

HIGH PERFORMANCE RULE V.4h1 2015



Boat Name:	BUD
Class:	TP 52
Certificate:	2015 Big Boat
Sail Number:	USA52006
Issue Date:	9/15/15 16:09

Owner: **Victor Wild**

Owner Signature: _____

Certificate Fee: **\$415.54** (\$26.25/m LOA)
Change Fee: **\$0.00**

Hull	
LOA	15.830
FO	0.38
Y	0.115
Age Date	2006
BM	4.420
FF	1.478
FBI	1.265
FA	1.151
DRA	3.189
CW	1386
Dempty	7216.6
Pre HPR	0.000

Spars	
J	6.18
P	20.42
E	7.21
IG	19.628
ISP	22.403
BAL	0.152
BD	0.355
BAS	2.128
FSP	0.08
CPD	0.135
CPW	1
SWA	15.11
MWT	296
MCG	7.14
BWT	0.000
BCG	3.226

Mainsail	
HB	1.26
MGT	2.13
MGU	3.19
MGM	4.77
MGL	6.01
Meas Main	92.69
Rated Main	94.97
Jib	
Jib luff	20.04
LPG	6.220
LP	6.3
JH	0.160
JGT	0.940
JGU	1.690
JGM	3.230
JGL	4.730
Jib Area	65.693
JSA + MSA	160.67

				Reference Only	
Measured / Calculated	Meas Val	Base	Base Val	Meas - Base	PD- Percent Difference
Beam	4.420	Bmaxb	4.420	0.000	0.000
Meas Freeboard - FR	1.298	FRb	1.307	-0.009	-0.007
Meas Draft - DRA	3.189	DRAb	3.487	-0.298	-0.086
Meas/Calc - VCG	-0.738	VCGb	-1.119	0.381	-0.341
Meas Crew Wt - CW	1386	CWb	1113	273.0	0.245
Displ - Dempty	7217	Demptyb	7145	72	0.010
USA	160.666	USAb	162.4	-1.75	-0.011
Spinnaker	266.272	SPINb	265.2	1.11	0.004
Rig Height	22.548	RHb	22.86	-0.309	-0.014

KWT	0.0
KVCG	0.000
HCGic	0.759
HWtic	6920.6
VCG-comp	0.000
VCG-incl	-0.738

Runners	
Runners	0
Spreaders	3
TPS	8.604
TPSmax	8.819
TPS Excess	0.000

0.39	62.66	= JSA min
0.44	70.69	= JSA max
Ayso		
SLU	25.15	
SLE	21.95	
AMG	13.46	
ASF	14	
AYSO	266.27	

Final Calculation		
Length	L	15.4500
Age Plus Pre HPR	AGEc	0.9820
Beam	BMc	1.0000
Freeboard	FRc	1.0000
Draft	DRAc	0.9962
VCG	VCGc	0.9744
Crew Factor	CFc	1.0003
Displacement	Demptyc	0.9986
Upwind Sail Area	USAc	0.9980
Spinnaker Area	SPAc	1.0005
Rig Height	RHc	0.9977
Robust Mast	RMASAc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	1.0000
Preliminary Rated Length == >		14.4042
Rated Length Lower Limit == >		13.5960
Final Rated Length ===== >		14.4042

TCF	1.0730
Seconds per mile	514.5

RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	
VCG SOURCE	
OFFSETS FILE / INCLINATION	
NO BOOM WGT: SMALL RATED LENGTH PENALTY	

Final Rating is in Units of Length
TCF is calculated from the Final Rating by the formula:
 $TCF = (L/12.2)^{.424}$
A boat with Rated Length 12.2m will have a TCF of 1.000
Seconds per mile = 552 / TCF

1+.002*age
.002*age

Website: www.hprsailing.org

www.offshoreracingrule.org

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Bill's color code	
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Intermediate Calculations	2-1
Base or Max	1-10
Correctors	1-3
Final Rating	1-9

Corrector Guide

1.000 - Measured Value Equals Base Value
> 1.0000 - Measured Value is slower than Base Value
< 1.0000 - Measured Value is faster than Base Value

L value = Yellow indicates AGE applies