

BOAT Name OLYMPIC Sail Nr EST 463	GPH 572.6	HULL Length Overall 12.350m Maximum Beam 3.646m Displacement 6,814kg Draft 2.337m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.046% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-41 mod Designer JEPPESEN Builder X YACHTS Series 01/2006 Age 06/2017 Age Allowance 0.390% Offset File X41_EST463a.off - 6/6/2017 8:56:26 Measurement by Tetsmann - 19/06/2018		IMSL 11.084m VCGD -0.152m Sink 22.89kg/mm RL 10.134m VCGM -0.167m WS 31.39m² LSMO 10.978m Displacement/Length ratio 5.1503



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Rating Office
EYU
Regati 1
11911, Tallinn
Estonia

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	556.3			622.3		
Time on Time	1.0786			1.0846		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	655.7	507.1	452.7	845.4	623.8	544.9
Time on Time	1.0295	1.3312	1.4909	0.7984	1.0821	1.2388

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	961.9	789.2	696.6	663.3	650.0	644.1	630.0
52°	630.7	525.5	479.9	465.2	459.6	456.9	449.3
60°	597.1	503.7	467.4	452.8	446.8	443.5	436.6
75°	572.8	490.0	458.6	440.6	427.9	421.1	415.0
90°	579.7	492.7	458.6	438.2	420.0	404.2	386.0
110°	588.1	485.0	447.0	423.5	408.9	395.6	373.5
120°	602.1	493.6	451.1	423.4	397.5	379.7	354.6
135°	663.5	534.9	471.1	441.2	414.2	387.4	333.8
150°	785.5	626.8	527.5	471.4	443.4	418.8	370.3
Run VMG	907.0	723.8	609.1	537.9	493.2	458.6	411.3

Certificate
Number **EST463**
ORC Ref **EST00000307**
Issued On **7/14/2018**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight
Default **786kg**
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring		
	ToD	ToT
Double H.GPH	576.9	1.0400
Double H.OSN	562.4	1.0669
Non Spin GPH	607.0	0.9885
Non Spin OSN	589.8	1.0173

Selected Courses							
	934.5	756.5	652.9	600.6	571.6	551.4	520.6
Windward / Leeward	934.5	756.5	652.9	600.6	571.6	551.4	520.6
Circular Random	788.2	636.2	555.4	509.0	480.4	461.1	434.3
Coastal / Long Distance	931.7	711.0	590.3	525.6	490.9	462.8	416.1
Non Spinnaker	850.0	680.0	587.9	534.0	500.6	478.4	449.1

Sails Limitations	
Headsails	Spinnakers
6	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	42.9°	41.6°	40.5°	39.0°	38.9°	38.7°	38.4°
Beat VMG	3.74	4.56	5.17	5.43	5.54	5.59	5.71
52°	5.71	6.85	7.50	7.74	7.83	7.88	8.01
60°	6.03	7.15	7.70	7.95	8.06	8.12	8.25
75°	6.29	7.35	7.85	8.17	8.41	8.55	8.67
90°	6.21	7.31	7.85	8.22	8.57	8.91	9.33
110°	6.12	7.42	8.05	8.50	8.80	9.10	9.64
120°	5.98	7.29	7.98	8.50	9.06	9.48	10.15
135°	5.43	6.73	7.64	8.16	8.69	9.29	10.79
150°	4.58	5.74	6.82	7.64	8.12	8.60	9.72
Run VMG	3.97	4.97	5.91	6.69	7.30	7.85	8.75
Gybe Angles	141.9°	147.3°	149.0°	155.7°	168.4°	180.0°	180.0°

Class Division Length
CDL = **10.610**

Storm Sails Areas	
Heavy Weather Jib	39.52
Storm Jib (JL=11.12)	14.64
Storm Trysail	14.83

