

BOAT Name KETURI VEJAI Sail Nr LTU 2068	GPH 635.0	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,654kg Draft 2.001m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.239% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 MOD Designer JEPPESEN Builder X YACHTS Series 09/2005 Age 09/2009 Age Allowance 0.390% Offset File X35mk2DEF.off - 29/06/2017 18:21:58 Measurement by V.Stankus - 05/06/2014		IMSL 9.484m VCGD -0.090m Sink 17.57kg/mm RL 8.286m VCGM -0.103m WS 24.67m² LSMO 9.310m Displacement/Length ratio 5.7674



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	616.3			690.6		
Time On Time	0.9736			0.9774		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	737.2	560.3	492.5	960.4	695.2	595.4
Time on Time	0.9156	1.2048	1.3706	0.7028	0.9709	1.1336

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1095.7	903.2	793.4	733.6	711.2	701.0	688.9
52°	709.4	591.6	529.8	504.3	495.6	491.3	485.4
60°	664.2	557.9	511.5	490.0	479.8	474.7	469.5
75°	627.5	534.3	498.5	476.6	458.4	446.6	438.4
90°	629.1	534.3	494.3	472.8	454.6	434.6	407.6
110°	655.0	537.2	491.7	463.2	434.7	416.6	392.8
120°	676.5	551.7	498.7	470.0	442.1	415.1	374.2
135°	751.0	606.8	527.4	490.9	464.8	438.1	386.1
150°	893.7	702.2	591.0	523.7	490.7	466.2	417.5
Run VMG	1032.0	810.8	681.5	596.9	538.7	500.4	452.1

Selected Courses							
Windward / Leeward	1063.8	857.0	737.5	665.3	624.9	600.7	570.5
Circular Random	883.2	709.6	615.6	560.4	525.9	502.8	472.8
Ocean for PCS	1087.1	834.9	692.1	604.5	547.1	506.5	448.5
Non Spinnaker	932.7	744.6	641.8	581.0	543.0	517.9	485.9

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	43.8°	42.7°	42.6°	40.7°	40.2°	39.9°	39.6°
Beat VMG	3.29	3.99	4.54	4.91	5.06	5.14	5.23
52°	5.07	6.09	6.80	7.14	7.26	7.33	7.42
60°	5.42	6.45	7.04	7.35	7.50	7.58	7.67
75°	5.74	6.74	7.22	7.55	7.85	8.06	8.21
90°	5.72	6.74	7.28	7.61	7.92	8.28	8.83
110°	5.50	6.70	7.32	7.77	8.28	8.64	9.17
120°	5.32	6.52	7.22	7.66	8.14	8.67	9.62
135°	4.79	5.93	6.83	7.33	7.74	8.22	9.32
150°	4.03	5.13	6.09	6.87	7.34	7.72	8.62
Run VMG	3.49	4.44	5.28	6.03	6.68	7.19	7.96
Gybe Angles	145.6°	149.7°	151.8°	156.9°	174.9°	180.0°	180.0°

Certificate

Number **LT2068**
ORC Ref **lt00000333**
Issued On **13/10/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **725kg**
Default* **622kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **662.8 0.9053**
Non Spin OSN **642.6 0.9337**

Sails Limitations

Headsails	Spinnakers
5	3

Class Division Length

CDL = **8.885**

Storm Sails Areas

Heavy Weather Jib **28.66**
Storm Jib (JL=9.47) **10.61**
Storm Trysail **10.54**

Owner

BOAT	
Name KETURI VEJA	Sail Nr LTU 2068
File KeturiVejai LTU2068	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 07/07/2017		SG 1.0010	
FFM 1.295	FF 1.303	SFFP 0.075	
FAM 0.987	FA 0.992	SAFP 10.275	
W1 91.3	PD1 56.8	WD 3.870	
W2 91.3	PD2 59.0	GSA 10.0	
W3 91.3	PD3 62.0	RSA 10.0	
W4 91.3	PD4 61.3	PLM 2300.0	
LCF from stem on CL / on sheer		5.930 / 6.130	
Maximum beam station from stem		7.300	
RM Measured		119.1kg·m	
RM Default		119.8kg·m	
Limit of positive stability / Stab.Index		124.7° / 125.9	
Freeboard at mast at 4.185		1.099	

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 13.240	E 4.550	MDT1 0.125	MW 0.184
IG 14.500	J 4.185	MDL1 0.185	GO 0.204
ISP 14.530	SFJ	MDT2 0.122	BD 0.220
BAS 1.745	SPL 4.170	MDL2 0.140	MWT 156.00
FSP 0.068	TPS	TL 0.930	MCG 4.600



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IMS Measurement Certificate

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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 0.182	ST5 0.255	
ST2 0.178	ST4 0.112	EDL 2.390	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.240	1.00	1.73	2.92	3.78	35.86	36.55	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	Area (r)			
	13.88	13.88	13.88	5.89	6.87	70.39	72.14	SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

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
0.09	0.61	1.18	2.25	3.31	4.39	14.38	32.17	Y		07/07/2017	Unknow	Code 1
0.10	0.65	1.23	2.33	3.33	4.22	14.16	31.80	Y		10/05/2016	Unknow	Light
0.10	0.63	1.15	2.20	3.27	4.38	14.35	31.76			07/07/2017	Unknow	
0.10	0.50	0.93	1.77	2.73	3.87	14.21	26.44			07/07/2017	Unknow	

