210		1.215

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 14.290	E 5.355	MDT1 0.104	TL 0.740
IG 15.089	J 4.210	MDL1 0.190	MWT 96.00
ISP 15.119	SFJ 0.000	MDT2 0.100	MCG
SPS 2.959	SPL 4.250	MDL2 0.183	CPW 3.040
BAS 1.589	TPS	MW 0.190	BD 0.220
BAL 0.230	FSP 0.068	GO 0.217	BWT 25.00


MIZZEN RIG AND SAILS	
N/A	

COMMENTS

PROPELLER		
Installation Strut	PRD 0.409	
Type Folding	PBW 0.102	
Twin Screw No	PIPA 0.0034	
ST1 0.050	ST3 0.178	ST5 0.255
ST2 0.178	ST4 0.104	EDL 2.005

WATER BALLAST	
N/A	

CENTERBOARD	
N/A	




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SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0.150	1.06	1.93	3.42	4.45	0.00	44.88	45.83	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	33.88	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
	0.09	0.72	1.42	2.47	3.42	14.50	4.22			
Symmetric	SL	SMG	SF				92.34	SL · (SF + 4·SMG) / 6		
	14.75	7.53	7.44							
Asymmetric	Not Available									
Code Zero	SLU	SLE	ASL	AMG	ASF			61.64	ASL · (ASF + 4·AMG) / 6	
	14.47	15.08	14.78	4.32	7.75					

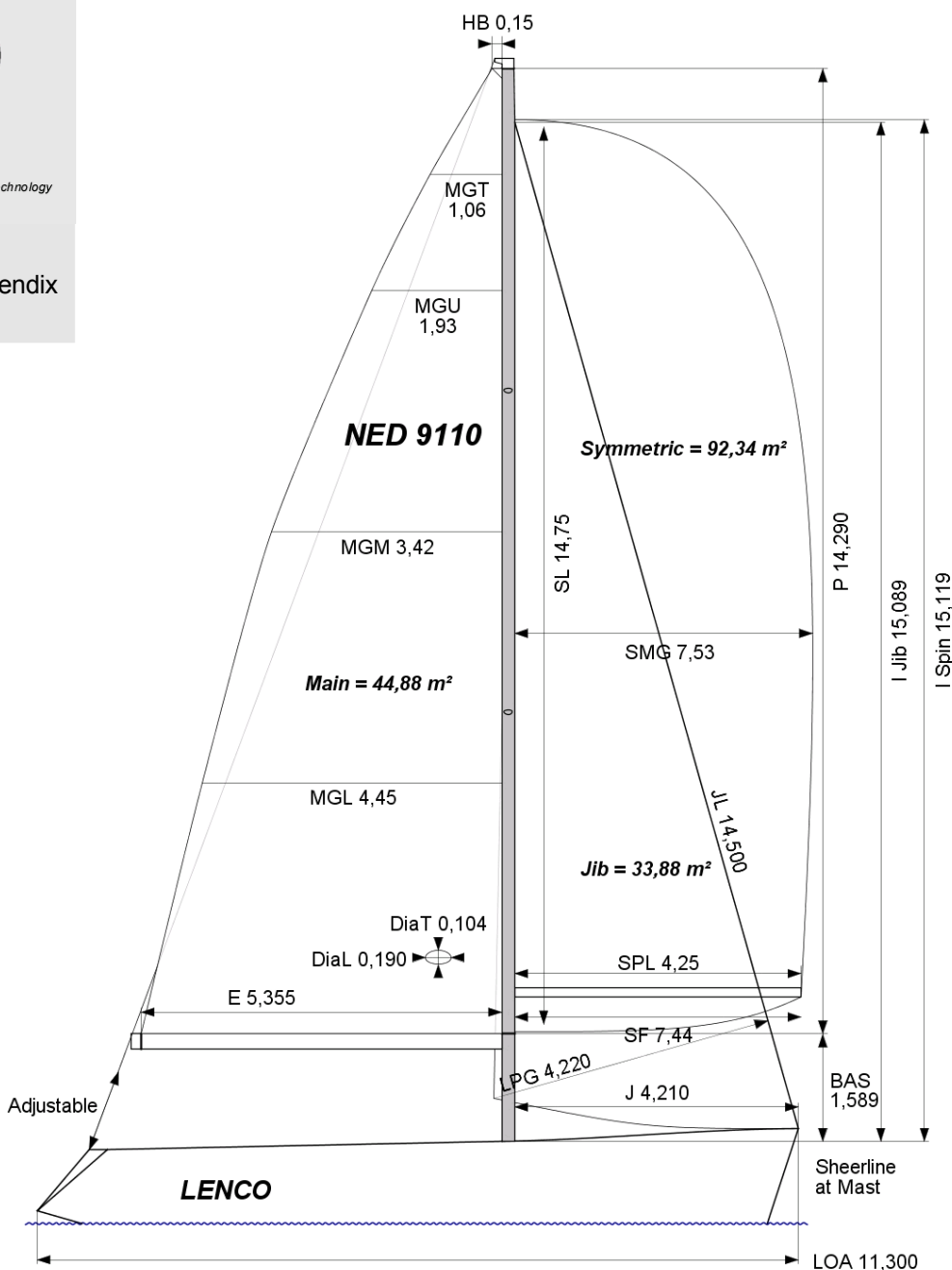
MEASUREMENT INVENTORY			
Measurer Duvancic			
Date 10/06/2011			
Comment			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>
1	Engine	Yanmar	3YM30
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>
1	Deck Gear	7.0	

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>	
2	Tank water		fix	160.0	9.30			0.0	
1	Tank fuel		fix	110.0	9.30			80.0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>		<i>Description</i>			
3	Ballast	90.0	8.71			starboard			
2	Ballast	90.0	8.71			Port			
1	Ballast	120.0	9.31			Centre			
2	Battery	40.0	6.00			170 AH starboard			
1	Battery	25.0	5.70			100 AH starboard			



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment		
05	0.150	1.06	1.93	3.42	4.45		44.88	van raam	20/06/2012		Unknown			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
07	0.09	0.72	1.42	2.47	3.42	4.22	14.50	100%	33.89	van raam	21/06/2012		Unknown	
09	0.09	0.72	1.45	2.46	3.28	4.22	14.68	100%	33.89				Unknown	
08	0.09	0.71	1.39	2.47	3.42	4.22	14.50	100%	33.80				Unknown	
04	0.08	0.50	1.00	2.01	3.02	4.01	14.49	95%	29.17	Duvancic	10/06/2011	One Sails	Carbon	
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
07	14.75	7.53	7.44	92.34		30/07/2012	north sails	Unknown						
05	14.72	7.60	7.05	91.88	Duvancic	10/06/2011	One Sails	Unknown						
06	14.75	7.54	7.10	91.60	van raam	21/06/2012		Unknown						
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		
03	14.47	15.08	14.78	4.32	7.75	61.64	code0	van raam	21/06/2012		Unknown			