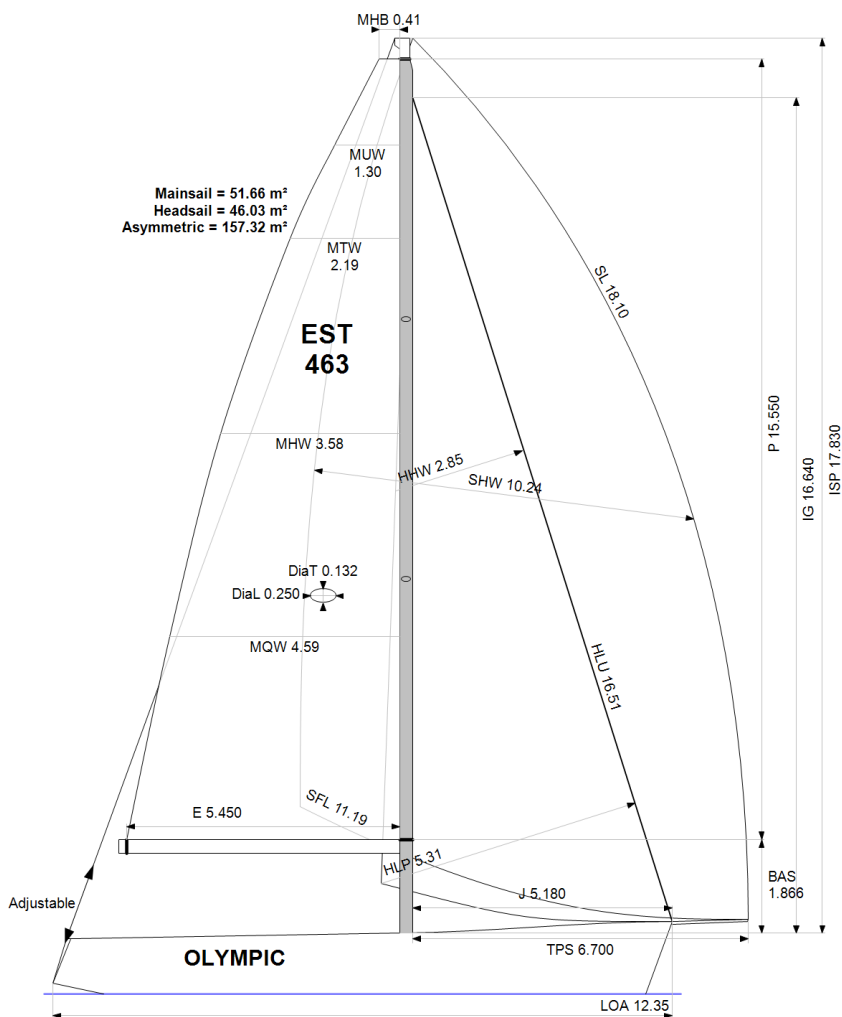


GPH = 569.9 **CDL = 10.614**



Mainsail = 51.66 m²
Headsail = 46.03 m²
Asymmetric = 157.32 m²

BOAT

Class **X-41 mod**
Designer **JEPPESEN**
Builder **X YACHTS**
Age Date **06/2017**
Series Date **01/2006**
Offset File **X41-EST463.off**

HULL

Length Overall **12.350 m**
Maximum Beam **3.646 m**
Draft **2.343 m**
Displacement **6,928 kg**
DLR **5.1667**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.027%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.430m**

CREW

Maximum weight **850 kg**
Minimum weight **638 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	51.66	52.83
Headsail Luffed	46.03	46.03
Headsail Flying		

Symmetric
Asymmetric **157.32** **157.32**
** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

Headsails **6**
Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

STABILITY

Righting Moment **205.7 kg·m**
Stability Index **132.9**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.

Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.1°	41.6°	40.5°	39.0°	39.0°	38.4°	38.3°
Beat VMG	3.74	4.55	5.15	5.42	5.54	5.60	5.72
52°	5.72	6.84	7.49	7.74	7.83	7.88	8.02
60°	6.07	7.14	7.69	7.95	8.06	8.12	8.26
75°	6.36	7.36	7.84	8.16	8.41	8.56	8.69
90°	6.31	7.44	7.87	8.21	8.56	8.90	9.34
110°	6.35	7.57	8.15	8.57	8.87	9.16	9.74
120°	6.21	7.46	8.08	8.62	9.18	9.58	10.30
135°	5.55	6.91	7.75	8.26	8.82	9.45	11.08
150°	4.68	5.86	6.94	7.69	8.06	8.45	9.51
Run VMG	4.05	5.08	6.01	6.66	7.01	7.52	8.33
Gybe Angles	143.5°	146.0°	148.5°	151.0°	152.0°	176.0°	177.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	963.6	790.6	698.5	664.1	650.1	642.3	628.9
52°	629.0	526.2	480.6	465.4	459.5	456.6	448.8
60°	593.1	504.0	467.9	453.0	446.7	443.2	436.0
75°	565.7	489.2	459.0	441.0	428.0	420.7	414.1
90°	570.8	484.0	457.5	438.6	420.4	404.4	385.4
110°	566.6	475.7	441.8	420.0	405.9	393.1	369.4
120°	579.8	482.4	445.6	417.7	392.2	375.7	349.5
135°	649.0	521.0	464.4	435.8	408.1	381.1	325.0
150°	769.6	614.1	518.6	468.4	446.6	425.8	378.5
Run VMG	888.7	709.1	598.8	540.4	513.5	478.7	432.2
Selected Courses							
Windward / Leeward	926.1	749.9	648.6	602.2	581.8	560.5	530.5
All purpose	710.7	584.9	522.3	492.2	475.1	460.7	436.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	630.6	0.9514
All purpose	509.0	1.1787

