

BOAT Name IN THEORY Sail Nr USA 61183	GPH 599.0	HULL Length Overall 10.876m Maximum Beam 3.658m Displacement 4,999kg Draft 2.163m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.185% Hull Construction Cored Carbon Rudder Crew Arm Extension IMSL 10.170m VCGD -0.121m Sink 19.55kg/mm RL 9.396m VCGM -0.110m WS 25.45m² LSM0 9.847m Displacement/Length ratio 5.2357
GENERAL Class JPK 1080 Designer Jacques Valer Builder JPK Composites Series 01/2013 Age 01/2017 Age Allowance 0.228% Offset File JPK1080A.OFF - 16/06/2018 10:15:42 Measurement by - 23/04/2019		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	581.1			650.0		
Time on Time	1.0325			1.0385		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	695.2	529.3	461.8	907.0	654.3	558.8
Time on Time	0.9710	1.2753	1.4617	0.7442	1.0316	1.2079

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1058.9	868.2	757.0	688.9	661.7	650.6	641.5
52°	687.9	575.5	515.2	487.6	474.5	468.9	465.3
60°	647.6	546.9	499.0	476.9	462.6	454.5	448.8
75°	598.0	509.9	476.0	458.0	447.3	433.9	417.9
90°	575.8	496.8	465.4	441.2	420.9	408.3	391.6
110°	600.0	505.2	466.6	438.1	412.8	391.3	348.3
120°	624.8	514.9	471.4	441.6	411.7	385.0	346.3
135°	692.0	556.5	491.0	460.0	431.2	402.5	343.0
150°	819.2	654.0	549.4	490.9	462.3	436.1	383.5
Run VMG	946.0	755.2	634.4	559.2	512.3	477.6	427.9

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Number **US6592**
ORC Ref **03410000PP4**
Issued On **03/09/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 673kg
Maximum **673kg**
Minimum* **505kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	646.2	0.9285
Non Spin OSN	624.3	0.9610

Selected Courses							
Windward / Leeward	1002.4	811.7	695.7	624.0	587.0	564.1	534.7
Circular Random	832.3	669.5	581.0	528.4	494.9	471.9	440.8
Coastal / Long Distance	996.8	760.0	626.3	546.1	504.4	472.4	422.4
Non Spinnaker	916.4	728.9	625.5	563.6	524.5	498.6	465.8

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	43.3°	41.6°	40.9°	39.0°	37.9°	37.5°	37.1°
Beat VMG	3.40	4.15	4.76	5.23	5.44	5.53	5.61
52°	5.23	6.26	6.99	7.38	7.59	7.68	7.74
60°	5.56	6.58	7.21	7.55	7.78	7.92	8.02
75°	6.02	7.06	7.56	7.86	8.05	8.30	8.62
90°	6.25	7.25	7.74	8.16	8.55	8.82	9.19
110°	6.00	7.13	7.72	8.22	8.72	9.20	10.34
120°	5.76	6.99	7.64	8.15	8.74	9.35	10.40
135°	5.20	6.47	7.33	7.83	8.35	8.95	10.50
150°	4.39	5.50	6.55	7.33	7.79	8.25	9.39
Run VMG	3.81	4.77	5.67	6.44	7.03	7.54	8.41
Gybe Angles	140.9°	148.0°	149.0°	156.0°	172.0°	180.0°	180.0°

Class Division Length

CDL = 9.778

Storm Sails Areas

Heavy Weather Jib **24.29**
Storm Jib (JL=8.72) **9.00**
Storm Trysail **11.06**

Owner

BOAT	Name IN THEORY	Sail Nr USA 61183
	File US6592	Data in meters/kilograms

RIG	Forestay Tension Aft	Spreaders 2					
	Inner Stay None Fitted	Runners/Checkstays 0					
	Carbon Mast	Jib Furler					
	Fiber Rigging	Main Furler					
	Non-Circular Rigging No						
	Articulated Bowsprit						
P	13.789	E	4.580	MDT1	0.111	MW	0.177
IG	13.381	J	4.330	MDL1	0.177	GO	0.187
ISP	14.651	SFJ	0.000	MDT2	0.100	BD	0.157
BAS	0.705	SPL	4.910	MDL2	0.146	MWT	
FSD	0.033	TPS	4.944	TL	0.995	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 23/04/2019		SG 1.0080	
FFM	1.232	FF	1.238
FAM	0.580	FA	0.583
SFFP	0.227	SAFP	10.823
W1	85.6	PD1	609.4
W2	85.6	PD2	609.4
W3	85.6	PD3	609.4
W4	85.6	PD4	609.4
WD	12.590	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		6.088 / 6.338	
Maximum beam station from stem		7.700	
RM Measured		139.3kg-m	
RM Default		120.6kg-m	
Limit of positive stability / Stab.Index		122.6° / 120.5	
Freeboard at mast at 4.330		1.122	



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MIZZEN RIG AND SAILS
N/A

PROPELLER					
Installation Shaft non exposed	PRD	0.375			
Type Folding 2 blades	PBW	0.095			
Twin Screw No	PIPA	0.0028			
PSA	17.500	PHD	0.053	ESL	0.975
PSD	0.024	PHL	0.137		

