

HIGH PERFORMANCE RULE V.4h1 2014



Boat Name: **SWEDISH FISH**
 Class: **C & C 30**
 Certificate: **Annapolis Fall Regatta**
 Sail Number: **USA 30001**
 Issue Date: **10/30/14 17:38**

Owner: **Mary Ewenson**

Owner Signature: _____

Certificate Fee: **\$240.19** (\$26.25/m LOA)
 Change Fee: **\$0.00**

| Hull | Value |
|-----------|-------|
| LOA | 9.150 |
| FO | 0.01 |
| Y | 0.04 |
| INTRODUCT | |
| Age Date | 2014 |
| BM | 2.980 |
| FF | 1.086 |
| FBI | 0.993 |
| FA | 0.715 |
| DRA | 2.255 |
| CW | 525 |
| Dempty | 1875 |
| Pre HPR | 0.000 |

| Spars | Value |
|------------|--------|
| J | 3.44 |
| P | 12.752 |
| E | 4.33 |
| IG | 12.438 |
| ISP | 14.249 |
| BAL | 0.157 |
| BD | 0.133 |
| BAS | 1.312 |
| FSP | 0 |
| CPD | 0.1 |
| CPW | 1 |
| SWA | 1 |
| MW | 8 |
| CG | 4.9 |
| B | 0.000 |
| RC | 2.043 |
| Runners | 0 |
| Spreaders | 2 |
| TPS | 5.672 |
| TPSmax | 6.155 |
| TPS Excess | 0.000 |

| Mainsail | Value |
|------------|--------|
| HB | 1 |
| MGT | 1.47 |
| MGU | 2.11 |
| MGM | 3 |
| MGL | 3.66 |
| Meas Main | 36.32 |
| Rated Main | 37.27 |
| Jib | |
| Jib luff | 51 |
| LPG | 3 |
| LP | 3 |
| JH | 0 |
| JGT | 0.90 |
| GU | 1.120 |
| GU | 2.050 |
| JGL | 2.920 |
| Bo Area | 24.195 |
| JSA + MSA | 61.47 |

| Measured / Calculated | Meas Val | Base Val | Reference Only | |
|-----------------------|----------|----------|----------------|------------------------|
| | | | Meas - Base | PD- Percent Difference |
| Beam | 2.980 | 3.218 | -0.238 | -0.074 |
| Meas Freeboard - R | 2.93 | 1.022 | -0.090 | -0.088 |
| Meas Draft | 2.255 | 2.253 | 0.002 | 0.001 |
| Meas/Calc VCG | -0.156 | -0.484 | 0.328 | -0.678 |
| Meas Cr Wt - CW | 525 | 435 | 90.0 | 0.207 |
| Displ Dempty | 1875 | 1920 | -45 | -0.023 |
| USA | 61.466 | 63.5 | -2.00 | -0.032 |
| SPINb | 118.862 | 119.2 | -0.33 | -0.003 |
| Rig Height | 14.249 | 14.42 | -0.167 | -0.012 |

| | |
|----------|--------|
| KWT | 0.0 |
| KVCG | 0.000 |
| HCGic | 0.545 |
| HWTic | 1791.4 |
| VCG-comp | 0.000 |
| VCG-incl | -0.1 |
| RUD2 | N |
| PSP | Y |
| AC | 0 |
| HDHM | 0 |
| SPHM | 0 |
| EOSC | Y |

| Ayso | Value |
|------|--------|
| SLU | 16.13 |
| SLE | 14.07 |
| AMG | 9.44 |
| ASF | 9.47 |
| AYSO | 118.86 |

| Final Calculation | | |
|-------------------------------|---------|--------|
| Length | L | 9.1500 |
| Age Plus Pre HPR | AGEc | 1.0000 |
| Beam | BMc | 0.9972 |
| Freeboard | FRc | 1.0000 |
| Draft | DRAc | 1.0000 |
| VCG | VCGc | 0.9830 |
| Crew Factor | CFc | 1.0170 |
| Displacement | Demptyc | 1.0028 |
| Upwind Sail Area | USAc | 0.9960 |
| Spinnaker Area | SPAc | 0.9998 |
| Rig Height | RHC | 0.9986 |
| Robust Mast | RMASTc | 1.0000 |
| Appendage | APc | 1.0000 |
| Engine-Propeller | EPc | 0.9829 |
| Construction Cost | CCc | 0.9900 |
| Preliminary Rated Length == > | | 8.8505 |
| Rated Length Lower Limit == > | | 8.6925 |
| Final Rated Length ===== > | | 8.8505 |

15.10958 MGMH 6.660 < ORC-RS 109.1
 MGLH 3.329 "
 MGUH 10.006 "
 MGTH 11.698 "

| | |
|------------------|--------|
| TCF | 0.8728 |
| Seconds per mile | 632.5 |

RULE WARNINGS / FAILURES

| | |
|---|--|
| IG | |
| LP | |
| TPS | |
| MIN RATED LENGTH | |
| 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:
 $TCF = (L/12.2)^{4.424}$
 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
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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