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**CLUB SWAN 42.009**

**UXORIOUS**

**LAUNCHED FEB 2007**

(Name to be retained by Owner)



Sister ship photo

In the spring of 2005, the New York Yacht Club approached several designers requesting a proposal for a new One Design yacht for the Club members and other sailors to enjoy traditional Corinthian racing. The boat was to be fast, fun to sail and rate well under the IRC Rule.

Nautor's Swan teamed up with the German Frers design team to present their proposal. After a thorough investigation of all of the submissions, the NYYC OD Committee selected the Nautor/Frers team to design and build the new One Design yacht. Thus the birth of a new Swan!



The new yacht is designed to take full advantage of the latest thinking in design and construction. The yacht is light and extremely fast. It features for the first time on any Swan a retractable bowsprit. This allows for a very large and easy to handle downwind sail inventory.

As per requirement of the NYYC OD Committee, it is a racer/cruiser with the ability to win races and provide for enjoyable cruising. Nautor produces the yachts with a bright and airy interior. They are fitted with a complete inventory of standard equipment, provide a choice of two interior layouts, and offer an intelligent list of options.

Uxorious (excessively submissive or devoted to one's wife) is in excellent condition having been moth-balled for the 2009 season. Previously she was shipped to the US for the NYYC Regatta and has competed in a number of IRC races here in the UK. Please note that the rig has been replaced – this was as a result of an unsecured rigging pin coming out on a particularly windy day.

## Technical Details

General (taken from standard factory specification)

Length overall:	42.58 ft	12.98 m
Length of waterline:	37.04 ft	11.29 m
Beam:	12.89 ft	3.93 m
Draught (light):	8.86 ft	2.70 m
Ballast:	7046 lbs	3196 kg
Displacement (light)	15983 lbs	7250 Kg

## Technical Specification

Fuel:	39.6 US	gal140 ltr
Water:	84.5 US	gal320 ltr
Hot water:	5.30 US	gal20 ltr
Holding Tank	15.9 US	gal60 ltr
DC Power	12 V320 Ah	
Engine - Volvo Penta:	40 SHP	29 kW

## Rig and sail dimensions

IG:	59.06 ft	18.00 m
J:	16.34 ft	4.98 m
P:	56.56 ft	17.24 m
E:	18.95 ft	5.78 m
ISP	62.96 ft	19.19 m

## Sail areas

Fore triangle:	485 sq.ft	45.08 m <sup>2</sup>
Main sail:	661 sq.ft	61.40 m <sup>2</sup>
Jib:	514 sq.ft	47.80 m <sup>2</sup>
Spinnaker:	1991 sq.ft	185 m <sup>2</sup>

**Asking price: Euros 395,000 including VAT Location: USA**

Irving and Lilley specification for ClubSwan 42.009 page 2 of 18

19/12/2011

Nautor Brokerage – United Kingdom and Ireland –

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## Factory specification and extras

### Laminate

Infusion moulded E-glass / vinylester laminate with carbon reinforcements in selected areas. Sandwich with closed cell foam cored hull, with higher density foam in bottom and slamming areas.

Fibre reinforcements are multiaxial and unidirectional.

Structural bulkheads are of veneered sandwich construction or marine grade waterproof plywood. Watertight bulkhead at bow, drained fore peak.

Bottom stiffeners reinforced with unidirectional carbon and multiaxial glass fibre in selected areas.

GRP engine beds.

Stainless chainplate deck fittings

Topsides gelcoat, white hull with RAL 5003 dark blue stripes.

Epoxy coated bottom, sprayed finish, colour grey RAL 7005.

