HIGH PERFORMANCE RULE V.4h1 2014

Boat Name:	SPOOKIE
Class:	Carkeek 40
Certificate:	Quantum Key West
Sail Number:	USA 95
Issue Date:	1/13/15 8:40

Owner: Steve & Heidi Benjamin

Owner Signature:

Certificate Fee: $319.59 ($26.25/m LOA)

Change Fee: $0.00

Hull	
LOA	12.175
FO	0
Y	0.06
Age Date	2012
BM	3.800
FF	1.325
FBI	1.036
FA	0.916
DRA	2.997
CW	850
Dempty	3992
Pre HPR	0.000

KWT	2308.2
KVCG	-2.572
HCGic	0.639
HWTic	1506.9
VCG-comp	-0.890
VCG-incl	0

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

Spars	
J	4.911
P	17.161
E	5.6
IG	16.238
ISP	18.918
BAL	0
BD	0.29
BAS	1.747
FSP	0.05
CPD	0.135
CPW	1
SWA	15.11
MWT	153.8
MCG	6.052
BWT	23.100
BCG	2.639

Runners	0
Spreaders	2
TPS	7.433
TPSmax	7.434
TPS Excess	0.000

Mainsail	
HB	1.1
MGT	1.82
MGU	2.62
MGM	3.83
MGL	4.76
Meas Main	62.38
Rated Main	63.85
Jib	
Jib luff	16.57
LPG	4.800
LP	4.85
JH	0.130
JGT	0.900
JGU	1.580
JGM	2.790
JGL	3.860
Jib Area	44.726
JSA + MSA	108.58

Ayso	
SLU	21.33
SLE	18.53
AMG	11.94
ASF	11.35
AYSO	196.34

0.39	42.34	= JSA min
0.44	47.77	= JSA max

15.1096

MGMH	8.917	< ORC-RS 109.1
MGLH	4.467	"
MGUH	13.366	"
MGTH	15.616	"

Measured / Calculated	Meas Val	Base	Base Val	Reference Only: Meas - Base	Reference Only: PD- Percent Difference
Beam	3.800	Bmaxb	3.795	0.005	0.001
Meas Freeboard - FR	1.092	FRb	1.159	-0.067	-0.057
Meas Draft - DRA	2.997	DRAb	2.846	0.151	0.053
Meas/Calc - VCG	-0.89015	VCGb	-0.797	-0.093	0.116
Meas Crew Wt - CW	850	CWb	763	87.0	0.114
Displ - Dempty	3992	Demptyb	3991	1	0.000
USA	108.577	USAb	106.6	1.97	0.018
Spinnaker	196.344	SPINb	183.2	13.12	0.072
Rig Height	18.918	RHb	18.57	0.352	0.019

Final Calculation		
Length	L	12.1750
Age Plus Pre HPR	AGEc	0.9940
Beam	BMc	1.0001
Freeboard	FRc	1.0000
Draft	DRAc	1.0024
VCG	VCGc	1.0075
Crew Factor	CFc	1.0037
Displacement	Demptyc	1.0000
Upwind Sail Area	USAc	1.0029
Spinnaker Area	SPAc	1.0070
Rig Height	RHc	1.0025
Robust Mast	RMASTc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	1.0000
Construction Cost	CCc	1.0000
Preliminary Rated Length == >		12.4196
Rated Length Lower Limit == >		10.7140
Final Rated Length ======= >		12.4196

TCF	1.0076
Seconds per mile	547.8

RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	
VCG SOURCE	**COMPONENT WEIGHTS**

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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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