

# HIGH PERFORMANCE RULE V.4h1 2015



Boat Name:	<b>TAI KUALI</b>
Class:	<b>R/P 44</b>
Certificate:	<b>2015 Big Boat</b>
Sail Number:	<b>USA7676</b>
Issue Date:	<b>9/9/15 11:39</b>

Owner: Daniel Thielman

Owner Signature: \_\_\_\_\_

Certificate Fee: **\$266.00** (\$20.00/m LOA)  
Change Fee: **\$0.00**

Hull	
LOA	13.300
FO	0.03
Y	0.19
Age Date	2003
BM	3.550
FF	1.436
FBI	1.318
FA	1.111
DRA	3.310
CW	994
Dempty	5935
Pre HPR	0.024

Spars	
J	4.9
P	17.74
E	6.4
IG	17.08
ISP	19.747
BAL	0
BD	0
BAS	1.901
FSP	0.064
CPD	0.135
CPW	1
SWA	15.11
MWT	0
MCG	0
BWT	0.000
BCG	2.989

Mainsail	
HB	0.23
MGT	1.59
MGU	2.45
MGM	3.85
MGL	5.12
Meas Main	65.90
Rated Main	67.20
Jib	
Jib luff	16.82
LPG	4.900
LP	4.964
JH	0.125
JGT	0.790
JGU	1.390
JGM	2.530
JGL	3.730
Jib Area	43.670
JSA + MSA	110.87

Measured / Calculated	Meas Val	Base	Base Val	Reference Only	
				Meas - Base	PD- Percent Difference
Beam	3.550	Bmaxb	4.004	-0.454	-0.113
Meas Freeboard - FR	1.288	FRb	1.209	0.080	0.066
Meas Draft - DRA	3.310	DRAb	3.060	0.250	0.082
Meas/Calc - VCG	-1.028	VCGb	-0.907	-0.121	0.133
Meas Crew Wt - CW	994	CWb	880	114.0	0.130
Displ - Dempty	5935	Demptyb	4940	995	0.201
USA	110.870	USAb	124.2	-13.35	-0.107
Spinnaker	196.226	SPINb	209.2	-12.94	-0.062
Rig Height	19.747	RHb	20.02	-0.277	-0.014

KWT	0.0
KVCG	0.000
HCGic	0.754
HWtic	5935.0
VCG-comp	0.000
VCG-incl	-1.028

Runners	
Runners	0
Spreaders	
Spreaders	3
TPS	6.710
TPSmax	7.897
TPS Excess	0.000

Ayso	
SLU	22
SLE	19.5
AMG	11.31
ASF	11.5
AYSO	196.23

0.39 43.24 = JSA min  
0.44 48.78 = JSA max

Final Calculation		
Length	L	13.2700
Age Plus Pre HPR	AGEc	0.9518
Beam	BMc	0.9947
Freeboard	FRc	0.9963
Draft	DRAc	1.0037
VCG	VCGc	1.0092
Crew Factor	CFc	1.0029
Displacement	Demptyc	0.9745
Upwind Sail Area	USAc	0.9824
Spinnaker Area	SPAc	0.9934
Rig Height	RHc	0.9980
Robust Mast	RMASAc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	1.0000
Preliminary Rated Length == >		11.8607
Rated Length Lower Limit == >		11.6776
Final Rated Length ===== >		11.8607

TCF	0.9881
Seconds per mile	558.6

## 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:  
 $TCF = (L/12.2)^{4.24}$   
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](http://www.hprsailing.org)

[www.offshoreracingrule.org](http://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