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	554.7	1.0817
Triple Number Coastal/Long Distance Low	647.8	0.9262
Triple Number Coastal/Long Distance Medium	505.7	1.1865
Triple Number Coastal/Long Distance High	455.1	1.3184
Triple Number Windward/Leeward Low	838.0	0.7160
Triple Number Windward/Leeward Medium	624.9	0.9602
Triple Number Windward/Leeward High	554.6	1.0819

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	922.4	704.1	586.7	525.0	493.1	464.6	417.4



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	X-41 mod	LOA	12.350	VCGD	-0.184
Measurement	30/07/2019	Max. Beam	3.646	VCGM	-0.204
Measurer		Draft	2.343	RM Measured (kg·m)	205.7
HIN		Displacement	6.928	RM Default (kg·m)	201.1
Plan review		Wetted area	31.57	Limit of positive stability(°)	129.2
Hull construction	Cored	IMS L	11.134	Stability Index	132.9
Carbon Rudder	No	LSM0	11.027		
Light stanchions		Acc. length	11.850		
Trim tab	No	Sink (kg/mm)	23.02		

PROPELLER

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

RIG

Forestay tension	Aft	P	15.550	E	5.450
Inner stay	None Fitted	IG	16.640	J	5.180
Carbon mast	Yes	ISP	17.830	BAS	1.866
Headsail furler	No	MDT1	0.132	FSD	0.038
Mainsail furler	No	MDL1	0.250	SFJ	
Articulated bowsprit	No	MDT2	0.123	SPL	5.270
Non-circular rigging	No	MDL2	0.192	TPS	6.700
Fiber rigging	No	TL	0.230	BD	0.270
Runners/Checkstays	0	MW	0.250	MWT	195.00
Spreaders	2	GO	0.273	MCG	5.120

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.200	SAFP	11.995	W1	99.6	PD1	519.8	WD	13.600
Flotation Date	19/07/2020	FFM	1.433	FAM	1.097	W2	99.6	PD2	517.5	PLM	9000.00
Measurer		FF	1.443	FA	1.103	W3	99.6	PD3	519.4	GSA	1.0
Comment		LCFcl	6.903	LCFsh	7.115	W4	99.6	PD4	517.5	RSA	1.0
		SG	1.0000	HBI	1.208						

MEASUREMENT INVENTORY

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	Fuel	Metal	90.0	5.90		40.0	Stb.
2	Water	Plastic	180.0	6.00		0.0	Ports.
3	Water	Plastic	15.0	3.00		0.0	
Id	Item	Description	Weight	LCG	VCG		
	Anchor (d)						
1	Battery	Service batteries 2x115Ah		5.20			
2	Battery	Engine battery 60Ah		8.00			
-	Miscellaneous	Removed sofa backboards in saloon					
-	Miscellaneous	Removed decorative wall panels					
-	Miscellaneous	Removed hammock in back cabin					
	Miscellaneous						



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
2a	0.41	1.30	2.19	3.58	4.59	51.66		20/07/2021	North Sails	Unknown	2021
1a	0.36	1.26	2.10	3.51	4.55	50.85		19/07/2020	Millenium	Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
17b	0.08	0.87	1.60	2.85	4.05	5.31	16.51	No	No		46.03		10/06/2021	North	Unknown	Medium2020
16b	0.13	0.78	1.48	2.81	4.11	5.40	16.50	Yes	No		45.86		20/07/2021	NS	Unknown	Light2019
5	0.11	0.75	1.43	2.69	3.95	5.22	16.85	No	No		45.06		28/06/2016	NS	Carbon	Medium
18	0.12	0.72	1.36	2.65	3.99	5.32	16.19	Yes	No		43.32		09/07/2021	North	Unknown	Medium/Heavy 2021
3	0.13	0.58	1.10	2.20	3.38	4.66	15.20	No	No		34.52		30/07/2015	NS	Carbon	Heavy
6	0.06					4.10	16.10	No	No		33.44		02/10/2016	NS	Unknown	Staysail

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
1	20.19	16.01	18.10	10.24	11.19	92%	157.32		29/06/2021	One Sails	Unknown	
3	19.84	16.80	18.32	10.08	11.19	90%	157.28		29/06/2021	One Sails	Unknown	
2	20.20	15.94	18.07	10.25	11.15	92%	157.06		29/06/2021	One Sails	Unknown	