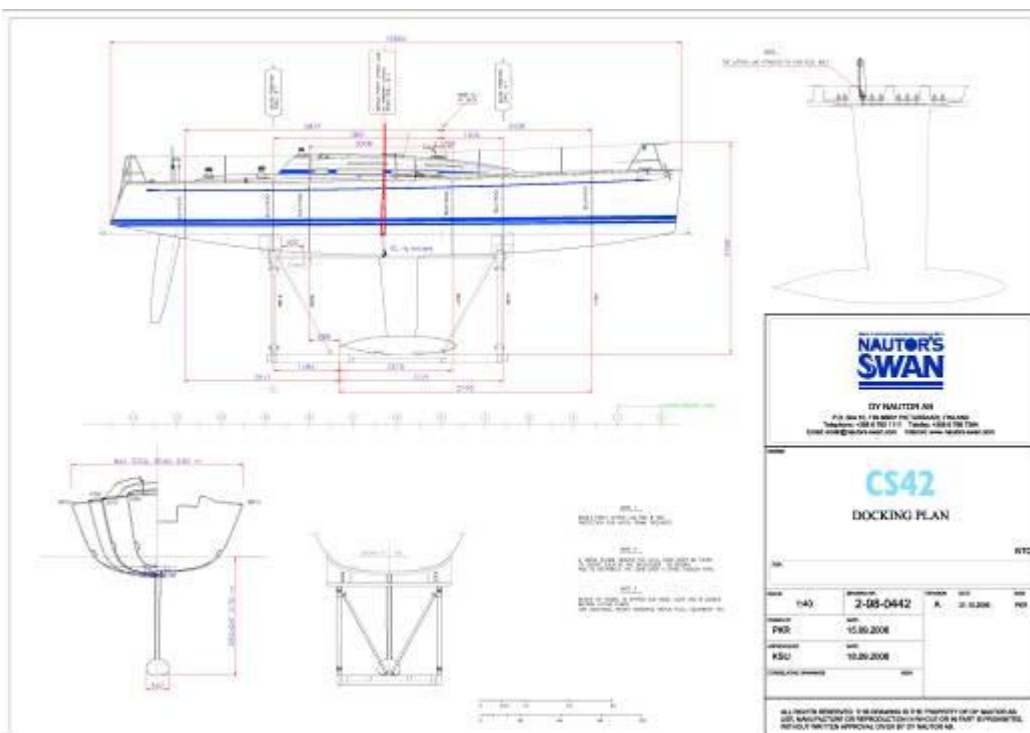
### Keel

T-keel, steel fin with Antimony alloyed lead bulb and with upper flange recessed into hull. The fin is bolted to hull with high tensile steel bolts.

Epoxy coated

Faired to class tolerances

Single-point lift



### **Steering system**

Foam filled rudder blade of GRP from female mould. Currently removed and in forward cabin.

Carbon/epoxy stock

Epoxy coated

An aluminium quadrant, wire steering with chain and sprocket. The rudder bearings are self-aligning. Roller bearing sheaves

Twin composite pedestal integrated with cockpit sole.

There are twin carbon steering wheels 935mm

A lightweight aluminium emergency tiller.

### **Deck**

Infusion moulded E-glass vinylester laminate sandwich deck with glass skins and closed cell foam core.

High density core or compact laminate under winches and deck hardware as appropriate.

Single colour white gelcoat with moulded in non-skid

### **Winches and windlasses**

Winches Harken aluminium alloy:

Primary winches 2 x Harken B530TCR three speed top cleat

Mainsheet winches B 53. 2STA

Cabin top winches B 44. 2STA

### **Sail handling systems**

Harken aluminium jib sheet tracks with purchase adjuster system

Harken aluminium main sheet track

Harken halyard lead blocks

Single-line jib inhauler system

Spinlock clutches

Bowsprit and furler controls lead aft under deck

Pad eye both sides for outboard sheeting

Crossover sheave for halyards on both sides

Halyards and reef lines are lead aft to the cockpit below deck

### **Deck fittings**

The pushpit, pulpit and stanchions are of stainless steel.

The life lines are 600 mm high, with lower life lines at minimum ISAF/ORC height. There is one pair of mooring cleats at bow.

Built-in GRP foot chocks for helmsman/tactician and mainsheet trimmer and built-in GRP foot chocks at centerline in cockpit.

There is a boarding ladder aft and a flagpole holder on stern.

Mast collar with rubber

The grab rails are on each side of coach roof and companionway.

Headstay attachment on stemhead (below deck for Reckmann furler)

Two folding pad-eyes for harness attachment in cockpit.

Safety lines attachment to pulpit and pushpit base.

ISAF/ORC regulation toe rails (30 mm high) moulded in on the foredeck.

### **GRP mouldings and vents**

Deck stowage on foredeck and in lazarette  
Lockers for storage in cockpit coamings on both sides  
Locker for storage in port side aft coaming  
Life raft stowage on deck at companionway (GRP cover)

