

BOAT Name MARISOL Sail Nr USA 56443	GPH 556.8	HULL Length Overall 12.406m Maximum Beam 3.474m Displacement 5,573kg Draft 2.097m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 11.466m VCGD 0.101m Sink 21.51kg/mm RL 10.421m VCGM -0.048m WS 28.52m² LSM0 11.319m Displacement/Length ratio 3.8430
GENERAL Class J-124 Designer Johnstone Builder Pearson Series 10/2005 Age 12/2005 Age Allowance 0.455% Offset File US41984.off - 09/08/2018 16:03:44 Measurement by -		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	543.6			613.2		
Time on Time	1.1038			1.1008		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	631.6	494.7	443.0	825.3	612.3	541.0
Time on Time	1.0687	1.3645	1.5237	0.8179	1.1024	1.2476

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	938.3	764.3	683.5	654.1	640.2	635.3	624.7
52°	607.9	505.6	471.8	461.3	456.0	453.0	448.3
60°	566.6	482.6	459.4	448.9	443.1	439.8	435.4
75°	529.0	465.9	444.2	432.2	422.6	415.9	409.7
90°	525.0	464.4	440.8	421.9	405.5	393.9	379.6
110°	558.5	467.5	436.2	418.3	396.6	372.4	344.6
120°	570.7	471.8	436.1	407.3	387.4	370.1	332.1
135°	648.7	507.3	453.0	422.3	390.0	358.5	306.5
150°	772.1	612.1	508.7	455.7	432.6	406.1	343.6
Run VMG	891.6	706.8	587.4	526.3	499.5	469.0	396.8

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Number **US6457**
ORC Ref **US00000522**
Issued On **25/11/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 821kg
Maximum **817kg**
Minimum* **613kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	571.2	1.0503
Double H.OSN	560.6	1.0703
Non Spin GPH	595.9	1.0069
Non Spin OSN	581.6	1.0316

Selected Courses							
Windward / Leeward	914.9	735.6	635.5	590.2	569.9	552.1	510.7
Circular Random	762.1	616.9	540.4	496.8	469.8	450.8	421.5
Coastal / Long Distance	912.6	690.0	574.2	514.2	483.4	455.9	404.3
Non Spinnaker	832.2	666.8	577.4	525.0	492.3	470.5	441.8

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	43.2°	42.1°	40.3°	38.8°	38.2°	38.0°	38.1°
Beat VMG	3.84	4.71	5.27	5.50	5.62	5.67	5.76
52°	5.92	7.12	7.63	7.80	7.89	7.95	8.03
60°	6.35	7.46	7.84	8.02	8.12	8.19	8.27
75°	6.81	7.73	8.10	8.33	8.52	8.66	8.79
90°	6.86	7.75	8.17	8.53	8.88	9.14	9.48
110°	6.45	7.70	8.25	8.61	9.08	9.67	10.45
120°	6.31	7.63	8.26	8.84	9.29	9.73	10.84
135°	5.55	7.10	7.95	8.53	9.23	10.04	11.75
150°	4.66	5.88	7.08	7.90	8.32	8.86	10.48
Run VMG	4.04	5.09	6.13	6.84	7.21	7.68	9.07
Gybe Angles	142.7°	145.4°	146.6°	151.5°	150.0°	146.8°	143.2°

Class Division Length
CDL = **10.944**

Storm Sails Areas
Heavy Weather Jib **29.98**
Storm Jib (JL=9.69) **11.11**
Storm Trysail **13.38**

Owner

BOAT		
Name MARISOL	Sail Nr USA 56443	
File US6457	Data in meters/kilograms	

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 14.753	E 5.182	MDT1 0.119	MW 0.220	
IG 14.764	J 4.252	MDL1 0.226	GO 0.259	
ISP 16.533	SFJ 0.573	MDT2 0.119	BD 0.125	
BAS 1.689	SPL 0.000	MDL2 0.177	MWT 0.00	
FSP 0.000	TPS 6.309	TL 1.768	MCG 0.000	

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date				SG 1.0240	
FFM 1.262	FF 1.269	SFFP 0.457			
FAM 0.880	FA 0.884	SAFP 11.735			
W1 87.5	PD1 571.7	WD 11.690			
W2 87.5	PD2 571.7	GSA 1.0			
W3 87.5	PD3 571.7	RSA 1.0			
W4 87.5	PD4 571.7	PLM 9000.0			
LCF from stem on CL / on sheer				6.850 / 7.054	
Maximum beam station from stem				7.391	
RM Measured				140.9kg-m	
RM Default				142.6kg-m	
Limit of positive stability / Stab.Index				115.8° / 118.0	
Freeboard at mast at 4.825				1.076	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.458	
Type Folding 2 blades	PBW 0.116	
Twin Screw	PIPA 0.0032	
ST1 0.049	ST3 0.177	ST5 0.366
ST2 0.174	ST4 0.095	EDL 1.457

