


BOAT Name EXTREME Sail Nr LTU 1620	GPH 608,2	HULL Length Overall 10,600m Maximum Beam 3,250m Displacement 4.615kg Draft 2,180m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 OD Designer Jeppessen Builder X Jachts Series 09-2005 Age 05-2008 Age Allowance 0,455% Offset File x35.od.off - 2015-01-29 16:31:16 Measurement by G. Misiunas - 03-05-2015		IMSL 9,495m VCGD 0,122m Sink 17,79kg/mm RL 9,040m VCGM 0,105m WS 23,22m² LSM0 9,314m Displacement/Length ratio 5,7117



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	592,2			659,0		
Time on Time	1,0132			1,0243		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	688,5	541,1	486,2	885,0	660,1	580,7
Time on Time	0,9804	1,2475	1,3884	0,7627	1,0225	1,1624

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	997,2	826,6	733,5	702,3	691,0	683,8	673,7
52°	657,7	557,3	514,7	501,1	496,1	493,9	486,2
60°	623,9	537,7	503,3	488,9	483,3	480,4	472,2
75°	598,5	524,7	495,0	476,5	464,0	457,8	452,6
90°	606,0	525,1	490,1	472,4	455,0	439,2	423,0
110°	613,8	517,6	481,3	456,2	435,5	418,9	397,0
120°	630,9	526,3	486,1	457,4	430,3	410,0	375,1
135°	697,0	567,1	506,3	476,1	448,3	421,2	366,2
150°	826,1	660,1	559,3	505,8	477,8	452,1	402,6
Run VMG	953,9	762,2	645,3	572,6	522,2	489,9	440,9

Selected Courses							
Windward / Leeward	975,5	794,4	689,4	637,5	606,6	586,8	557,3
Circular Random	829,2	673,1	590,5	543,3	514,4	494,9	467,6
Coastal / Long Distance	973,4	748,0	625,8	561,6	526,5	497,5	448,2
Non Spinnaker	888,6	715,0	621,8	567,8	534,6	512,7	484,0

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	42,2°	40,9°	39,4°	38,0°	37,7°	37,4°	37,6°
Beat VMG	3,61	4,35	4,91	5,13	5,21	5,26	5,34
52°	5,47	6,46	6,99	7,18	7,26	7,29	7,41
60°	5,77	6,70	7,15	7,36	7,45	7,49	7,62
75°	6,01	6,86	7,27	7,56	7,76	7,86	7,95
90°	5,94	6,86	7,34	7,62	7,91	8,20	8,51
110°	5,87	6,96	7,48	7,89	8,27	8,59	9,07
120°	5,71	6,84	7,41	7,87	8,37	8,78	9,60
135°	5,17	6,35	7,11	7,56	8,03	8,55	9,83
150°	4,36	5,45	6,44	7,12	7,54	7,96	8,94
Run VMG	3,77	4,72	5,58	6,29	6,89	7,35	8,17
Gybe Angles	141,5°	148,4°	150,8°	158,3°	180,0°	180,0°	180,0°

Certificate
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ORC Ref **lt00000916**
Issued On **2019-07-10**
VPP Ver. **2019 1.01**
Valid until **2019-12-31**

Crew Weight
Default **622kg**
Maximum **690kg**
Minimum* **518kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **641,4** **0,9355**
Non Spin OSN **623,3** **0,9626**

Sails Limitations

Headsails	Spinnakers
5	3

Class Division Length
CDL = **9,268**

Storm Sails Areas
Heavy Weather Jib **28,80**
Storm Jib (JL=9,50) **10,67**
Storm Trysail **11,42**

Owner
Aistis Kalanavicius
Ugnies 1
Noreikiskiu km
Kauno raj.

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

BOAT	
Name EXTREME	Sail Nr LTU 1620
File Extreme LTU1620 int	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Boom Inclining	LCFD	
Flotation date 24-05-2019	SG 1,0100	
FFM 1,319	FF 1,324	SFFP 0,075
FAM 0,965	FA 0,969	SAFP 10,275
W1 63,0	PD1 166,5	WD 4,520
W2 63,0	PD2 152,4	GSA 314,2
W3 63,0	PD3 166,5	RSA 20106,
W4 63,0	PD4 152,4	PLM 3460,0
LCF from stem on CL / on sheer		6,000 / 6,194
Maximum beam station from stem		7,300
RM Measured		106,7kg-m
RM Default		121,6kg-m
Limit of positive stability / Stab.Index		112,3° / 113,4
Freeboard at mast at 4,185		1,103



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RIG	
Forestay Tension Aft	Spreaders 2
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 13,450	E 4,850 MDT1 0,115 MW 0,174
IG 14,500	J 4,185 MDL1 0,175 GO 0,204
ISP 14,530	SFJ 0,000 MDT2 0,115 BD 0,220
BAS 1,745	SPL 4,170 MDL2 0,125 MWT 156,00
FSP 0,070	TPS 4,185 TL 1,300 MCG 4,600

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,420	
Type Folding 2 blades	PBW 0,128	
Twin Screw No	PIPA 0,0033	
ST1 0,042	ST3 0,180	ST5 0,255
ST2 0,180	ST4 0,112	EDL 2,390

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COMMENTS

MOVABLE BALLAST
N/A

CENTERBOARD
N/A

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,420	1,08	1,78	3,02	3,98	38,35	39,07	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14,60	14,60	14,60	8,00	7,58	96,31		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	15,05	13,63	14,34	5,36	7,05	68,09		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	Fly	Meas.Date	Material	Comment
0,17	0,74	1,32	2,31	3,35	4,42	14,35	33,11	Y		08-04-2019	Unknow	
0,13	0,67	1,22	2,29	3,34	4,41	14,45	32,83	Y		08-04-2019	Unknow	
0,11	0,59	1,10	2,16	3,28	4,42	13,39	29,47			30-05-2017	Carbon	

