

BOAT Name SETTLER Sail Nr USA 52643	GPH 514.7	HULL Length Overall 13.106m Maximum Beam 3.816m Displacement 5,493kg Draft 3.152m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension 0.00
GENERAL Class Designer TRIPP Builder NEBW Series 04/1997 Age 04/1997 Age Allowance 0.487% Offset File US6052.OFF - 11/08/2016 10:02:26 Measurement by - 19/05/2002		IMSL 11.224m VCGD -0.697m Sink 22.59kg/mm RL 12.689m VCGM -0.688m WS 30.57m² LSM0 10.726m Displacement/Length ratio 4.4514



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	500.4			561.7		
Time on Time	1.1991			1.2018		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	580.5	459.7	405.6	747.0	564.4	493.1
Time on Time	1.1628	1.4684	1.6644	0.9036	1.1960	1.3688

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	826.4	674.6	616.0	592.8	580.5	576.0	562.4
52°	543.8	464.9	442.4	432.3	425.8	421.2	411.1
60°	514.1	453.3	430.2	418.0	410.3	405.1	395.0
75°	494.7	445.7	417.7	397.4	386.7	379.6	371.5
90°	499.2	446.9	417.8	390.6	369.9	356.3	341.4
110°	520.2	445.2	408.7	386.3	368.9	353.7	315.5
120°	537.6	451.4	412.9	379.4	355.4	338.1	301.4
135°	600.9	483.7	436.9	402.0	368.9	334.9	272.9
150°	718.5	569.2	484.6	440.3	408.1	378.0	315.4
Run VMG	829.7	657.3	559.5	501.7	463.8	431.3	364.2

Certificate
Number **US6052**
ORC Ref **USAX026WTRF**
Issued On **11/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 761kg
Maximum **980kg**
Minimum* **735kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **547.3 1.0963**
Non Spin OSN **533.9 1.1238**

Selected Courses							
Windward / Leeward	828.0	666.0	587.7	547.2	522.2	503.6	463.3
Circular Random	701.6	570.0	500.2	459.5	433.0	413.5	382.8
Coastal / Long Distance	828.2	628.8	533.6	477.8	444.5	417.1	366.6
Non Spinnaker	759.1	611.1	531.1	483.5	452.9	431.2	399.9

Sails Limitations
Headsails **7** Spinnakers **5**

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	42.2°	40.4°	37.4°	35.9°	35.0°	34.6°	34.0°
Beat VMG	4.36	5.34	5.84	6.07	6.20	6.25	6.40
52°	6.62	7.74	8.14	8.33	8.46	8.55	8.76
60°	7.00	7.94	8.37	8.61	8.77	8.89	9.11
75°	7.28	8.08	8.62	9.06	9.31	9.48	9.69
90°	7.21	8.06	8.62	9.22	9.73	10.10	10.55
110°	6.92	8.09	8.81	9.32	9.76	10.18	11.41
120°	6.70	7.97	8.72	9.49	10.13	10.65	11.94
135°	5.99	7.44	8.24	8.95	9.76	10.75	13.19
150°	5.01	6.32	7.43	8.18	8.82	9.52	11.41
Run VMG	4.34	5.48	6.43	7.18	7.76	8.35	9.88
Gybe Angles	142.4°	143.3°	149.7°	156.3°	166.1°	180.0°	143.1°

Class Division Length
CDL = **11.958**

Storm Sails Areas
Heavy Weather Jib **33.76**
Storm Jib (JL=10.28) **12.51**
Storm Trysail **18.93**

Owner

BOAT	
Name SETTLER	Sail Nr USA 52643
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		6.932 / 7.170
Maximum beam station from stem		7.713
RM Measured		232.2kg-m
RM Default		196.8kg-m
Limit of positive stability / Stab.Index		142.1° / 140.2
Freeboard at mast at 4.825		1.233



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RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay Fixed	Runners 1
Carbon Mast Yes	Jumper Struts Yes
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 17.029	E 6.350
IG 15.788	J 4.675
ISP 18.883	SFJ 0.150
BAS 1.789	SPL 5.670
FSP 0.066	TPS 5.670
MDT1 0.115	MW 0.236
MDL1 0.226	GO 0.243
MDT2 0.069	BD 0.275
MDL2 0.140	MWT 200.00
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 No	PIPA 0.0036	
ST1 0.041	ST3 0.180	ST5 0.285
ST2 0.180	ST4 0.114	EDL 0.712

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COMMENTS	

MOVABLE BALLAST	
N/A	

BILGEBOARD		
BS	BT	BA
BF	BX	
BC	BY	



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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	161.14		SL · (SFL + 4·SHW) / 6	
	19.10	19.10	19.10	10.15	10.02				
Asymmetric	SLU	SLE	SL	SHW	SFL	161.09		AS · (SFL + 4·SHW) / 6	
	20.70	16.80	18.75	10.20	10.75				

