

BOAT Name LOKO Sail Nr RUS 3288	GPH 706.5	HULL Length Overall 6.141m Maximum Beam 2.142m Displacement 697kg Draft 1.508m Plan Review IMS Reg. Division Sportboat Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder No Crew Arm Extension 0.50
GENERAL Class SB20 ONE DESIGN Designer TONY CASTRO Builder LASER Series 08/2003 Age 01/2006 Age Allowance 0.487% Offset File lasb3.OD - 10/01/2020 00:00:00 Measurement by - 16/03/2012		IMSLS 5.936m VCGD -0.192m Sink 6.43kg/mm RL 6.085m VCGM -0.172m WS 8.47m² LSM0 5.747m Displacement/Length ratio 3.6721



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	689.1			780.2		
Time on Time	0.8707			0.8652		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	787.4	636.1	555.2	1003.4	785.1	682.2
Time on Time	0.8572	1.0612	1.2158	0.6727	0.8598	0.9895

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1181.1	988.6	885.7	856.0	851.7	854.0	855.0
52°	778.2	672.5	633.0	614.8	608.5	606.1	595.5
60°	738.6	652.7	617.8	591.8	581.5	576.4	562.2
75°	712.6	639.9	601.7	563.7	538.6	527.4	516.6
90°	678.6	612.4	584.3	555.6	517.0	485.6	461.3
110°	670.6	598.2	542.0	508.5	484.5	459.4	416.0
120°	686.3	607.3	545.6	489.9	454.2	428.7	376.3
135°	755.3	640.4	580.4	523.2	465.8	411.9	311.4
150°	885.0	712.1	636.8	591.3	539.6	485.6	333.8
Run VMG	1021.9	822.3	734.8	675.3	623.1	560.7	385.5

Certificate

Number **3288.1**
ORC Ref **03570000S4**
Issued On **21/08/2020**
VPP Ver. **2020 1.00**
Valid until **31/12/2020**

Crew Weight

Default 312kg
Maximum **270kg**
Minimum* **185kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 759.9	0.7896
Non Spin OSN 733.6	0.8179

Selected Courses							
Windward / Leeward	1101.5	905.4	810.3	765.6	737.4	707.3	620.2
Circular Random	951.3	779.3	688.1	633.6	596.3	566.4	513.5
Coastal / Long Distance	1093.5	853.6	735.9	664.6	617.6	573.6	484.3
Non Spinnaker	1046.8	845.6	737.6	674.2	633.8	605.4	563.4

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°	41.3°	38.3°	37.5°	37.5°	37.9°	39.0°
Beat VMG	3.05	3.64	4.06	4.21	4.23	4.22	4.21
52°	4.63	5.35	5.69	5.86	5.92	5.94	6.05
60°	4.87	5.52	5.83	6.08	6.19	6.25	6.40
75°	5.05	5.63	5.98	6.39	6.68	6.83	6.97
90°	5.30	5.88	6.16	6.48	6.96	7.41	7.80
110°	5.37	6.02	6.64	7.08	7.43	7.84	8.65
120°	5.25	5.93	6.60	7.35	7.93	8.40	9.57
135°	4.77	5.62	6.20	6.88	7.73	8.74	11.56
150°	4.07	5.06	5.65	6.09	6.67	7.41	10.78
Run VMG	3.52	4.38	4.90	5.33	5.78	6.42	9.34
Gybe Angles	146.0°	149.3°	150.5°	176.0°	144.5°	143.0°	142.0°

Class Division Length

CDL = **6.005**

Storm Sails Areas

Heavy Weather Jib	7.66
Storm Jib (JL=4.90)	2.84
Storm Trysail	4.46

Owner

BOAT	
Name LOKO	Sail Nr RUS 3288
File RU3288_Loko	Data in meters/kilograms

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 7.950	E 3.200 MDT1 0.070 MW 0.090
IG 7.340	J 2.180 MDL1 0.100 GO 0.145
ISP 8.940	SFJ 0.050 MDT2 0.070 BD 0.140
BAS 0.940	SPL 0.000 MDL2 0.082 MWT 31.10
FSD	TPS 4.050 TL 1.400 MCG 3.290

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 18/05/2016		SG 1.0260
FFM 0.705	FF 0.705	SFFP 0.270
FAM 0.472	FA 0.472	SAFP 6.071
W1 17.9	PD1 568.3	WD 6.160
W2 17.9	PD2 566.3	GSA 1.0
W3 17.9	PD3 569.1	RSA 1.0
W4 17.9	PD4 565.9	PLM 9000.0
LCF from stem on CL / on sheer		3.501 / 3.642
Maximum beam station from stem		4.000
RM Measured		15.3kg-m
RM Default		15.6kg-m
Limit of positive stability / Stab.Index		108.6° / 99.6
Freeboard at mast at 2.230		0.591



