



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

Žemaites 6
LT-03117 Vilnius
Lithuania
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Certificate

Number **LT1537**
Issued On **2018-05-11**
ORC Ref **lt00000528**
VPP Ver. **2018 0.02b**
Valid until **2018-12-31**

Crew Weight

Declared **850kg**
Default* **799kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **633,0 0,9479**
Non Spin OSN **614,8 0,9760**

Sails Limitations

Headsails **6** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes 110,88**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 10,113

Stability (Estimated)

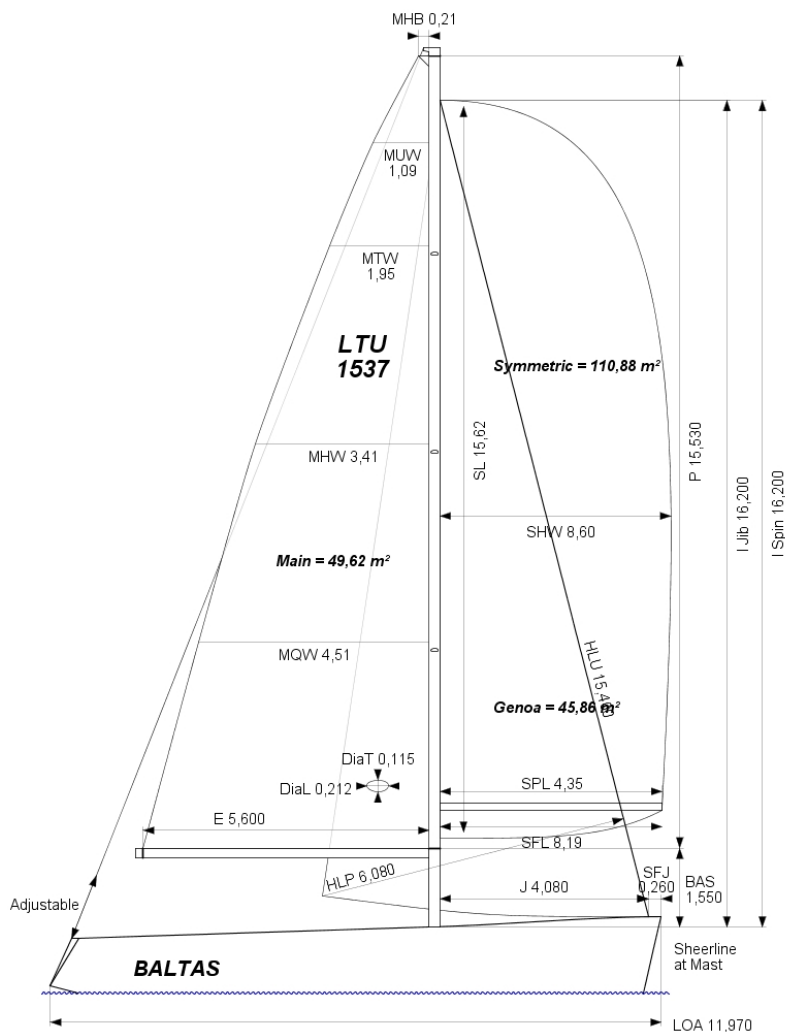
Limit Positive Stab.: **122,2°**
Stability Index: **126,9**

Owner

UAB "Savas"
Klaipėdos plentas 46-19

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

Signature



BOAT Name Baltas Sail Nr LTU 1537		GPH 604,9	HULL Data File Baltas LOA 11,970m Offset File DE39SQ19.OFF MB 3,786m Displacement 8.144kg Draft 1,969m			
CLASS Class Dehler 39 SQ Designer Judel/Vrolijk Builder Dehler Series 12-1999 Age Date 06-2007 Age Allowance 0,487%		IMS Division Cruiser/Racer Dynamic All. 0,156% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 11,139m VCGD -0,290m Sink 24,07kg/mm RL 9,084m VCGM -0,077m WS 32,43m² LSM0 11,098m Displacement/Length ratio 5,9580		
COMMENTS 8153 5,28		Water Ballast 0 Trim Tab No				
PROPELLER Installation Strut PRD 0,434 Type Folding 3 or 4 blades PBW 0,122 PIPA 0,0042		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	587,7			657,1		
Time On Time	1,0209			1,0272		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	697,2	534,9	475,2	902,4	662,3	571,3
Time on Time	0,9681	1,2620	1,4205	0,7480	1,0192	1,1816

