STONEWAYS VPRS

Rating Certificate

Yacht	Witch IV	Rig	Bermudian Sloop
Sail number	60	Design	Hawk 20
TCC	0.808	Series / built	1993 / 1995
No spinnaker TCC	0.784	Default crew limit	5 people

Performance indicators

Mainsail area	13.59 m ²	Sailing weight	1172	kg
Mizzen area	m²	Displacement / length	207	(sailing weight)
Upwind headsail area	7.49 m ²	Sail area / wetted surface	2.38	(main + u/w headsail)
D/wind headsail area	20.88 m ²	Sail area / displacement	19.28	(main + u/w headsail)

Hull			source
Hull Length	LH	6.10	m P
Bow overhang	ВО	0.70	m E
Stern overhang	so	0.20	m E
Waterline length	LWL	5.20	m C
Stern height	Y	0.06	m E
Beam	MB	2.26	m P
Topside overhang	TSO	0.19	m E
Freeboard at mast	FBI	0.60	m E
Draught	Τ	1.30	m P
Empty weight	EW	841	kg P
Fixed ballast weight	KW	392	kg P
Moveable ballast		None	

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Appendages & propeller				
Keel type		Z4P1F1S2		
Keel depth	KD	1.10 m	E	
Keel chord	KC	0.35 m	Ε	
Rudder type		Transom H	ung	
Rudder depth	RD	0.80 m	Ε	
Rudder chord	RC	0.25 m	E	
Propeller type		None		
Propeller blades	PRN			
Propeller diameter	PRD	m		

Mizzen			
Mizzen hoist	PY	m	
Mizzen foot	PE	m	
Staysail luff length	LLY	m	
Staysail luff perp	LPY	m	

Rig				
Spar material		Aluminium alloy		m alloy
Forestay length	FL	7.08	m	E
Foretriangle base	J	2.12	m	E
Mainsail hoist	P	8.05	m	E
Mainsail outhaul	E	2.89	m	E

Main sail			
Half width	MHW	1.85 m	S
Three quarter width	MTW	1.06 m	S
Upper width	MUW	0.59 m	S
Construction		Woven	
Reefing		Slab	
			,

Upwind headsail			
Luff length	HLU	6.24 m	S
Luff perpendicular	HLP	2.39 m	S
Half width	HHW	1.20 m	S
Three quarter width	HTW	0.61 m	S
Foot height	HFH	0.20 m	E
Construction		Woven	
Reefing		Change Sail	

			onunge oun	
Downwind he	adsail			
Т	ack type		Spinnaker po	ole
Pole / tad	ck length	STL	2.38 m	Ε
* Lu	uff length	SLU	6.54 m	S
* Leed	ch length	SLE	6.54 m	S
*	lalf width	SHW	3.83 m	S
* Foot width		SFL	3.91 m	S
* OR	Area	SPA	m²	

Measurement source: A=Authenticated; O=Owner measured; S=Sister vessel; P=Published; C=Calculated System data source: D=Database derived; E=Estimated TCC calculated on 18/01/2023 at 14:05:24

IMPORTANT: see notes on page 2 for appropriate use and validity

Certificate notes

1. Correct use of the published ratings

Multiply the elapsed time by the TCC to obtain corrected time.

The TCC is calculated for the declared sail plan, which may or may not include a downwind headsail (spinnaker). For boats without a downwind headsail the words "(no spinnaker)" appear after the TCC.

Boats with a full sailplan also have a "no spinnaker TCC" for use only when racing in a non-spinnaker class.

If spinnaker and non-spinnaker boats race together, non-spinnaker boats will have an advantage on upwind legs, and a disadvantage off the wind.

2. Data quality

The fairest ratings will result from accurate measurement; ratings calculated using a significant amount of estimated and published data are far more likely to be out of line with expectations than those using measured and sister ship data. Owners must notify the rating office of any changes or errors in the rating data.

3. Applicability

This certificate is issued for the sole purpose of correcting elapsed times recorded in yacht races. It is not to be used for any other purpose.

4. Validity

Unless stated to the contrary, or superseded, this certificate is valid until the end of the calendar year in which it was issued. The validity can be checked by referring to the certificates published at: www.vprs.org/ratings.html

Additional information

Empty weight includes outboard which must be carried when racing.

6. Stability

An SSS base value provides a guide to the stability of a boat but does not guarantee safety or freedom of risk from capsize or sinking. The safety of a boat is the sole responsibility of the skipper who must ensure that the boat is fully found, thoroughly seaworthy, and operated by a crew sufficient in number and experience who are physically fit to face bad weather. The SSS base value does not constitute any warranty as to the seaworthiness of any boat or the safety of any gear and shall not limit the absolute responsibility of the skipper of the boat.

Guard rails fitted No

Dayboat Yes

SSS base value 3 Valid only for data on this certificate.