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					L/M GEN

MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Id	Item	Weight	Distance	VCG Description
a	Ancher	0-0	0-00	
Id	Item	Weight Description		

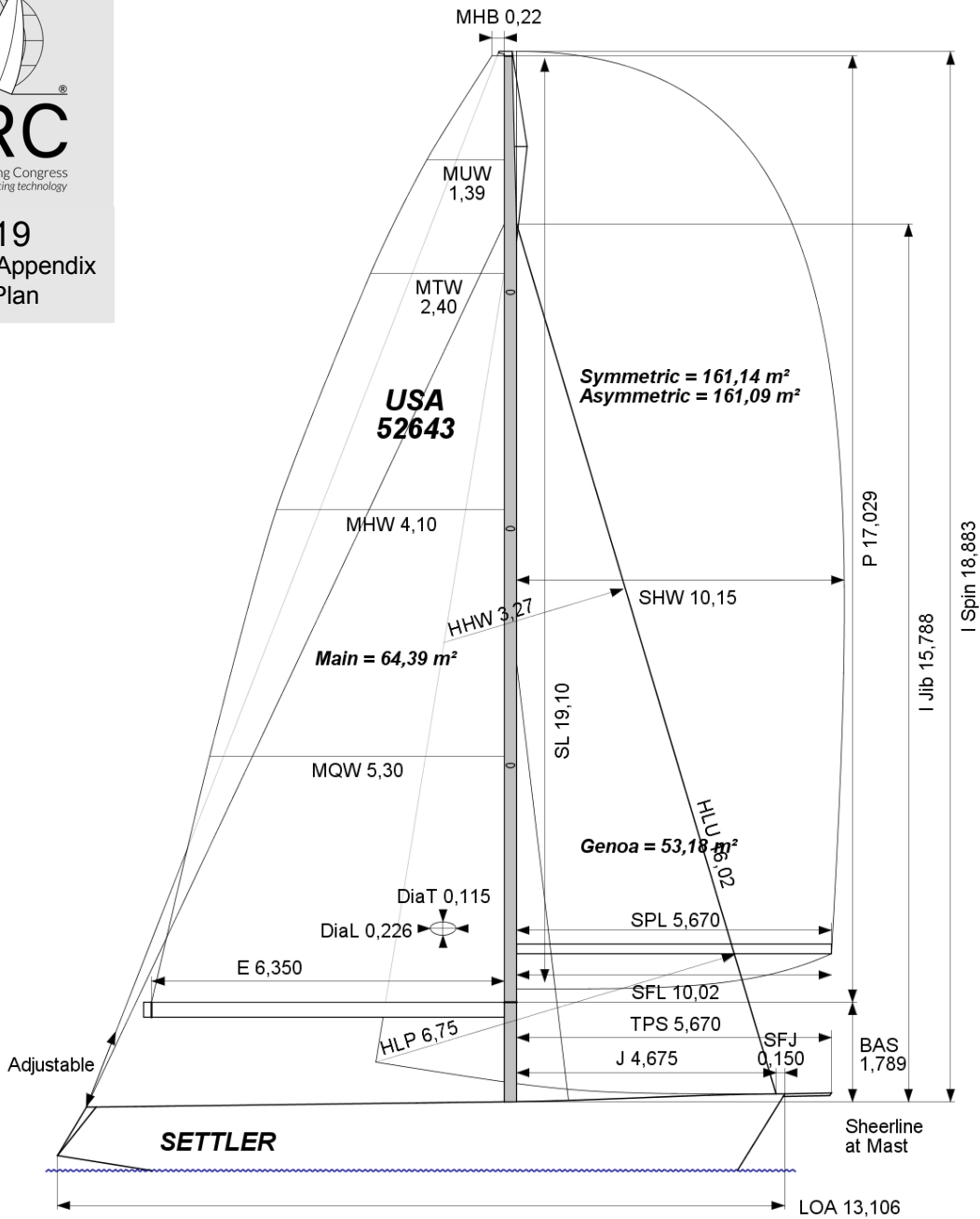
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
		Tank				0.00	0.00	0-0	
Id	Item	Weight	Distance	VCG Description					



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Sail Plan**



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1579815	0.22	1.39	2.40	4.10	5.30	64.40					INSHORE					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1579830	0.05	0.83	1.63	3.27	4.96	6.75	16.02	144%	53.19							L/M GEN
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1833713	19.10	19.10	19.10	10.15	10.02	161.15				John Fries	S1 2018					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1579844	20.70	16.80	18.75	10.20	10.75	161.10	asym					2017 A1				