

HIGH PERFORMANCE RULE V.4h1 2015



Boat Name: **VARUNA**
 Class: **Rogers 46**
 Certificate: **2015 Big Boat**
 Sail Number: **USA60100**
 Issue Date: **9/9/15 10:33**

Owner: **Chris Hemans**

Owner Signature: _____

Certificate Fee:
 Change Fee:

\$100.00

Hull	
LOA	14.030
FO	0
Y	0.08
Age Date	2006
BM	3.990
FF	1.419
FBI	1.211
FA	1.082
DRA	2.919
CW	1080
Dempty	6649
Pre HPR	0.015

KWT	0.0
KVCG	0.000
HCGic	0.724
HWtic	6451.0
VCG-comp	0.000
VCG-incl	-0.756

RUD2	N
PSP	Y
AC	0
HDHM	0
SPHM	0
EOSC	Y

Spars	
J	5.54
P	18.14
E	6.55
IG	17.54
ISP	20.14
BAL	0
BD	0.342
BAS	1.98
FSP	0.082
CPD	0.135
CPW	1
SWA	15.11
MWT	198
MCG	6.7
BWT	0.000
BCG	3.017

Runners	2
Spreaders	2
TPS	7.540
TPSmax	8.218
TPS Excess	0.000

Mainsail	
HB	1.15
MGT	1.9
MGU	2.81
MGM	4.28
MGL	5.48
Meas Main	74.28
Rated Main	76.10
Jib	
Jib luff	17.77
LPG	5.740
LP	5.822
JH	0.080
JGT	0.800
JGU	1.530
JGM	2.960
JGL	4.390
Jib Area	53.620
JSA + MSA	129.72

0.39 50.59 = JSA min
 0.44 57.08 = JSA max

Ayso	
SLU	22.68
SLE	19.4
AMG	12.09
ASF	12.55
AYSO	213.59

15.1096 **MGMH 9.433 < ORC-RS 109.1**
MGLH 4.732 "
MGUH 14.116 "
MGTH 16.474 "

Measured / Calculated	Meas Val	Base	Base Val	Reference Only	
				Meas - Base	PD- Percent Difference
Beam	3.990	Bmaxb	4.149	-0.159	-0.038
Meas Freeboard - FR	1.237	FRb	1.243	-0.006	-0.004
Meas Draft - DRA	2.919	DRAb	3.209	-0.290	-0.090
Meas/Calc - VCG	-0.756	VCGb	-0.982	0.226	-0.230
Meas Crew Wt - CW	1080	CWb	962	118.0	0.123
Displ - Dempty	6649	Demptyb	5661	988	0.174
USA	129.718	USAb	137.1	-7.34	-0.054
Spinnaker	213.591	SPINb	228.0	-14.44	-0.063
Rig Height	20.140	RHb	21.02	-0.882	-0.042

Final Calculation		
Length	L	14.0300
Age Plus Pre HPR	AGEc	0.9671
Beam	BMc	0.9982
Freeboard	FRc	1.0000
Draft	DRAc	0.9960
VCG	VCgc	0.9835
Crew Factor	CFc	1.0020
Displacement	Demptyc	0.9774
Upwind Sail Area	USAc	0.9908
Spinnaker Area	SPAc	0.9929
Rig Height	RHc	0.9937
Robust Mast	RMAStc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	0.9900
Preliminary Rated Length == >		12.3592
Rated Length Lower Limit == >		12.3464
Final Rated Length ===== >		12.3592

TCF **1.0055**
 Seconds per mile **549.0**

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

Contacts: Bill Lee (Rule, Primary Contact)
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Bill's color code	
Inputs	1-7
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