

BOAT Name SETTLER Sail Nr USA 52643	GPH 522.0	HULL Length Overall 13.106m Maximum Beam 3.816m Displacement 5,581kg Draft 3.156m IMS Reg. Division Dynamic Allowance 0.000% Fwd Accommodation Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class CUSTOM Designer TRIPP Builder NEBW Series 03/1997 Age 03/1997 Age Allowance 0.487% Offset File US6052.OFF - 31/08/2016 14:43:32 Measurement by WILLIAMS - 19/05/2002		IMSL 11.256m VCGD -0.669m Sink 22.71kg/mm RL 12.101m VCGM -0.663m WS 30.72m² LSMO 10.770m Displacement/Length ratio 4.4675



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	507.8			572.6	
Time On Time	1.1816			1.1789		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	595.4	464.3	406.7	773.7	575.2	499.0
Time on Time	1.1337	1.4538	1.6599	0.8724	1.1735	1.3527

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	875.0	712.3	637.6	607.0	590.3	582.9	571.2
52°	568.7	474.9	446.5	434.3	426.4	420.8	410.1
60°	532.2	458.4	432.0	418.1	409.0	402.7	392.0
75°	501.7	446.8	416.4	394.0	382.3	374.5	365.3
90°	501.6	445.9	415.5	386.0	362.8	348.4	333.8
110°	523.3	445.9	407.8	386.1	366.5	350.2	307.4
120°	543.0	453.6	415.2	379.6	355.9	338.4	301.2
135°	609.2	489.2	440.6	406.6	373.2	339.0	278.5
150°	728.4	577.2	489.2	443.5	412.2	381.9	320.3
Run VMG	841.1	666.4	564.9	504.9	465.9	433.4	369.8

Certificate

Number **US6052**
ORC Ref **USA00000402**
Issued On **08/06/2017**
VPP Ver. **2017 1.00**
Valid until **28/02/2018**

Crew Weight

Declared **980kg**
Default* **765kg**
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	553.0	1.0850
Non Spin OSN	539.8	1.1116

Selected Courses	858.0	689.4	601.2	556.0	528.1	508.2	470.5
Windward / Leeward	858.0	689.4	601.2	556.0	528.1	508.2	470.5
Circular Random	717.3	580.3	506.9	463.7	435.6	415.1	384.1
Ocean for PCS	884.5	682.6	569.1	499.3	452.5	418.0	365.8
Non Spinnaker	771.7	619.3	536.3	486.6	454.6	432.1	400.2

Sails Limitations

Headsails	Spinnakers
7	5

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.2°	42.5°	39.4°	37.4°	36.2°	35.8°	35.2°
Beat VMG	4.11	5.05	5.65	5.93	6.10	6.18	6.30
52°	6.33	7.58	8.06	8.29	8.44	8.56	8.78
60°	6.76	7.85	8.33	8.61	8.80	8.94	9.18
75°	7.17	8.06	8.65	9.14	9.42	9.61	9.86
90°	7.18	8.07	8.66	9.33	9.92	10.33	10.78
110°	6.88	8.07	8.83	9.32	9.82	10.28	11.71
120°	6.63	7.94	8.67	9.48	10.12	10.64	11.95
135°	5.91	7.36	8.17	8.85	9.65	10.62	12.93
150°	4.94	6.24	7.36	8.12	8.73	9.43	11.24
Run VMG	4.28	5.40	6.37	7.13	7.73	8.31	9.73
Gybe Angles	142.4°	142.7°	149.6°	156.4°	168.2°	180.0°	139.3°

Class Division Length

CDL = **11.679**

Storm Sails Areas

Heavy Weather Jib **33.75**
Storm Jib (JL=10.28) **12.50**
Storm Trysail **18.92**

Owner

BOAT	
Name SETTLER	Sail Nr USA52643
File US6052	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 29/07/2016		SG 1.0100	
FFM 1.373	FF 1.377	SFFP 0.225	
FAM 1.144	FA 1.147	SAFP 12.410	
W1 95.4	PD1 432.0	WD 13.350	
W2 95.4	PD2 432.0	GSA 1.0	
W3 95.4	PD3 432.0	RSA 1.0	
W4 95.4	PD4 432.0	PLM 9000.0	
LCF from stem on CL / on sheer		6.936 / 7.176	
Maximum beam station from stem		7.713	
RM Measured		232.2kg·m	
RM Default		198.4kg·m	
Limit of positive stability / Stab.Index		141.6° / 139.9	
Freeboard at mast at 4.825		1.229	

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay Fixed	Runners 1		
Carbon Mast Yes	Jumper Struts Yes		
Taper Hollows No	Jib Furler		
Fiber Rigging	Main Furler		
Lenticular Rigging	Without Backstay		
Articulated Bowsprit No			
P 17.029	E 6.350	MDT1 0.115	MW 0.236
IG 15.788	J 4.675	MDL1 0.226	GO 0.243
ISP 18.883	SFJ 0.150	MDT2 0.069	BD 0.275
BAS 1.789	SPL 5.670	MDL2 0.140	MWT 200.00
FSP 0.066	TPS 5.670	TL 3.020	MCG 5.670

