

HIGH PERFORMANCE RULE V.4h1 2014



Boat Name: **HAMACHI**
 Class: **J125**
 Certificate: **Quantum Key West**
 Sail Number: **USA13696**
 Issue Date: **1/13/15 8:41**

Owner: **Greg Slyngstad**

Owner Signature: _____

Certificate Fee: **\$328.83** (\$26.25/m LOA)
 Change Fee: **\$0.00**

Hull	
LOA	12.527
FO	0.37
Y	0.1
Age Date	1998
BM	3.194
FF	1.292
FBI	0.993
FA	0.793
DRA	2.479
CW	817
Dempty	4239.7
Pre HPR	0.030

KWT	0.0
KVCG	0.000
HCGic	0.600
HWtic	4099.5
VCG-comp	0.000
VCG-incl	-0.469

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

Spars	
J	4.471
P	14.182
E	5.468
IG	14.944
ISP	15.874
BAL	0
BD	0.162
BAS	1.518
FSP	0.064
CPD	0.135
CPW	1
SWA	15.11
MWT	140.2
MCG	5.05669
BWT	0.000
BCG	2.344

Runners	
Runners	0
Spreaders	2
TPS	6.632
TPSmax	7.426
TPS Excess	0.000

Mainsail	
HB	0.205
MGT	1.28
MGU	2.25
MGM	3.69
MGL	4.65
Meas Main	47.70
Rated Main	49.13
Jib	
Jib luff	14.16
LPG	6.890
LP	6.954
JH	0.100
JGT	0.885
JGU	1.720
JGM	3.430
JGL	5.140
Jib Area	49.624
JSA + MSA	98.75

0.39 38.51 = JSA min
 0.44 43.45 = JSA max

Ayso	
SLU	18.28
SLE	16.27
AMG	11.27
ASF	11.98
AYSO	164.29

15.1096 **MGMH** 7.460 < ORC-RS 109.1
MGLH 3.747 "
MGUH 11.043 "
MGTH 12.724 "

Measured / Calculated	Meas Val	Base	Base Val	Reference Only	
				Meas - Base	PD- Percent Difference
Beam	3.194	Bmaxb	3.792	-0.598	-0.158
Meas Freeboard - FR	1.026	FRb	1.158	-0.132	-0.114
Meas Draft - DRA	2.479	DRAb	2.842	-0.363	-0.128
Meas/Calc - VCG	-0.469	VCGb	-0.796	0.327	-0.411
Meas Crew Wt - CW	817	CWb	761	56.0	0.074
Displ - Dempty	4240	Demptyb	3977	263	0.066
USA	98.754	USAb	106.3	-7.58	-0.071
Spinnaker	164.285	SPINb	182.8	-18.53	-0.101
Rig Height	15.874	RHb	18.54	-2.668	-0.144

Final Calculation		
Length	L	12.1570
Age Plus Pre HPR	AGEc	0.9460
Beam	BMc	0.9934
Freeboard	FRc	1.0000
Draft	DRAc	0.9943
VCG	VCGc	0.9744
Crew Factor	CFc	1.0022
Displacement	Demptyc	0.9917
Upwind Sail Area	USAc	0.9888
Spinnaker Area	SPAc	0.9898
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 == >		10.2798
Rated Length Lower Limit == >		10.6982
Final Rated Length ===== >		10.6982

TCF **0.9458**
 Seconds per mile **583.6**

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