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IMS Measurement
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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate	
Number 3288.1	
ORC Ref 03570000S4	
Issued On 21/08/2020	
VPP Ver. 2020 1.00	
Valid until 31/12/2020	

COMMENTS	

MOVABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.23	0.81	1.43	2.32	2.90	16.61	17.28	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	9.55	9.55	9.55	5.64	5.40	44.50	AS · (SFL + 4·SHW) / 6		

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
0.04	0.42	0.72	1.32	1.84	2.22	7.13	8.87	N	No		Unknow	

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Internal Ballast total = 0.0				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	OUTBOARD ENGINE	Min. 12 Kg	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>

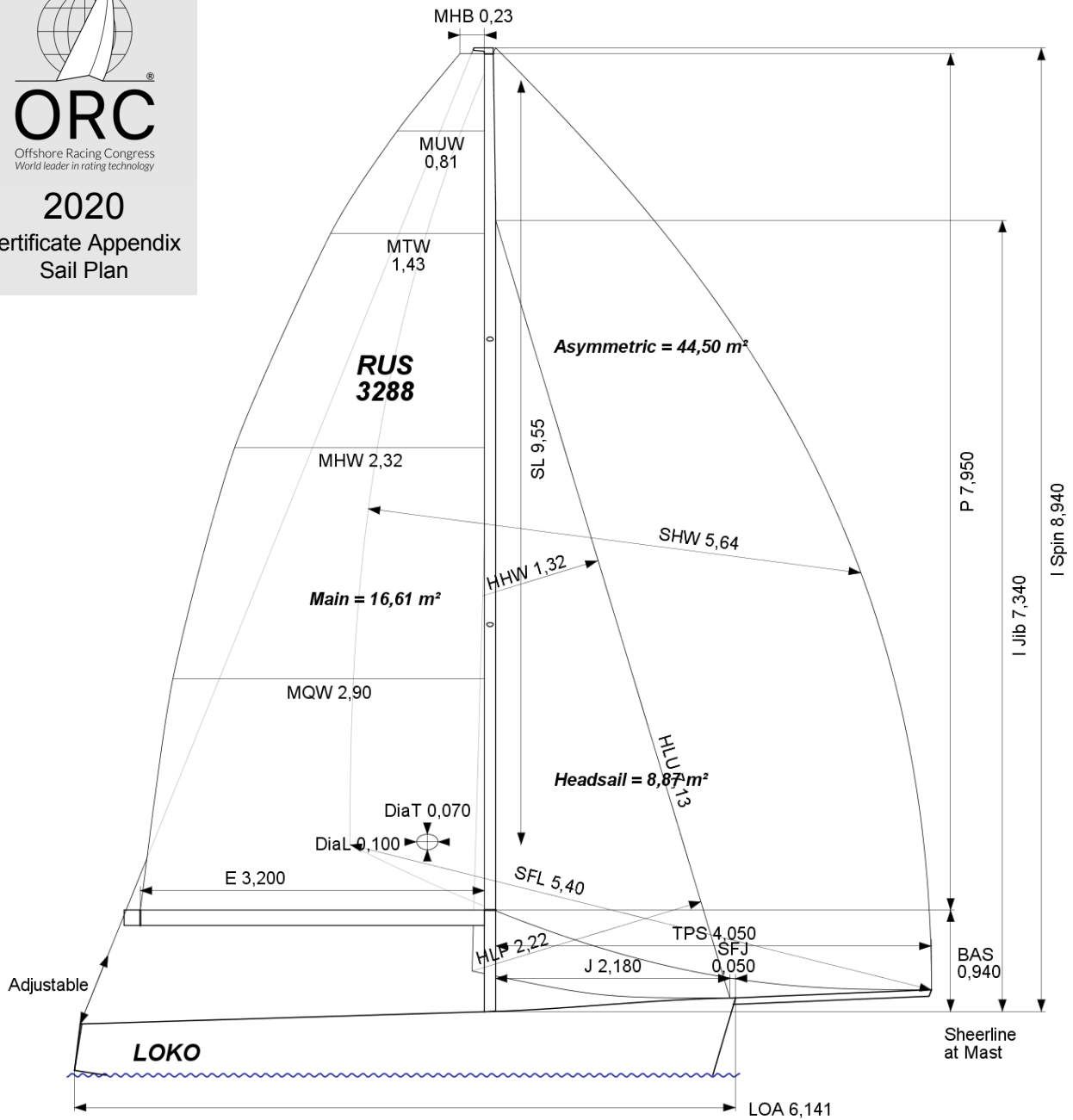


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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.23	0.81	1.43	2.32	2.90	16.61					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.04	0.42	0.72	1.32	1.84	2.22	7.13	102%	8.87	N	No					Unknow

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	9.55	9.55	9.55	5.64	5.40	44.51	asym					* Copied from legacy *