

BOAT Name Technicol Sail Nr EST 615	GPH 565.1	HULL Length Overall 12.350m Maximum Beam 3.646m Displacement 7,068kg Draft 2.320m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.011% 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 04/2010 Age Allowance 0.422% Offset File EST615.off - 13/05/2019 22:11:32 Measurement by - 27/05/2019		IMSL 11.140m VCGD -0.157m Sink 23.10kg/mm RL 10.137m VCGM -0.179m WS 32.62m² LSM0 11.024m Displacement/Length ratio 5.2757



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	551.1			617.1		
Time on Time	1.0886			1.0938		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	640.7	502.6	449.3	833.2	619.6	541.7
Time on Time	1.0536	1.3430	1.5024	0.8101	1.0895	1.2460

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	952.7	781.0	695.1	663.2	649.4	639.2	627.5
52°	617.7	515.8	478.8	465.3	459.6	456.7	448.4
60°	577.5	491.8	463.3	452.8	446.9	443.7	435.4
75°	541.6	474.9	450.0	435.6	427.4	421.5	414.8
90°	539.8	475.2	449.9	431.2	414.2	400.7	386.3
110°	566.5	475.3	441.6	420.5	406.1	390.1	357.0
120°	580.2	482.3	445.4	417.7	392.6	376.7	348.7
135°	651.9	522.1	464.6	436.0	408.4	381.5	325.7
150°	770.4	614.4	519.2	467.5	440.1	414.9	364.5
Run VMG	889.6	709.5	599.5	532.7	489.2	455.7	407.8

Certificate
Number **EST615**
ORC Ref **EST00000603**
Issued On **29/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **791kg**
Maximum **890kg**
Minimum* **668kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	575.2	1.0431
Double H.OSN	563.1	1.0655
Non Spin GPH	603.8	0.9937
Non Spin OSN	587.6	1.0211

Selected Courses							
Windward / Leeward	921.1	745.3	647.3	598.0	569.3	547.5	517.7
Circular Random	772.5	626.0	548.6	504.2	476.5	457.4	430.0
Coastal / Long Distance	918.0	699.4	584.7	522.7	488.2	459.8	413.3
Non Spinnaker	843.4	675.7	585.0	531.9	498.9	476.8	447.9

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	43.6°	42.2°	40.4°	38.9°	38.3°	38.2°	38.5°
Beat VMG	3.78	4.61	5.18	5.43	5.54	5.63	5.74
52°	5.83	6.98	7.52	7.74	7.83	7.88	8.03
60°	6.23	7.32	7.77	7.95	8.06	8.11	8.27
75°	6.65	7.58	8.00	8.26	8.42	8.54	8.68
90°	6.67	7.58	8.00	8.35	8.69	8.98	9.32
110°	6.35	7.57	8.15	8.56	8.87	9.23	10.08
120°	6.20	7.46	8.08	8.62	9.17	9.56	10.32
135°	5.52	6.89	7.75	8.26	8.81	9.44	11.05
150°	4.67	5.86	6.93	7.70	8.18	8.68	9.88
Run VMG	4.05	5.07	6.00	6.76	7.36	7.90	8.83
Gybe Angles	143.9°	146.8°	149.7°	156.0°	169.9°	180.0°	180.0°

Class Division Length
CDL = **10.640**

Storm Sails Areas
Heavy Weather Jib **39.53**
Storm Jib (JL=11.13) **14.64**
Storm Trysail **15.13**

Owner

BOAT			
Name	Technicol	Sail Nr	EST 615
File	Est0615	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 18/04/2019			SG 1.0030		
FFM	1.437	FF	1.449	SFFP	0.200
FAM	1.090	FA	1.095	SAFP	11.995
W1	110.0	PD1	569.1	WD	13.220
W2	110.0	PD2	546.1	GSA	1.0
W3	110.0	PD3	571.1	RSA	1.0
W4	110.0	PD4	568.7	PLM	9000.0
LCF from stem on CL / on sheer				6.923 / 7.135	
Maximum beam station from stem				8.432	
RM Measured				203.2kg-m	
RM Default				205.9kg-m	
Limit of positive stability / Stab.Index				128.2° / 132.1	
Freeboard at mast at 5.210				1.207	



