

## 2023 PHRF-NB Membership/Rating Certificate

This certificate expires on April 30, 2024, or upon change of ownership, whichever comes first.

**Certificate status: Published**

Ratings	
56	65
Spinnaker	Non-Spinnaker

### Administrative Data

<b>Name:</b>	John Lanigan
<b>Address:</b>	Privacy Protected
<b>Email:</b>	
<b>Primary Phone:</b>	
<b>Secondary Phone:</b>	
<b>Yacht Club:</b>	Eastport Yacht Club Annapolis MD

### Yacht

<b>Yacht Name:</b> Divide by Zero	<b>Sail Number:</b> USA 42707
<b>Designer:</b> Frers	
<b>Manufacturer:</b> Carrol Marine	<b>Model:</b> FRERS 45
<b>Hull Serial Number:</b> CIR45007F090	<b>Date Manufactured:</b> 1990
<b>Other Ratings:</b> ORC, PHRF of the Chesapeake	<b>Date Last Rated:</b>

### Boat Measurements

<b>I:</b> 61.25	<b>J:</b> 17.2	<b>LOA:</b> 45
<b>P:</b> 54.3	<b>E:</b> 19	<b>LWL:</b> 35
<b>ISP:</b> 61.49	<b>SPL:</b> 0	<b>Draft:</b> Max 8.9
<b>Py:</b>	<b>Ey:</b>	
<b>Beam:</b> 13.9	<b>Displacement:</b> 21868	
<b>Rig Type:</b> Sloop	<b>Rig:</b> Masthead	
<b>Keel Weight:</b> 9600	<b>Keel Material:</b> Lead	
<b>Composite Rigging:</b> no	<b>Other Ballast:</b>	
<b>Mast Material:</b> Aluminum	<b>Spinnaker Type(s):</b> Asymmetrical	
<b>Asymmetrical Spinnaker Tacked To:</b> bow		

### Sails

Headsails to be used (LP%)		Mainsail Measurements	
<b>Headsail 1</b>	135	<b>MHB</b>	0.44
<b>Headsail 2</b>	105	<b>MUW</b>	3.28
<b>Headsail 3</b>		<b>MTW</b>	6.07
<b>Headsail 4</b>		<b>MHW</b>	11.02
		<b>MQW</b>	15.16

### Spinnakers to be used

Spin #	JC	SMG	Foot	Luff	Leech
<b>Spin 1</b>	18.7	33.23	29.53	65.78	58.23
<b>Spin 2</b>	18.7	28.6	32.81	61.35	55.77
<b>Spin 3</b>					
<b>Code 0</b>					

**Headsail Credit:** Roller Furling

### Variables

<b>Engine:</b> Inboard	<b>Prop. Type:</b> Feathering
<b>Prop. Install:</b> Exposed Shaft	<b>Rudder:</b> Spade
<b># of Blades:</b> 3	<b>Keel:</b> Fin Keel

### Comments/Modifications

2021- Mainsail roller furler no adjustment. Mainsail Adj +3, Oversized Spin pole -3 Non Spin, Sym spin +3.  
2023- Max genoa 135, roller furling, asym only asym area -2 plus asym install +13 - +11, No pole No sym spin.

### Committee Use Only

PHRF #: 17270			
<b>Base Rating</b>	33	<b>Non-Spin Adj.</b>	20
<b>Genoa Spin Adj.</b>	6	<b>Genoa Non-Spin Adj.</b>	6
<b>Mainsail Adj.</b>	3	<b>Furling Adj.</b>	3
<b>Spin. Area Adj.</b>	11	<b>Whisker Pole Adj.</b>	0
<b>Prop. Adjustment</b>	0		
<b>Mast Adj.</b>	0	<b>Misc. Adj.</b>	0
<b>Committee Signature</b>	<b>Date</b>		
Katherine Rotsky	2023-04-18		