BOAT	
Name OLYMPIC	Sail Nr EST 463
File Est0463	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 13/07/2018		SG 1.0260	
FFM 1.446	FF 1.447	SFFP 0.200	
FAM 1.102	FA 1.102	SAFP 11.995	
W1 101.0	PD1 487.7	WD 12.350	
W2 101.0	PD2 489.6	GSA 1.0	
W3 101.0	PD3 487.5	RSA 1.0	
W4 101.0	PD4 487.2	PLM 9000.0	
LCF from stem on CL / on sheer		6.898 / 7.111	
Maximum beam station from stem		8.432	
RM Measured		201.3kg·m	
RM Default		198.7kg·m	
Limit of positive stability / Stab.Index		127.8° / 131.2	
Freeboard at mast at 5.190		1.214	



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RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	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 15.550	E 5.450	MDT1 0.132	MW 0.250	
IG 17.030	J 4.910	MDL1 0.250	GO 0.273	
ISP 17.070	SFJ 0.280	MDT2 0.123	BD 0.270	
BAS 1.885	SPL 5.160	MDL2 0.192	MWT 205.00	
FSP 0.076	TPS	TL 0.230	MCG 5.730	

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.430	
Type Folding 2 blades	PBW 0.125	
Twin Screw No	PIPA 0.0032	
ST1 0.060	ST3	ST5 0.325
ST2	ST4 0.092	EDL 1.540

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.355	1.27	2.14	3.55	4.55	51.14	52.24	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	137.08		SL · (SFL + 4·SHW) / 6	
	17.20	17.20	17.20	9.56	9.58				
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
0.11	0.74	1.40	2.70	3.97	5.20	16.90	45.15			24/06/2017	Carbon	Light
0.11	0.75	1.43	2.69	3.95	5.22	16.85	45.06			28/06/2016	Carbon	Medium
0.13	0.58	1.10	2.20	3.38	4.66	15.20	34.52			30/07/2015	Carbon	Heavy
0.06					4.10	16.10	33.44			02/10/2016	Unknow	Staysail