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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	15.800	E	5.470	MDT1	0.131
IG	17.035	J	5.210	MDL1	0.240
ISP	18.200	SFJ		MDT2	0.115
BAS	1.865	SPL	5.670	MDL2	0.190
FSP	0.076	TPS	6.480	MWT	187.00
		TL	0.550	MCG	5.700

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.430
Type	Folding 2 blades	PBW	0.125
Twin Screw	No	PIPA	0.0036
ST1	0.060	ST3	0.180
ST2	0.180	ST4	0.100
		ST5	0.325
		EDL	1.520

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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	
	0.380	1.31	2.17	3.59	4.60	52.54	53.70	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17.80	17.80	17.80	9.99	10.48	149.64	SL · (SFL + 4·SHW) / 6		
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	19.20	17.52	18.36	10.27	11.13	159.76	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.11	0.83	1.58	3.07	4.49	5.80	18.39	55.35		Y	20/05/2019	Unknow	
0.19	0.96	1.75	2.99	4.21	5.40	16.78	48.86			27/05/2019	Unknow	Jib 1
0.18	0.86	1.60	2.89	4.10	5.40	16.62	46.99			27/05/2019	Unknow	Jib 2
0.12	0.69	1.32	2.58	3.90	5.35	16.71	44.03			08/05/2017	Unknow	Jib 3
0.13	0.63	1.17	2.21	3.18	4.01	14.81	31.70			08/05/2017	Unknow	Staysail

MEASUREMENT INVENTORY				
Measurer				
Date 18/04/2019				
Comment Crack Boats				
<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>	
A	Engine	VOLVO PENTA	D2-408	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