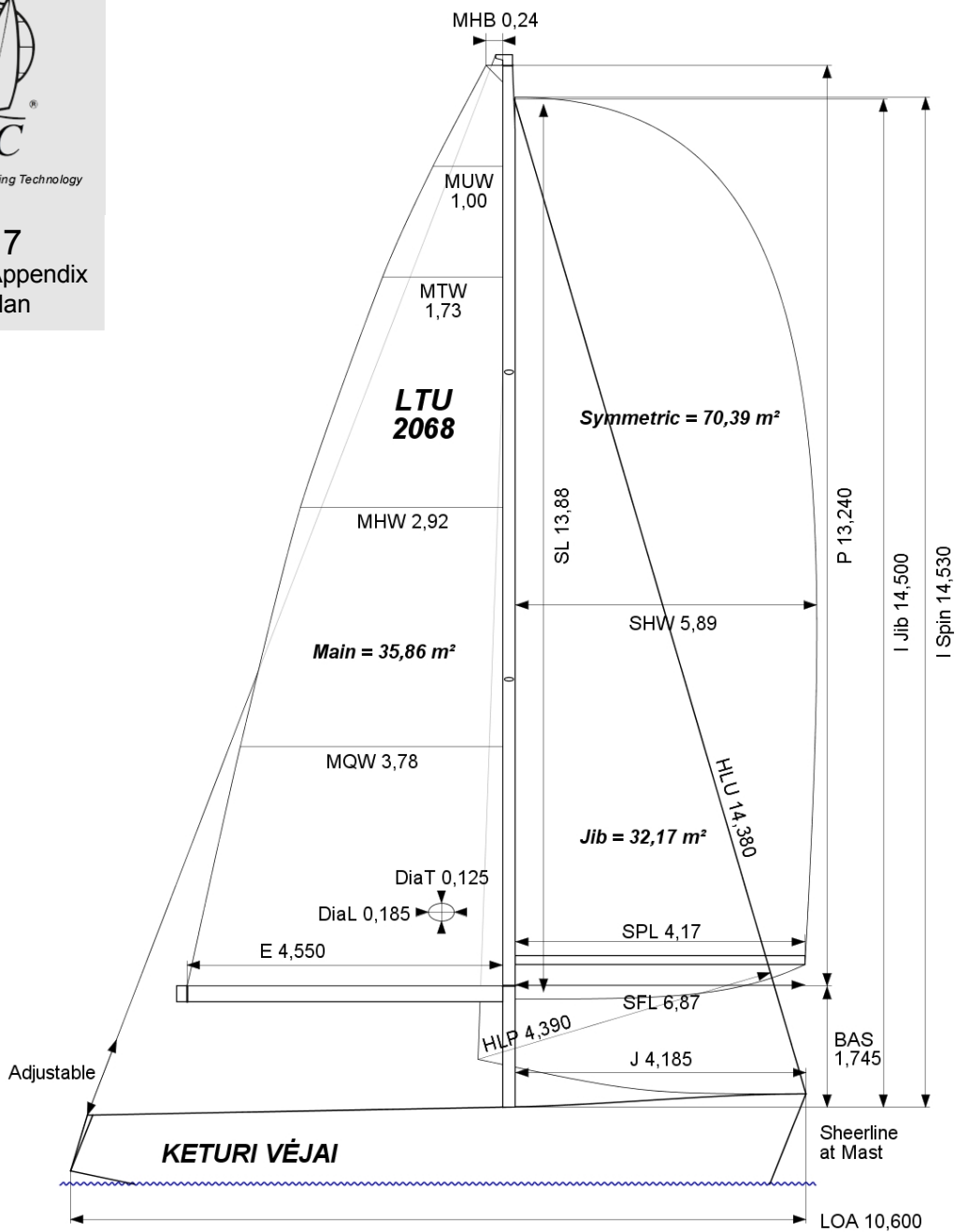
MEASUREMENT INVENTORY				
Measurer G. Misiunas LBS#7				
Date 07/07/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Yanmar	3YM20C	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
1	Tank fuel		st.stl	60.0	6.15	0-0 fuel
2	Tank H2O		pvc	120.0	5.52	0-0 Water
3	Tank gas		steel	2.0	9.45	0-0 LPG gas
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Battery	8.0	5.11	80 Ah gel - services		
2	Battery	18.4	4.83	55 Ah - engine		
-	Misc			Removed decorative wall panels		
-	Misc			Removed sofa backboards in saloon		



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.240	1.00	1.73	2.92	3.78	35.86		10/06/2015		Unknown						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.09	0.61	1.18	2.25	3.31	4.39	14.38	105%	32.17	Y		G.	07/07/2017		Unknown	Code 1
11	0.10	0.65	1.23	2.33	3.33	4.22	14.16	101%	31.80	Y		SLO03	10/05/2016	One Sails	Unknown	Light
4	0.10	0.63	1.15	2.20	3.27	4.38	14.35	105%	31.76			G.	07/07/2017		Unknown	
2	0.10	0.50	0.93	1.77	2.73	3.87	14.21	92%	26.44			G.	07/07/2017		Unknown	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
11	13.87	13.89	13.88	5.89	6.87	70.39	SLO03 Gale	10/05/2016	One Sails	Nylon	Heavy - Yellow					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				