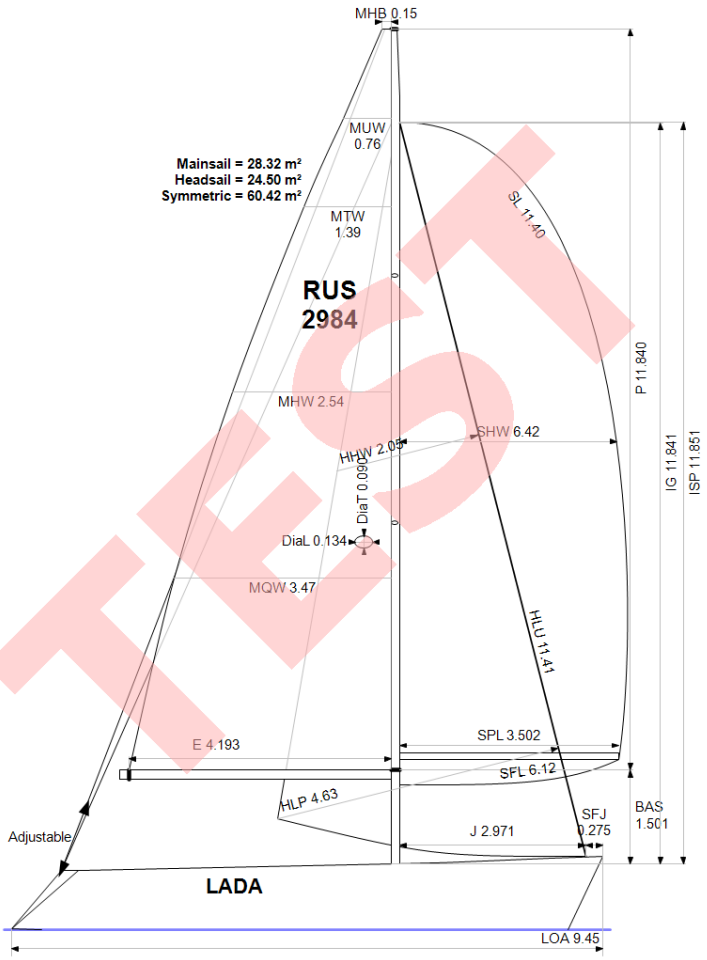
Club
Certificate
2022

Boat
LADA
RUS 2984

Novokolomiazhskii av 11-70
St-Petersburg
Russia

APH: **638.6** CDL: **7.337**

GPH: **720.9** CertNo: **2984.1**



TEST

Rated boat velocities in knots							
Wind Velocity	**6 kt**	**8 kt**	**10 kt**	**12 kt**	**14 kt**	**16 kt**	**20 kt**
Beat Angles	45.0°	42.7°	42.0°	42.4°	42.0°	41.7°	42.4°
Beat VMG	2.82	3.45	3.91	4.22	4.37	4.43	4.40
52°	4.40	5.23	5.90	6.29	6.45	6.51	6.53
60°	4.69	5.53	6.17	6.51	6.67	6.74	6.77
75°	4.88	5.78	6.38	6.69	6.88	7.01	7.13
90°	4.87	5.89	6.54	6.83	6.96	7.16	7.49
110°	4.92	5.99	6.64	6.98	7.26	7.53	7.81
120°	4.75	5.81	6.55	6.92	7.22	7.55	8.12
135°	4.25	5.26	6.15	6.68	7.01	7.33	8.04
150°	3.62	4.63	5.49	6.25	6.71	7.02	7.65
Run VMG	3.13	4.01	4.77	5.49	6.11	6.59	7.19
Gybe Angles	146.6°	151.4°	153.8°	157.4°	170.0°	179.0°	179.0°

BOAT

Class	**FIRST 32 S5**
Designer	**JEAN BERRET**
Builder	**BENETEAU**
Age date	**05.1990**
Series date	**05.1987**
Offset file	**F072.BOF**
Data file	**RU2984_LADA**

HULL

Length Overall	**9.446 m**
Maximum Beam	**3.310 m**
Draft	**1.394 m**
Displacement	**4 866 kg**
DLR	**7.9220**
IMS Division	**Cruiser/Racer**
Dynamic Allowance	**0.406%**
Age Allowance	**0.487%**

PROPELLER

Installation	**Shaft exposed**
Type	**Solid 2 blades**
Diameter	**0.385m**

CREW

Maximum weight	**400 kg**
Minimum weight	**300 kg** ** when applied*
Non Manual Power	**No**
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**28.32**	**28.75**
Headsail Luffed	**24.50**	**24.50**
Headsail Flying		
Symmetric	**60.42**	**60.42**
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	**8.69**
Storm Jib	**7.30**
Heavy Weather Jib	**19.69**

SAIL LIMITS

Headsails	**5** ** Woven polyester sails*
Spinnakers	**4**

STABILITY

Righting Moment	**70.8 kg·m**
Stability Index	**108.5**

COMMENTS

serial number BEYDA0891091

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.

