



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

A.Goštauto g. 40 A
LT-03163, Vilnius
Lithuania
+370 650 28392



Certificate

Number **LT1317**
Issued On **2019-07-10**
ORC Ref **lt00000922**
VPP Ver. **2019 1.01**
Valid until **2019-12-31**

Crew Weight

Default 496kg
Maximum **530kg**
Minimum* **398kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin **GPH 745,7 0,8046**
Non Spin **OSN 720,2 0,8331**

Sails Limitations

Headsails **5** Spinnakers **3**
Dacron Sails

Spinnaker configuration
Symmetric: **Yes 62,75**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7,264

Stability (Estimated)

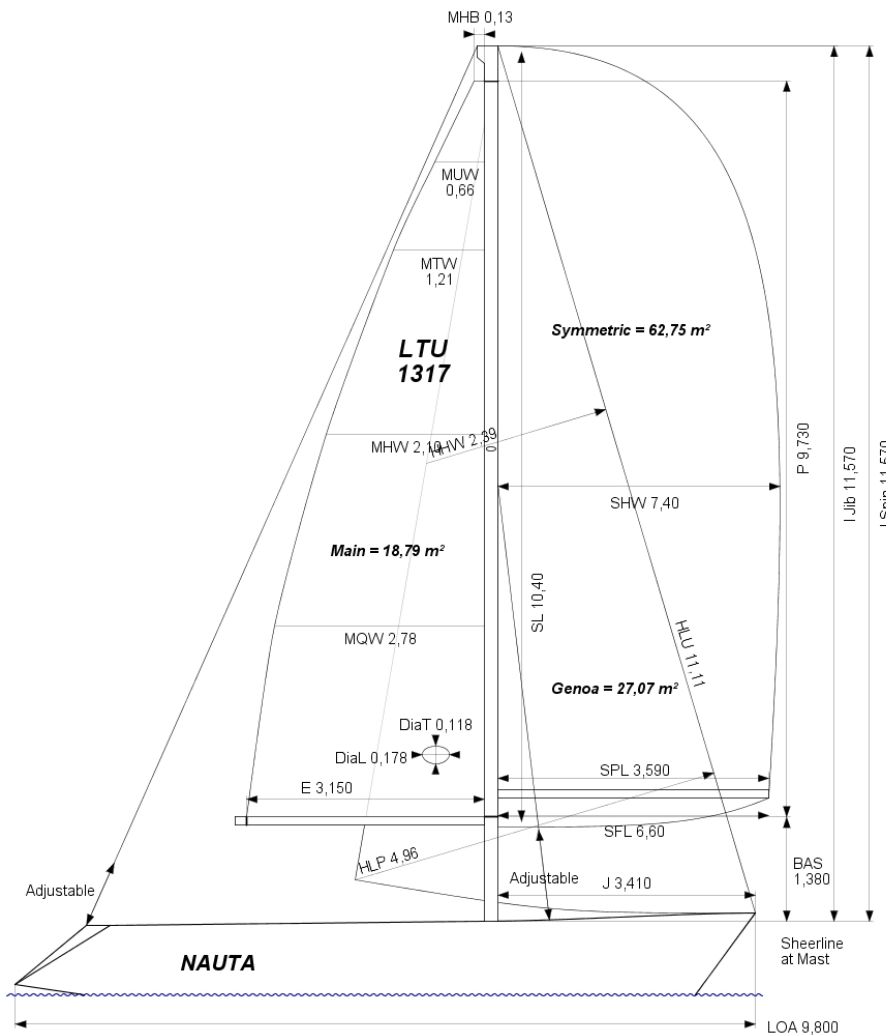
Limit Positive Stab.: **115,6°**
Stability Index: **114,5**

Owner

Vidmantas Balevicius
Kaunas
Lithuania

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT Name NAUTA Sail Nr LTU 1317		GPH 709,3	HULL Data File Nauta_LTU1317 LOA 9,800m Offset File First305.OFF MB 3,225m Displacement 4,087kg Draft 1,763m			
CLASS Class FIRST 305 Designer J. BERRET Builder BENETEAU Series 01-1986 Age Date 01-1986 Age Allowance 0,487%		IMS Division Cruiser/Racer Dynamic All. 0,440% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions IMSL 7,953m VCGD 0,030m Sink 13,53kg/mm RL 6,574m VCGM 0,022m WS 18,58m² LSMO 7,945m Displacement/Length ratio 8,1493				
COMMENTS P - 9.75, E - 3.36, SPL - 3.09		Water Ballast 0 Trim Tab No BLR Index 0,0000				
PROPELLER Installation Shaft exposed PRD Type Folding 2 blades PIPA 0,0000		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	687,5			762,8		
Time on Time	0,8727			0,8849		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	819,6	627,0	554,2	1053,0	771,1	656,8
Time on Time	0,8236	1,0766	1,2180	0,6410	0,8754	1,0277