Certificate
Number US6592
ORC Ref 03410000PP4
Issued On 03/09/2020
VPP Ver. 2020 1.02
Valid until 31/12/2020

COMMENTS

MOVABLE BALLAST
N/A

CENTERBOARD
N/A

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.23	1.11	1.74	2.79	3.69	36.84	37.45	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	Area	Area (r)	Formula	
	16.07	16.07	16.07	8.30	7.75	109.68		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Area (r)	Formula	
	16.70	14.64	15.67	8.05	8.47	106.22		AS · (SFL + 4·SHW) / 6	

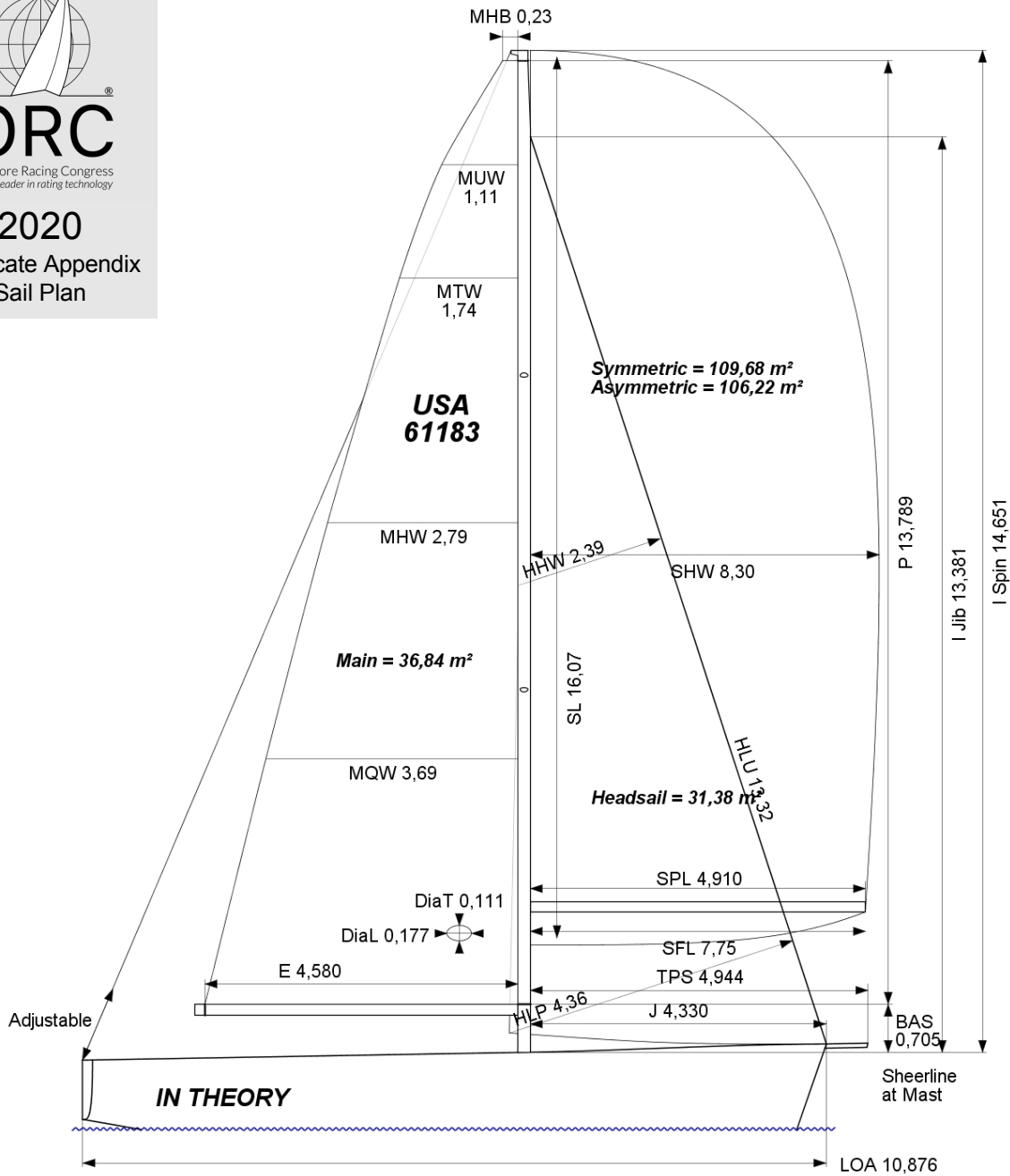
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.25	0.86	1.41	2.39	3.38	4.36	13.32	31.38		No			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
m-1	0.23	1.11	1.74	2.79	3.69	36.85			North							
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1161206	0.25	0.86	1.41	2.39	3.38	4.36	13.32	101%	31.38	No				North		
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
11612030	16.07	16.07	16.07	8.30	7.75	109.68			North							
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A1.5	16.70	14.64	15.67	8.05	8.47	106.22	asym		29/10/2019	NORTH	Unknown					
MW-3	16.50	15.70	16.10	7.55	9.06	105.35	asy84			North	Unknown					
C0	14.52	12.93	13.73	5.32	7.06	64.83	asy76		03/09/2020		Unknown					