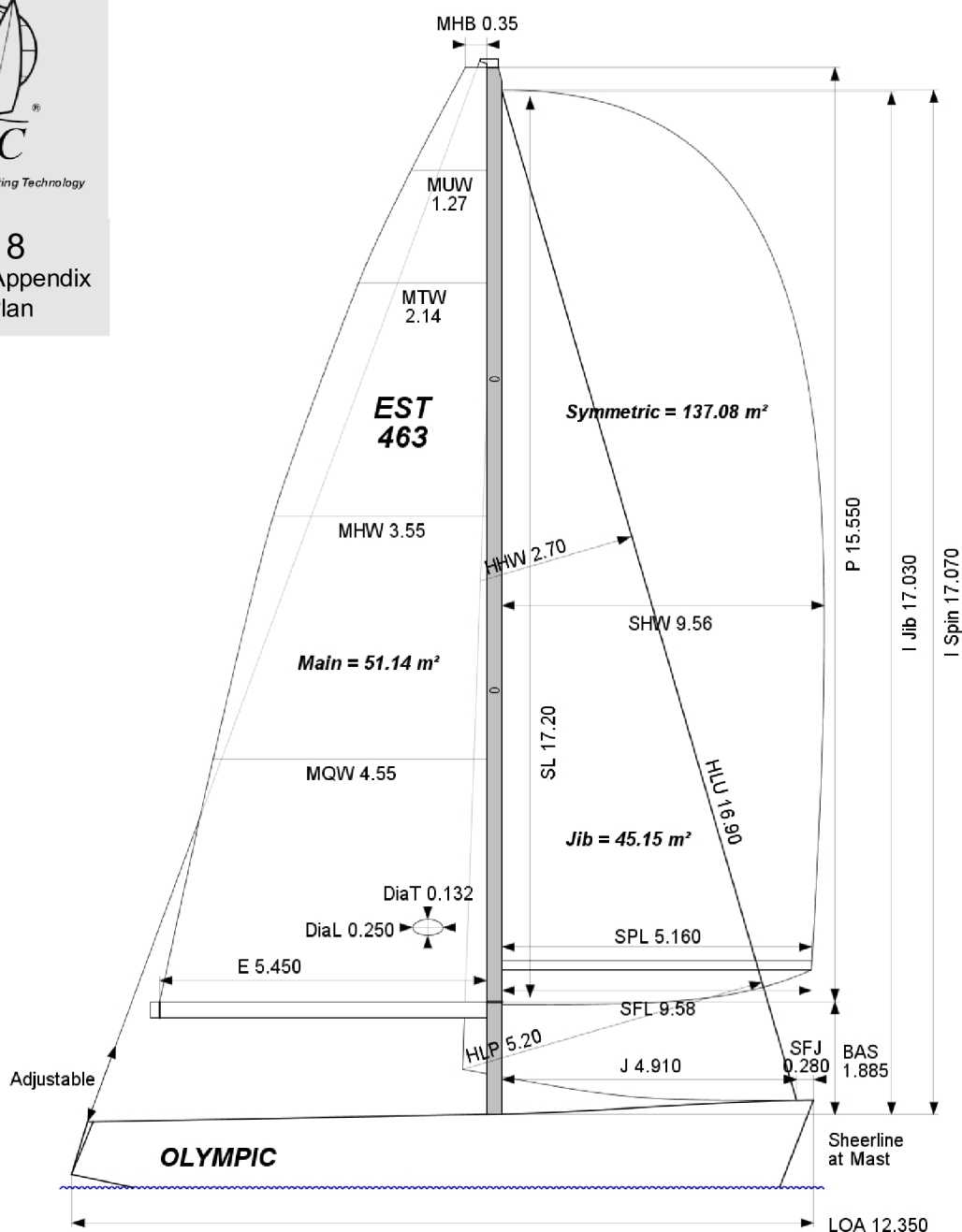
MEASUREMENT INVENTORY				
Measurer Karl-Hannes Tagu EST 7				
Date 26/05/2018				
Comment Pirita (Freeboards checked at Worlds 2018)				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Volvo-Penta	D2	
Id	Item	Weight Description		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank	Fuel	metal	90.0	5.90		40.0 Stb.
2	Tank	Water	plastic	180.0	6.00		0.0 Ports.
3	Tank	Waste	plastic	15.0	3.00		0.0
Id	Item	Weight	Distance	VCG Description			
1	Battery	5.20		Service batteries 2x115Ah			
2	Battery	8.00		Engine battery 60Ah			
-	Misc			Removed sofa backboards in saloon			
-	Misc			Removed decorative wall panels			
-	Misc			Removed hammock in back cabin			



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
9b	0.355	1.27	2.14	3.55	4.55	51.14		19/06/2018	NS	Carbon	2011 (P15,55;E5,45)					
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
4a	0.11	0.74	1.40	2.70	3.97	5.20	16.90	106%	45.15			EST 1	24/06/2017	NS	Carbon	Light
5	0.11	0.75	1.43	2.69	3.95	5.22	16.85	106%	45.06			EST 1	28/06/2016	NS	Carbon	Medium
3	0.13	0.58	1.10	2.20	3.38	4.66	15.20	95%	34.52			EST 1	30/07/2015	NS	Carbon	Heavy
6	0.06					4.10	16.10	84%	33.44			Hemamali	02/10/2016	NS	Unknow	Staysail
SYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
12	17.20	17.20	17.20	9.56	9.58	137.08	Hemamali	10/03/2018	NS	Unknown	S1,5_2018					
11	17.02	17.02	17.02	9.48	9.84	135.48	SLO 03	26/06/2017	OneSails	Unknown	S1_2017					
10	17.02	17.02	17.02	9.61	9.32	135.48	SLO 03	26/06/2017	OneSails	Unknown	S2_2017					
3	17.55	17.55	17.55	9.26	8.82	134.14		19/06/2018	NS	Unknown	S4_2016					
9	16.95	16.95	16.95	6.49	8.54	97.46			NS	Unknown	Reacher					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				