

BOAT Name CHESSIE RACING Sail Nr USA 54	GPH 444.7	HULL Length Overall 18.900m Maximum Beam 5.296m Displacement 15,880kg Draft 4.067m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.063% Fwd Accommodation Yes Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL Class TRIPP 62 Designer TRIPP Builder NEB Series 05/2016 Age 05/2016 Age Allowance 0.033% Offset File TRP62.OFF - 12/10/2017 13:32:44 Measurement by WILLIAMS - 10/07/2017		IMSL 18.635m VCGD 0.065m Sink 53.05kg/mm RL 15.788m VCGM 0.051m WS 66.93m² LSMO 18.561m Displacement/Length ratio 2.4834



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	432.7			491.5		
Time On Time	1.3866			1.3732		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	517.3	392.1	340.1	682.4	495.5	421.0
Time on Time	1.3049	1.7213	1.9849	0.9891	1.3622	1.6033

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	787.9	628.0	561.9	531.4	510.6	494.3	488.0
52°	504.1	406.0	374.2	362.1	354.9	347.1	341.4
60°	466.3	381.2	358.1	348.5	342.3	334.3	324.4
75°	433.2	363.9	340.8	328.2	319.3	313.1	295.8
90°	433.0	365.0	337.5	313.1	299.7	291.2	279.8
110°	452.0	367.2	344.4	325.0	308.8	287.1	253.1
120°	470.1	375.4	339.0	319.8	303.2	284.9	254.3
135°	531.2	414.7	358.7	329.6	298.3	272.4	242.9
150°	640.9	496.9	413.0	366.3	336.7	314.7	257.4
Run VMG	740.1	573.7	476.8	424.7	393.1	363.4	297.2

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VPP Ver. **2017 1.00**
Valid until **28/02/2018**

Crew Weight

Declared **1,663kg**
Default* **1,663kg**
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	480.6	1.2484
Non Spin OSN	471.0	1.2738

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	764.0	600.9	519.4	478.1	451.8	428.8	392.6
Circular Random	622.9	498.0	430.9	391.5	366.0	347.6	320.5
Ocean for PCS	773.7	590.3	487.2	423.9	381.7	350.7	305.0
Non Spinnaker	684.1	542.9	465.2	418.4	387.8	366.4	338.0

Sails Limitations	Headsails	Spinnakers
	8	6

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	44.7°	43.8°	41.7°	40.5°	39.4°	39.0°	39.0°
Beat VMG	4.57	5.73	6.41	6.77	7.05	7.28	7.38
52°	7.14	8.87	9.62	9.94	10.14	10.37	10.55
60°	7.72	9.45	10.05	10.33	10.52	10.77	11.10
75°	8.31	9.89	10.56	10.97	11.27	11.50	12.17
90°	8.31	9.86	10.67	11.50	12.01	12.36	12.87
110°	7.96	9.80	10.45	11.08	11.66	12.54	14.22
120°	7.66	9.59	10.62	11.26	11.87	12.63	14.16
135°	6.78	8.68	10.04	10.92	12.07	13.21	14.82
150°	5.62	7.25	8.72	9.83	10.69	11.44	13.99
Run VMG	4.86	6.27	7.55	8.48	9.16	9.91	12.11
Gybe Angles	140.2°	139.5°	144.7°	150.8°	152.2°	148.4°	142.4°

Class Division Length

CDL = **17.213**

Storm Sails Areas


Heavy Weather Jib **89.69**
Storm Jib (JL=16.75) **33.22**
Storm Trysail **40.26**

Owner

BOAT	
Name CHESSIE RACING	Sail Nr USA 54
File US6231	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 10/07/2017	SG 1.0240	
FFM 1.697	FF 1.698	SFFP 0.750
FAM 1.222	FA 1.225	SAFP 18.940
W1 321.5	PD1 4414.0	WD 17.050
W2 321.5	PD2 441.4	GSA 1.0
W3 321.5	PD3 441.4	RSA 1.0
W4 321.5	PD4 441.4	PLM 9000.0
LCF from stem on CL / on sheer		10.807 / 11.095
Maximum beam station from stem		13.500
RM Measured		757.9kg·m
RM Default		811.3kg·m
Limit of positive stability / Stab.Index		112.5° / 117.6
Freeboard at mast at 8.050		1.587

RIG				
Forestay Tension Aft	Spreaders 3			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	Jumper Struts None			
Taper Hollows No	Jib Furler Yes			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 26.260	E 8.760	MDT1 0.183	MW 0.351	
IG 25.603	J 7.630	MDL1 0.351	GO 0.402	
ISP 28.293	SFJ 0.420	MDT2 0.174	BD 0.480	
BAS 1.735	SPL	MDL2 0.284	MWT 537.00	
FSP 0.110	TPS 9.515	TL 3.500	MCG 11.240	



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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.520	
Type Folding 3 or 4 blades	PBW 0.130	
Twin Screw	PIPA 0.0042	
ST1 0.056	ST3 0.193	ST5 0.422
ST2 0.193	ST4 0.104	EDL 4.199