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.408		
Type Folding 2 blades	PBW 0.107		
Twin Screw	PIPA 0.0036		
ST1 0.041	ST3 0.180	ST5 0.285	
ST2 0.180	ST4 0.114	EDL 0.712	

COMMENTS	
NEW KEEL CONFIG SCANNED 2016 DATA FROM RAVEN ORR	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.39	2.40	4.10	5.30	64.39	65.90	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	19.10	19.10	19.10	10.15	10.09	161.36		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	20.70	16.80	18.75	10.20	10.75	161.09		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	Fly	Meas.Date	Material	Comment
0.05	0.83	1.63	3.27	4.96	6.75	16.02	53.19				Unknow	



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IMS Measurement Certificate

Certificate

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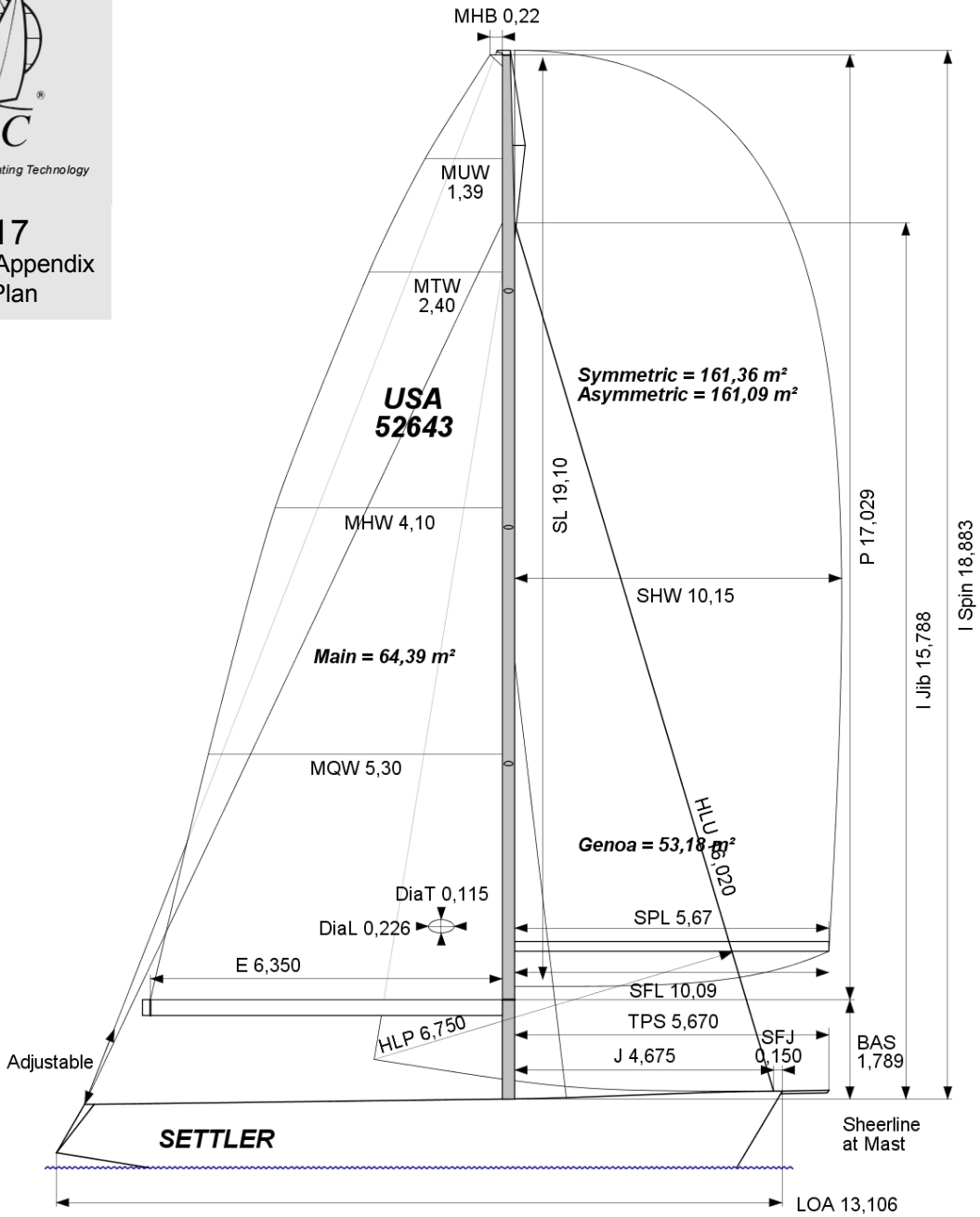


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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
fries inshore	0.220	1.39	2.40	4.10	5.30	64.39				Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
L/M	0.05	0.83	1.63	3.27	4.96	6.75	16.02	144%	53.19							Unknow

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2017 s1	19.10	19.10	19.10	10.15	10.09	161.36				Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2017 A1	20.70	16.80	18.75	10.20	10.75	161.09	asym	JOHN FRIES			Unknown	