BOAT	
Name Baltas	Sail Nr LTU 1537
File Baltas LTU1537_int	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 11-07-2017		SG	
FFM	FF	1,486	SFFP 0,258
FAM	FA	1,058	SAFP 11,419
LCF from stem on CL / on sheer		6,709 / 6,967	
Maximum beam station from stem		7,585	
RM Measured		206,2kg·m	
RM Default		200,2kg·m	
Limit of positive stability / Stab.Index		122,2° / 126,9	
Freeboard at mast at 4,340		1,283	

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	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 15,530	E 5,600	MDT1 0,115	MW 0,212
IG 16,200	J 4,080	MDL1 0,212	GO 0,220
ISP 16,200	SFJ 0,260	MDT2 0,115	BD
BAS 1,550	SPL 4,350	MDL2 0,212	MWT 278,00
FSP 0,060	TPS	TL	MCG 8,580



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2018 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD	0,434	
Type Folding 3 or 4 blades	PBW	0,122	
Twin Screw No	PIPA	0,0042	
ST1 0,065	ST3 0,180	ST5 0,330	
ST2 0,180	ST4 0,110	EDL 2,100	

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COMMENTS	
8153 5,28	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MANSAL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
NS	0,210	1,09	1,95	3,41	4,51	49,62		07-07-2015	North Sails	Carbon	black wt tafetta					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G01	0,09	0,73	1,42	2,88	4,46	6,08	15,46	149%	45,87	Y			07-07-2015	North Sails	Carbon	black wt tafetta
G2	0,09	0,52	1,02	2,01	3,09	4,26	15,36	104%	31,88			R.Stropus	27-05-2013	North Sails	Carbon	Unknow
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
SNS	15,62	15,62	15,62	8,60	8,19	110,88		07-07-2015	North Sails	Nylon	white					
S	15,26	15,26	15,26	8,74	8,52	110,58	LBS #7	01-06-2008	Titanium	Nylon						
S1	15,49	15,49	15,49	7,93	7,52	101,30	LBS#7	29-04-2012		Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer Gvidas Misiunas LBS 7				
Date 11-07-2017				
Comment				
Id	Item	Weight	Distance	VCG Description
1	Engine			Volvo Penta 2000
Id	Item	Weight	Distance	Description

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank fuel		st steel	100,0				10,0
Id	Item	Weight	Distance	VCG	Description			
2	Battery	30,0	8,50	0,00				
1	Battery	30,0	8,50	0,00				



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2018

ORC Club Certificate Appendix

BOAT

Name **Baltas** Certificate Number **LT1537**
 Sail Nr **LTU 1537** Issued On **2018-05-11**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1023,7	852,3	753,6	700,6	679,1	668,9	665,6
52°	667,0	562,4	505,2	481,8	471,5	467,0	463,8
60°	630,4	533,7	488,5	469,5	458,9	453,5	449,1
75°	602,9	514,0	477,3	459,0	445,9	435,3	424,0
90°	608,0	516,0	474,5	454,9	441,5	427,0	403,4
110°	623,3	513,0	468,0	445,1	424,9	408,7	389,7
120°	640,4	525,8	474,0	449,1	427,3	405,7	372,9
135°	707,0	574,6	498,7	465,0	443,5	422,0	379,3
150°	837,2	664,1	561,9	497,4	466,2	445,7	405,6
Run VMG	966,7	766,8	648,6	569,2	516,7	478,3	436,7

Selected Courses							
Windward / Leeward	995,2	809,5	701,1	634,9	597,9	573,6	551,2
Circular Random	835,8	673,8	586,7	536,0	504,8	484,5	459,8
Ocean for PCS	1024,4	790,8	658,7	577,8	525,3	488,6	437,5
Non Spinnaker	886,5	709,7	613,3	556,4	521,2	498,3	470,3

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	43,6°	42,3°	42,1°	41,3°	40,6°	40,3°	40,8°
Beat VMG	3,52	4,22	4,78	5,14	5,30	5,38	5,41
52°	5,40	6,40	7,13	7,47	7,63	7,71	7,76
60°	5,71	6,75	7,37	7,67	7,84	7,94	8,02
75°	5,97	7,00	7,54	7,84	8,07	8,27	8,49
90°	5,92	6,98	7,59	7,91	8,15	8,43	8,92
110°	5,78	7,02	7,69	8,09	8,47	8,81	9,24
120°	5,62	6,85	7,59	8,02	8,43	8,87	9,66
135°	5,09	6,26	7,22	7,74	8,12	8,53	9,49
150°	4,30	5,42	6,41	7,24	7,72	8,08	8,88
Run VMG	3,72	4,69	5,55	6,32	6,97	7,53	8,24
Gybe Angles	144,5°	149,2°	150,8°	155,3°	169,7°	180,0°	180,0°