MEASUREMENT INVENTORY				
Measurer V.Stankus LTU 6				
Date 24-05-2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20C	
Id	Item	Weight	Description	

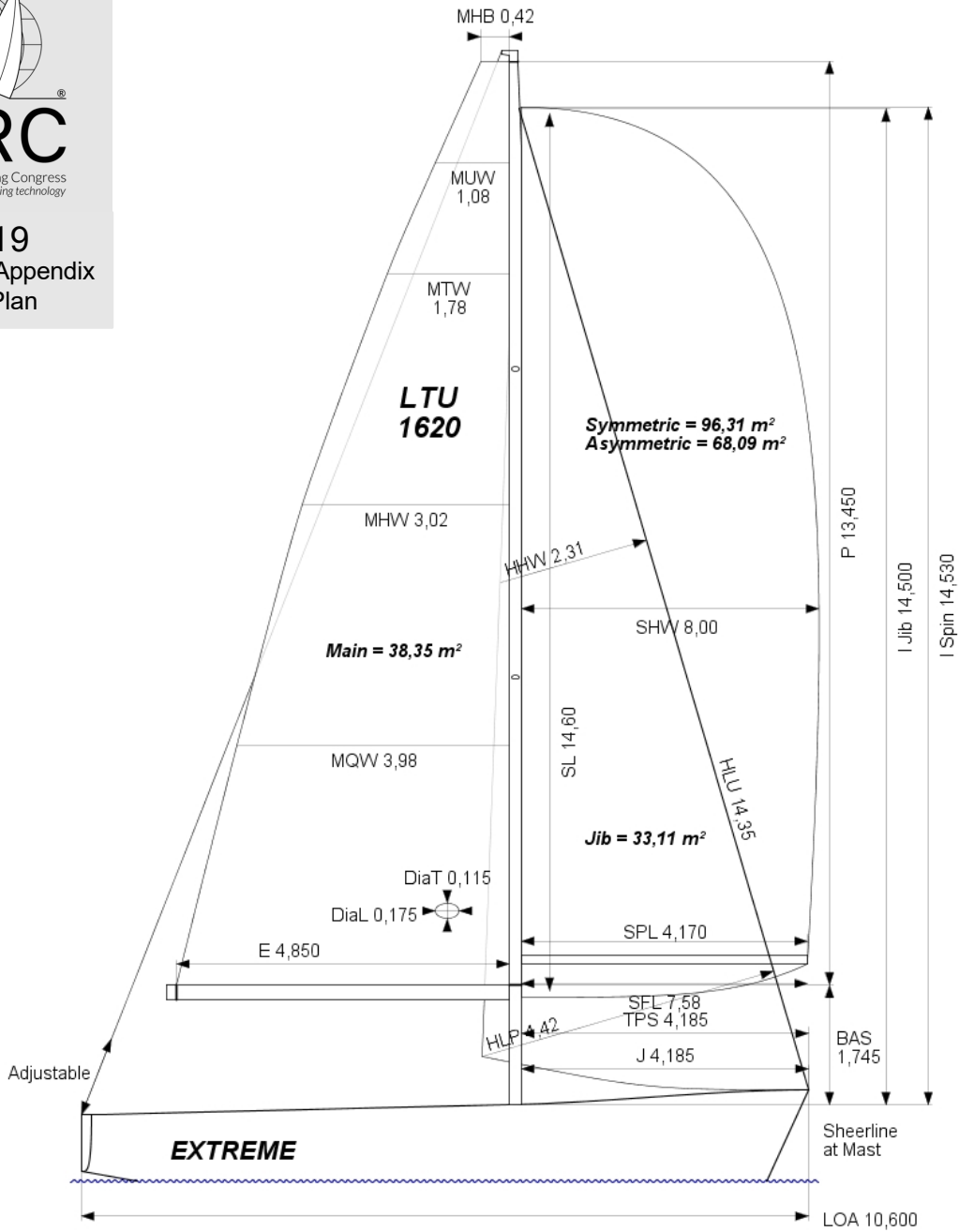
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank	Water	PVC	120,0	5,50		0,0
1	Tank	Fuel	st.stl	60,0	6,15		12,0
Id	Item	Weight	Distance	VCG Description			
1	Battery	25,0	5,00	0,00			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,42	1,08	1,78	3,02	3,98	38,35	R.Stropus	05-05-2019	One Sails	Unknown	

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6	0,17	0,74	1,32	2,31	3,35	4,42	14,35	106%	33,11	Y		SLO03	08-04-2019	One Sails	Unknown	Unknow
7	0,13	0,67	1,22	2,29	3,34	4,41	14,45	105%	32,83	Y		SLO03	08-04-2019	One Sails	Unknown	Unknow
5	0,11	0,59	1,10	2,16	3,28	4,42	13,39	106%	29,47			One Sails	30-05-2017	One Sails	Carbon	

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S8	14,60	14,60	14,60	8,00	7,58	96,32	SLO 03	10-05-2018		Unknown	
3	14,18	14,18	14,18	7,62	7,27	89,22		18-05-2017		Unknown	
4	13,80	13,80	13,80	5,58	6,83	67,05		18-05-2017		Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	15,05	13,63	14,34	5,36	7,05	68,10	asym		05-01-2019		Unknown	