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Time Allowances in secs/NM							
Wind Velocity	**6 kt**	**8 kt**	**10 kt**	**12 kt**	**14 kt**	**16 kt**	**20 kt**
Beat VMG	1275.0	1043.4	921.8	853.2	824.6	813.2	818.8
52°	817.7	687.7	610.7	572.4	558.2	552.8	551.2
60°	767.2	650.7	583.5	553.2	539.9	534.5	531.6
75°	737.0	623.0	564.4	538.4	523.6	513.6	504.7
90°	738.8	611.6	550.1	526.8	517.0	502.9	480.7
110°	732.3	601.2	542.5	516.0	495.6	478.4	460.7
120°	758.6	619.7	549.9	520.5	498.6	477.1	443.2
135°	846.6	684.0	585.0	538.7	513.5	491.2	448.0
150°	995.8	777.6	655.4	576.0	536.6	513.2	470.8
Run VMG	1149.8	897.1	754.4	656.2	589.4	546.4	501.0
Selected Courses							
Windward / Leeward	1212.4	970.3	838.1	754.7	707.0	679.8	659.9
All purpose	927.8	755.1	662.1	611.1	584.0	567.1	548.8

Single Number Scoring Options		
Course	**Time On Distance**	**Time On Time**
Windward / Leeward	794.1	0.7556
All purpose	638.6	0.9395

Custom scoring options for Russia

Single Number	Time On Distance	Time On Time
Predominantly Upwind	698.9	0.8585
Predominantly Downwind	643.1	0.9330

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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	**FIRST 32 S5**	LOA	**9.446**	VCGD	**0.346**
Measurement	**24.05.2022**	Max. Beam	**3.310**	VCGM	**0.193**
HIN		Draft	**1.394**	RM Measured (kg·m)	**70.8**
Plan review		Displacement	**4 866**	RM Default (kg·m)	**77.1**
Hull construction	**Solid**	Wetted area	**21.52**	Limit of positive stability(°)	**107.3**
Aramid Hull Core	**No**	IMS L	**8.549**	Stability Index	**108.5**
Carbon Rudder	**No**	LSM0	**8.500**		
Light stanchions	**No**	Acc. length	**9.446**		
Trim tab	**No**	Sink (kg/mm)	**15.75**		

PROPELLER

Propeller Type	**Solid 2 blades**										
Installation	**Shaft exposed**	PRD	**0.385**	PSD	**0.025**	PSA	**21.1°**	ST1	**0.028**	ST4	**0.057**
Twin screw	**No**	PBW	**0.127**	PHD	**0.051**	ESL	**0.995**	ST2	**0.102**	ST5	**0.326**
Hydro generator	**No**	PIPA	**0.0179**	PHL	**0.154**			ST3	**0.102**		

RIG

Forestay tension	**Aft**	P	**11.840**	E	**4.193**
Inner stay	**None Fitted**	IG	**11.841**	J	**2.971**
Carbon mast	**No**	ISP	**11.851**	BAS	**1.501**
Headsail furler	**No**	MDT1	**0.090**	FSD	**0.034**
Mainsail furler	**No**	MDL1	**0.134**	SFJ	**0.275**
Articulated bowsprit	**No**	MDT2	**0.071**	SPL	**3.502**
Non-circular rigging	**No**	MDL2	**0.092**	WPL	
Fiber rigging	**No**	TL	**1.090**	TPS	
Runners/Checkstays	**1**	MW	**0.092**	BD	**0.144**
Spreaders	**2**	GO	**0.150**	MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	**Poles inclining**	SFFP	**1.058**	SAFP	**8.378**	W1	**54.0**	PD1	**131.0**	WD	**9.170**
Flotation Date	**22.05.2022**	FFM	**1.140**	FAM	**0.948**	W2	**54.0**	PD2	**131.0**	PLM	**2140.00**
Measurer	**RUS 92**	FF	**1.140**	FA	**0.948**	W3	**54.0**	PD3	**131.0**	GSA	**113.1**
Comment		LCFcl	**5.268**	LCFsh	**5.518**	W4	**54.0**	PD4	**131.0**	RSA	**113.1**
		SG	**1.0250**	HBI	**1.046**						

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MAINSAIL

Id	*MHB*	*MUW*	*MTW*	*MHW*	*MQW*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
M1	0.15	0.76	1.39	2.54	3.47	28.32	17.03.2008		Dacron	

HEADSAIL

Id	*HHB*	*HUW*	*HTW*	*HHW*	*HQW*	*HLP*	*HLU*	*Btn*	*Flying*	*FT*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
5	0.06	0.55	1.05	2.05	3.07	4.63	11.41	No	No		24.50	20.05.2022		Dacron	
2	0.06	0.41	0.79	1.58	2.45	3.48	11.30	No	No		18.70	20.05.2022		Dacron	

SYMMETRIC SPINNAKER

Id	*SLU*	*SLE*	*SL*	*SHW*	*SFL*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
S1	11.40	11.40	11.40	6.42	6.12	60.42	17.03.2008	NO INFO	Nylon	