

HIGH PERFORMANCE RULE V.4h1 2015



Boat Name: **DOUBLE TROUBLE**
 Class: **J125**
 Certificate: **2015 Big Boat**
 Sail Number: **USA93204**
 Issue Date: **9/9/15 10:10**

Owner: **Peter Krueger**

Owner Signature: _____

Certificate Fee: **\$328.68** (\$26.25/m LOA)
 Change Fee: **\$0.00**

Hull	
LOA	12.521
FO	0.37
Y	0.09
Age Date	1998
BM	3.200
FF	1.271
FBI	0.984
FA	0.808
DRA	2.479
CW	1065
Dempty	4241
Pre HPR	0.030

KWT	0.0
KVCG	0.000
HCGic	0.597
HWtic	4241.0
VCG-comp	0.000
VCG-incl	-0.45

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

Spars	
J	4.499
P	14.152
E	5.48
IG	14.9047
ISP	15.8709
BAL	0.152
BD	0.155
BAS	1.512
FSP	0.06706
CPD	0.135
CPW	1
SWA	15.11
MWT	0
MCG	0
BWT	0.000
BCG	2.333

Runners	
Runners	0
Spreaders	2
TPS	6.959
TPSmax	7.424
TPS Excess	0.000

Mainsail	
HB	0.2
MGT	1.3
MGU	2.29
MGM	3.71
MGL	4.68
Meas Main	47.93
Rated Main	49.42
Jib	
Jib luff	14.64
LPG	6.680
LP	6.747057
JH	0.080
JGT	0.800
JGU	1.550
JGM	3.140
JGL	4.810
Jib Area	48.231
JSA + MSA	97.65

0.39 38.09 = JSA min
 0.44 42.97 = JSA max

Ayso	
SLU	18.89
SLE	16.11
AMG	11.85
ASF	11.72
AYSO	172.43

15.1096 **MGMH 7.452 < ORC-RS 109.1**
MGLH 3.746 "
MGUH 11.043 "
MGTH 12.711 "

Measured / Calculated	Meas Val	Base	Base Val	Reference Only	
				Meas - Base	PD- Percent Difference
Beam	3.200	Bmaxb	3.790	-0.590	-0.156
Meas Freeboard - FR	1.021	FRb	1.158	-0.137	-0.118
Meas Draft - DRA	2.479	DRAb	2.841	-0.362	-0.127
Meas/Calc - VCG	-0.45	VCGb	-0.795	0.345	-0.434
Meas Crew Wt - CW	1065	CWb	760	305.0	0.401
Displ - Dempty	4241	Demptyb	3972	269	0.068
USA	97.654	USAb	106.2	-8.58	-0.081
Spinnaker	172.433	SPINb	182.7	-10.24	-0.056
Rig Height	15.871	RHb	18.53	-2.663	-0.144

Final Calculation		
Length	L	12.1510
Age Plus Pre HPR	AGEc	0.9460
Beam	BMc	0.9934
Freeboard	FRc	1.0000
Draft	DRAc	0.9943
VCG	VCGc	0.9730
Crew Factor	CFc	1.0317
Displacement	Demptyc	0.9915
Upwind Sail Area	USAc	0.9873
Spinnaker Area	SPAc	0.9944
Rig Height	RHc	0.9812
Robust Mast	RMASAc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	0.9900
Preliminary Rated Length == >		10.5926
Rated Length Lower Limit == >		10.6929
Final Rated Length ===== >		10.6929

TCF **0.9456**
 Seconds per mile **583.7**

RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	MINIMUM RATED LENGTH APPLIED
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