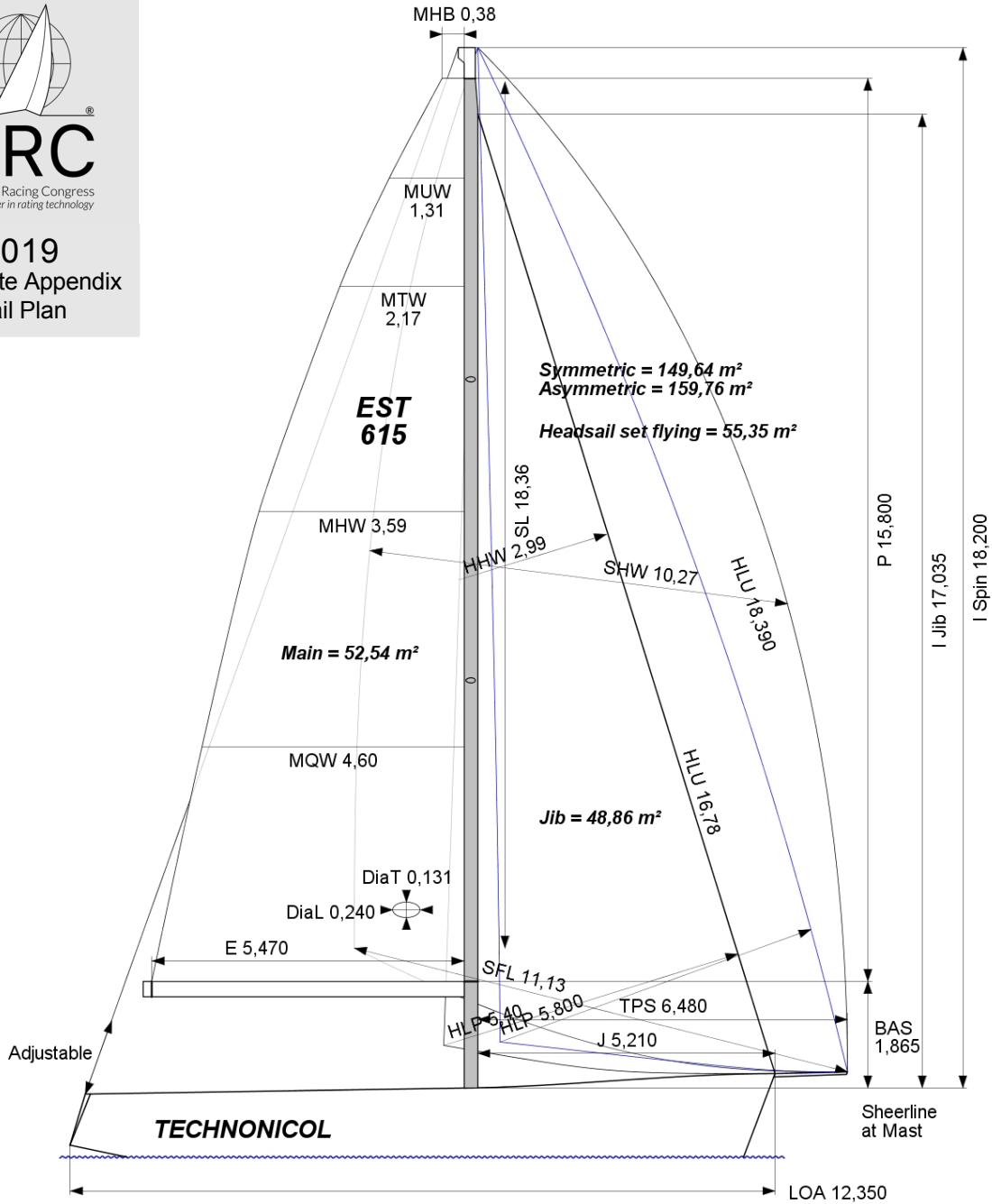
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
C	Tank	WASTE	Plastic	40.0	4.15	0.00	0-0
B	Tank	FUEL	Steel	90.0	5.50	0.00	30-0
A	Tank	WATER	Plastic	210.0	5.20	0.00	0-0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>		
C	Battery	0.0	7.50	0.00	30 Ah Engine		
B	Battery	0.0	4.50	0.00	180 Ah Sevice		
-	Misc				Removed closet in front cabin		
-	Misc				Removed decorative wall panels		
-	Misc				Removed sofa backboards in saloon		
-	Misc				Rem.hammock, closet doors 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					
C	0.38	1.31	2.17	3.59	4.60	52.55		10/05/2018	OneSails	Unknown	P15,80;E5,47					
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G	0.11	0.83	1.58	3.07	4.49	5.80	18.39	111%	55.35		Y		20/05/2019	OneSails	Unknown	Unknown
C	0.19	0.96	1.75	2.99	4.21	5.40	16.78	104%	48.86				27/05/2019	OneSails	Unknown	Jib 1
D	0.18	0.86	1.60	2.89	4.10	5.40	16.62	104%	46.99				27/05/2019	OneSails	Unknown	Jib 2
E	0.12	0.69	1.32	2.58	3.90	5.35	16.71	103%	44.03				08/05/2017	OneSails	Unknown	Jib 3
F	0.13	0.63	1.17	2.21	3.18	4.01	14.81	77%	31.70				08/05/2017	OneSails	Unknown	Staysail
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
E	17.80	17.80	17.80	9.99	10.48	149.64		17/04/2019	One Sails	Nylon						
F	17.84	17.84	17.84	9.84	10.86	149.33		17/04/2019	One Sails	Nylon						
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
B	19.20	17.52	18.36	10.27	11.13	159.77	asym		17/04/2019	OneSails	Unknown	A 1				
C	18.68	17.35	18.02	5.90	7.83	94.37	asym		20/05/2019	OneSails	Unknown	A 0				