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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	
	0.170	1.07	1.91	3.31	4.35	45.22	46.11	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	AS · (SFL + 4·SHW) / 6		
	19.20	16.52	17.86	10.53	10.73	157.32			

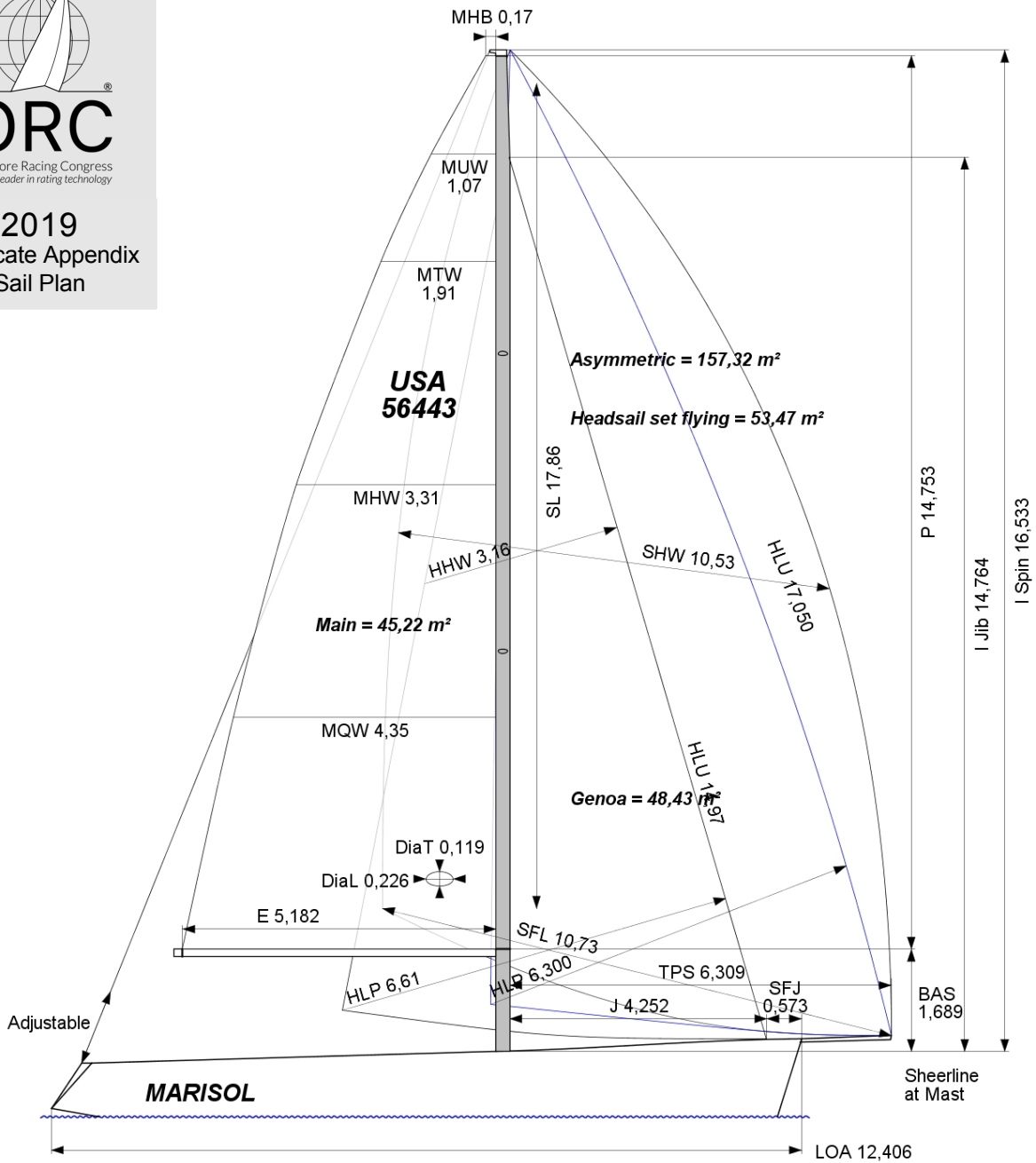
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HNB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.06	0.80	1.55	3.10	4.71	6.30	17.05	53.47		Y		Unknow	
0.07	0.79	1.55	3.16	4.87	6.61	14.97	48.44				Unknow	



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.17	1.07	1.91	3.31	4.35	45.23				Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.80	1.55	3.10	4.71	6.30	17.05	148%	53.47		Y					Unknow
FRACT	0.07	0.79	1.55	3.16	4.87	6.61	14.97	155%	48.44							Unknow
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	19.20	16.52	17.86	10.53	10.73	157.32	asym				Unknown					