BOAT	
Name NAUTA	Sail Nr LTU 1317
File Nauta_LTU1317	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Club Estimated VCG		
Flotation date 01-03-1996	SG 1,0250	
FFM 1,070	FF 1,079	SFFP 0,512
FAM 0,920	FA 0,925	SAFP 8,543
LCF from stem on CL / on sheer		5,145 / 5,350
Maximum beam station from stem		6,281
RM Measured		68,4kg·m
RM Default		66,4kg·m
Limit of positive stability / Stab.Index		115,6° / 114,5
Freeboard at mast at 3,410		0,966



ORC
Offshore Racing Congress
World leader in rating technology

2019
Measurements
Datasheet


RIG				
Forestay Tension Aft	Spreaders 1		Runners 0	
Inner Stay Adjustable	Jumper Struts None		Jib Furler No	
Carbon Mast No	Main Furler No		Without Backstay No	
Taper Hollows No				
Fiber Rigging No				
Lenticular Rigging No				
Articulated Bowsprit No				
P 9,730	E 3,150	MDT1 0,118	MW 0,176	
IG 11,570	J 3,410	MDL1 0,178	GO 0,216	
ISP 11,570	SFJ 0,000	MDT2	BD	
BAS 1,380	SPL 3,590	MDL2	MWT 84,50	
FSP	TPS	TL	MCG 4,220	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0,0000		
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

Certificate

Number **LT1317**
ORC Ref **lt00000922**
Issued On **2019-07-10**
VPP Ver. **2019 1.01**
Valid until **2019-12-31**



COMMENTS	
P - 9.75, E - 3.36, SPL - 3.09	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0,13	0,66	1,21	2,10	2,78	18,80	LBS#6	06-07-2019	NS	Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,07	0,61	1,18	2,39	3,65	4,96	11,11	145%	27,08			LBS#6	06-07-2019	NS	Dacron	
3						3,03	9,84	89%	15,18	Y		LBS#6	06-07-2019		Dacron	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	10,40	10,40	10,40	7,40	6,60	62,75				Unknown						
3	10,30	10,30	10,30	5,70		50,24				Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2019

ORC Club Certificate Appendix

BOAT	
Name NAUTA	Certificate Number LT1317
Sail Nr LTU 1317	Issued On 2019-07-10

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1212,6	1015,7	901,9	823,6	780,7	764,7	762,7
52°	794,1	672,9	604,6	572,1	555,0	545,6	541,1
60°	753,7	638,4	583,0	558,1	542,9	532,4	524,3
75°	727,0	617,1	568,4	546,4	531,0	517,8	498,0
90°	736,5	613,6	557,4	532,8	519,1	511,5	485,5
110°	725,8	599,2	548,8	523,1	500,9	480,9	458,4
120°	747,5	613,6	554,6	526,9	503,5	480,9	445,2
135°	818,6	669,7	580,1	543,1	519,3	496,4	454,2
150°	956,2	762,0	646,8	575,2	542,9	520,8	479,0
Run VMG	1104,1	879,6	745,6	653,4	590,2	552,4	509,0
Selected Courses							
Windward / Leeward	1158,3	947,7	823,7	738,5	685,4	658,6	635,9
Circular Random	981,6	791,2	688,0	627,4	589,9	565,8	537,2
Coastal / Long Distance	1152,9	889,5	740,9	647,4	598,4	565,7	514,5
Non Spinnaker	1046,1	837,2	722,6	654,2	611,5	583,8	551,4

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	42,6°	41,8°	41,6°	40,4°	38,9°	38,7°	39,0°
Beat VMG	2,97	3,54	3,99	4,37	4,61	4,71	4,72
52°	4,53	5,35	5,95	6,29	6,49	6,60	6,65
60°	4,78	5,64	6,17	6,45	6,63	6,76	6,87
75°	4,95	5,83	6,33	6,59	6,78	6,95	7,23
90°	4,89	5,87	6,46	6,76	6,93	7,04	7,42
110°	4,96	6,01	6,56	6,88	7,19	7,49	7,85
120°	4,82	5,87	6,49	6,83	7,15	7,49	8,09
135°	4,40	5,38	6,21	6,63	6,93	7,25	7,93
150°	3,77	4,72	5,57	6,26	6,63	6,91	7,52
Run VMG	3,26	4,09	4,83	5,51	6,10	6,52	7,07
Gybe Angles	147,3°	151,3°	151,6°	158,3°	180,0°	180,0°	180,0°