COMMENTS
 197278J; OFFSETS CORRELATED 10/2017
 2017 DSPM=FULL OUTFIT
 2016 IRC SCALE= NOT OUTFITTED
 MHB/MQW BY PHONE NORTH ANNAPOLIS

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	
	0.335	1.56	2.88	5.18	7.05	
	Area		Area (r)		Formula	
	128.90		130.41		P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric						
Not Available						
Asymmetric	SLU	SLE	SL	SHW	SFL	
	30.56	27.58	29.07	16.04	16.89	
	Area		AS · (SFL + 4·SHW) / 6		392.69	

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
0.25	1.33	2.23	3.99	5.76	7.66	25.54	101.62				Unknow	

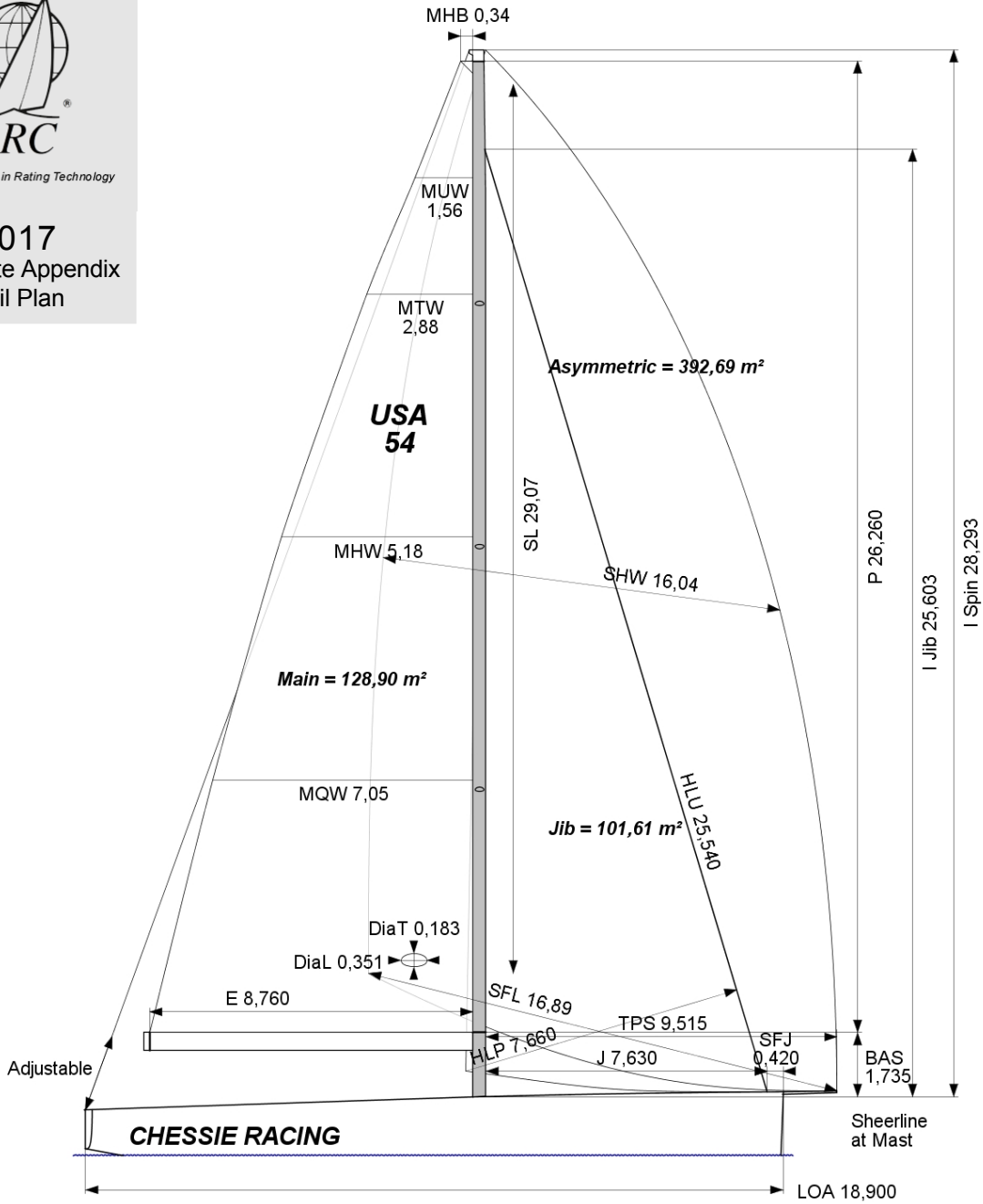
MEASUREMENT INVENTORY				
Measurer	Date	Comment		
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

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</i>	<i>Description</i>
1	Tank	FUEL		98.4	12.63	-0.25	98.4	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
N-MAIN	0.335	1.56	2.88	5.18	7.05	128.90				Unknown	CRUISE					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3DI-	0.25	1.33	2.23	3.99	5.76	7.66	25.54	100%	101.62							Unknown
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A2-114308-	30.56	27.58	29.07	16.04	16.89	392.69	asym				Unknown					
A0-114308-	28.75	26.80	27.77	9.57	12.75	236.23	asym				Unknown					