

# HIGH PERFORMANCE RULE V.4h1 2014



Boat Name:	<b>TRUE</b>
Class:	Kernan/Courouble 47
Certificate:	Quantum Key West
Sail Number:	USA 60206
Issue Date:	1/19/15 14:02

Owner: Leo Vandenthillart

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

Certificate Fee: **\$376.16** (\$26.25/m LOA)  
Change Fee: **\$0.00**

Hull	
LOA	14.330
FO	0.04
Y	0.1
Age Date	2011
BM	4.190
FF	1.387
FBI	1.244
FA	1.133
DRA	3.328
CW	1090
Dempty	6103
Pre HPR	0.012

Spars	
J	5.49
P	20.414
E	6.93
IG	19.66
ISP	22.372
BAL	0
BD	0.29
BAS	1.712
FSP	0.07
CPD	0.135
CPW	1
SWA	15.11
MWT	207.7
MCG	7.922
BWT	32.000
BCG	2.767

Mainsail	
HB	0.2
MGT	1.71
MGU	2.8
MGM	4.43
MGL	5.78
Meas Main	85.13
Rated Main	86.95
Jib	
Jib luff	19.68
LPG	5.740
LP	5.81
JH	0.160
JGT	0.890
JGU	1.610
JGM	3.000
JGL	4.290
Jib Area	59.447
JSA + MSA	146.39

0.39 57.09 = JSA min  
0.44 64.41 = JSA max

Runners	
Runners	0
Spreaders	2
TPS	8.330
TPSmax	8.328
TPS Excess	0.002

Ayso	
SLU	24.97
SLE	20.24
AMG	13.26
ASF	12.22
AYSO	246.00

15.1096 **MGMH** 10.535 < ORC-RS 109.1  
**MGLH** 5.291 "  
**MGUH** 15.737 "  
**MGTH** 18.261 "

				Reference Only	
Measured / Calculated	Meas Val	Base	Base Val	Meas - Base	PD- Percent Difference
Beam	4.190	Bmaxb	4.198	-0.008	-0.002
Meas Freeboard - FR	1.255	FRb	1.255	0.000	0.000
Meas Draft - DRA	3.328	DRAb	3.260	0.068	0.021
Meas/Calc - VCG	-0.884	VCGb	-1.007	0.123	-0.123
Meas Crew Wt - CW	1090	CWb	989	101.0	0.102
Displ - Dempty	6103	Demptyb	5920	183	0.031
USA	146.394	USAb	141.6	4.83	0.034
Spinnaker	246.000	SPINb	234.6	11.36	0.048
Rig Height	22.372	RHb	21.36	1.011	0.047

Final Calculation		
Length	L	14.2900
Age Plus Pre HPR	AGEc	0.9802
Beam	BMc	0.9999
Freeboard	FRc	1.0000
Draft	DRAc	1.0009
VCG	VCgc	0.9911
Crew Factor	CFc	1.0014
Displacement	Demptyc	0.9959
Upwind Sail Area	USAc	1.0059
Spinnaker Area	SPAc	1.0056
Rig Height	RHc	1.0073
Robust Mast	RMASAc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	1.0000
<b>Preliminary Rated Length == &gt;</b>		<b>13.8772</b>
<b>Rated Length Lower Limit == &gt;</b>		<b>12.5752</b>
<b>Final Rated Length ===== &gt;</b>		<b>13.8772</b>

**TCF** **1.0561**  
Seconds per mile **522.7**

## RULE WARNINGS / FAILURES

IG	
LP	
TPS	<b>TPS EXCEEDS MAX, 4 x EXCESS ADDED TO AMG &amp; ASF</b>
MIN RATED LENGTH	
VCG SOURCE	<b>AVERAGE OF COMPONENT WEIGHTS AND INCLINATION</b>

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	
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