

HIGH PERFORMANCE RULE V.4h1 2014



Boat Name: **CHESSIE RACING**
 Class: **Farr 280**
 Certificate: **Annapolis Fall Regatta**
 Sail Number: **USA 17**
 Issue Date: **10/30/14 17:40**

Owner: **Ian Gordon**

Owner Signature: _____

Certificate Fee: **\$228.11** (\$26.25/m LOA)
 Change Fee: **\$0.00**

Hull	
LOA	8.690
FO	0.15
Y	0.08
Age Date	2014
BM	2.850
FF	0.936
FBI	0.893
FA	0.715
DRA	2.098
CW	449
Dempty	1640
Pre HPR	0.000

Spars	
J	3.15
P	11.69
E	4.14
IG	11.36
ISP	13.02
BAL	0
BD	0.152
BAS	1.25
FSP	0
CPD	0.1
CPW	1
SWA	1
MW	3
CG	4.1
B	15.500
BC	1.898
Runners	0
Spreaders	2
TPS	4.980
TPSmax	5.960
TPS Excess	0.000

Mainsail	
HB	1.02
MGT	1.42
MGU	2
MGM	2.89
MGL	3.54
Meas Main	32.05
Rated Main	32.95
Jib	
Jib luff	34
LPG	3
J	0
JGT	0.80
GU	1.040
M	1.820
JGL	2.530
Jib Area	19.786
JSA + MSA	52.74

Measured / Calculated	Meas Val	Base Val	Reference Only	
			Meas - Base	PD- Percent Difference
Beam	2.850	3.130	-0.280	-0.090
Meas Freeboard - R	2.84	1.001	-0.153	-0.153
Meas Draft	2.098	2.163	-0.065	-0.030
Meas/Calc VCG	-0.207641	-0.435	0.227	-0.523
Meas Cr Wt - CW	449	384	65.0	0.169
Displ Dempty	1640	1676	-36	-0.021
USA	54.044	57.6	-3.57	-0.062
SPINb	107.102	110.4	-3.34	-0.030
Rig Height	13.020	13.77	-0.750	-0.054

KWT	641.0
KVCG	-1.870
HCGic	0.496
HWTic	921.4
VCG-comp	-0.33
VCG-incl	

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

Ayso	
SLU	14.8
SLE	13.28
AMG	9.14
ASF	9.21
AYSO	107.10

15.10958 MGMH 6.135 < ORC-RS 109.1
 MGLH 3.073 "
 MGUH 9.201 "
 MGTH 10.783 "

Final Calculation		
Length	L	8.6900
Age Plus Pre HPR	AGEc	1.0000
Beam	BMc	0.9972
Freeboard	FRc	1.0000
Draft	DRAc	0.9986
VCG	VCGc	0.9834
Crew Factor	CFc	1.0107
Displacement	Demptyc	1.0025
Upwind Sail Area	USAc	0.9926
Spinnaker Area	SPAc	0.9981
Rig Height	RHC	0.9935
Robust Mast	RMASTc	1.0000
Appendage	APc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	0.9900
Preliminary Rated Length == >		8.2588
Rated Length Lower Limit == >		8.2555
Final Rated Length ===== >		8.2588

TCF 0.8475
 Seconds per mile 651.3

RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	
VCG Weight	COMPONENT WEIGHTS

Final Rating is in Units of Length
 TCF is calculated from the Final Rating by the formula:
 $TCF = (L/12.2)^{4.424}$
 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) wizard@fastisfun.com
 Jim Teeters (Technical) jim@tytech.org
 Dobbs Davis (Communications) dobbs@hprsailing.org



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