### **Hatches and windows**

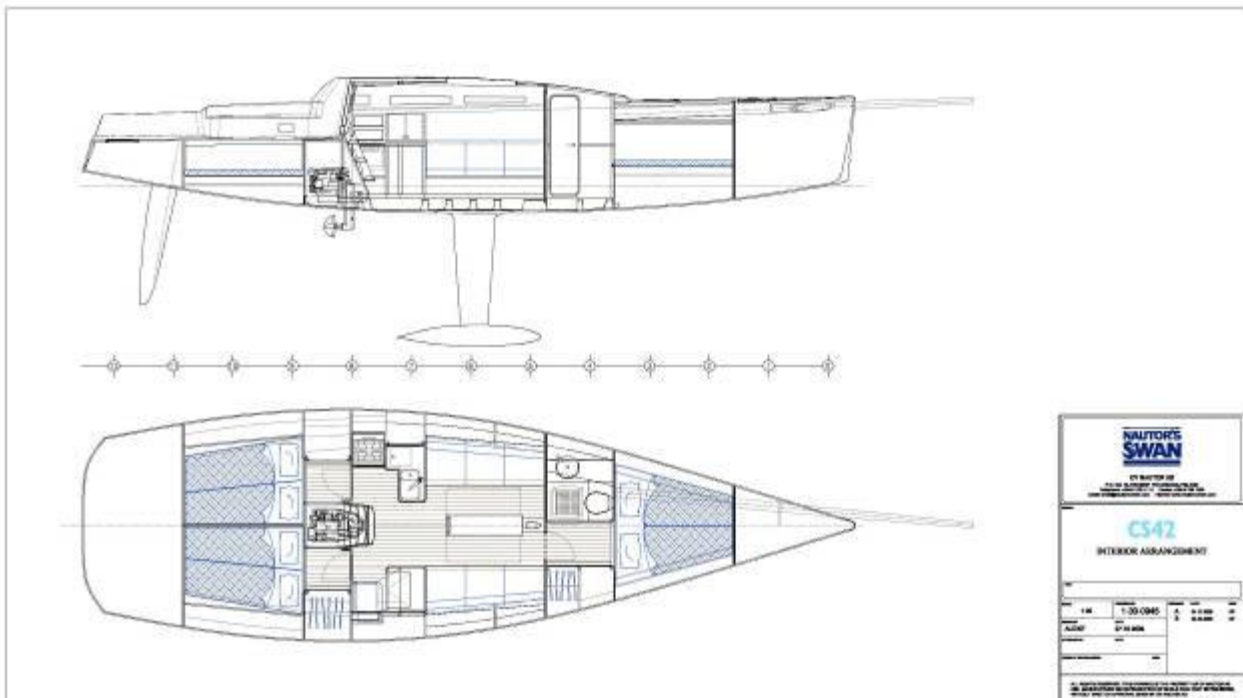
Anchor stowage hatch  
One foredeck hatch Lewmar size 60  
One saloon overhead hatch Lewmar size 44  
One ventilation hatch in head Lewmar size 03  
Four fixed coaming windows  
Two openable size 1 coaming portholes - in aft, galley and navigation area  
Four openable size 1 coaming portholes in cockpit for aft cabins  
One hatch to lazarette  
Main companionway sliding hatch garage flush with coach roof.  
The main companionway consists of removable plexiglass drop boards with designated stowage.

### **Interior**

Interior finish: teak with satin white GRP/canvas lining  
Lockable plywood floorboards covered with bamboo veneer  
Overhead liner GRP moulding, bonded in place. Removable vinyl cover panels will provide access to deck hardware  
Foam mattresses over Scandi-Flex battens  
Curtains for side windows and handrails throughout  
Canvas lee cloths for lower saloon and aft cabin berths  
Transparent PVC cover for floorboards



sister ship photo



### **Forward cabin**

Double berth with stowage under  
Removable support structure for racing (currently all removed and in store)  
Reading lights above the berth  
Locker with shelves and doors  
Shelves on hull sides

### **Aft cabins**

There are aft cabins on port and starboard side (mirror image)  
Double berth  
Stowage under berth  
Shelf on hull side  
Hanging locker in starboard side cabin, locker with shelves in port side cabin

### **Saloon**

Folding leaf table  
Settee backrests fold up and convert into Pullman berths, storage behind backrests  
Tanks below settees

### **Galley**

Two-burner alcohol stove with oven, protected by stainless steel guard  
Stainless steel double sinks with fresh water tap  
Formica counter tops and sink cover  
Drawer and lockers  
Top loading refrigerator 105 l gravity drained with valve  
Garbage bin

### **Navigation area**

Forward facing chart table with seat  
Chart stowage under table top  
Chest of drawers

### **Electronics**

1 x Hercules CPU  
Hercules Handbook 1.00  
2 x H3000 FFD Hercules  
1 x H3000 GFD Hercules (Monochrome)  
4 x H3000 20/20 Display - Red  
1 x H3000 Analogue: Magnified AWA  
SEN-DPT-Depth Transducer & Housing 1.00  
SEN-SPD-HP Speed Transducer & Housing 1.00  
VMHU 42" 1.00  
Barometric Pressure Sensor x 1.00  
HALCYON Gyro ACP2 Add-On Pack x 1.00  
RAY54E VHF(Charcoal) UK Program x 1.00  
Antenna DGPS 5HZ LEICA x 1.00  
TRON Custom MJB 1.00  
TRON Antenna with LLOSS CO-AX x 1.00

BG Remote Vision System x 1.00  
TRON Load pin system 5/8 pin x 1.00  
BH DFW v8 FOR (C-Map Sub) Dongle  
1 x TRON Panasonic Deck Screen  
1 x TRON 8" TFT Screen  
HALCYON 2000 Compass x 1.00  
BG Winning Tides Upgrade x 1.00  
C-MAP Chart M-EW-C201.10 x 1.00  
There are two SUUNTO magnetic compasses, mounted on each steering pedestal.  
A VHF antenna is in mast top

### **Toilets, showers general**

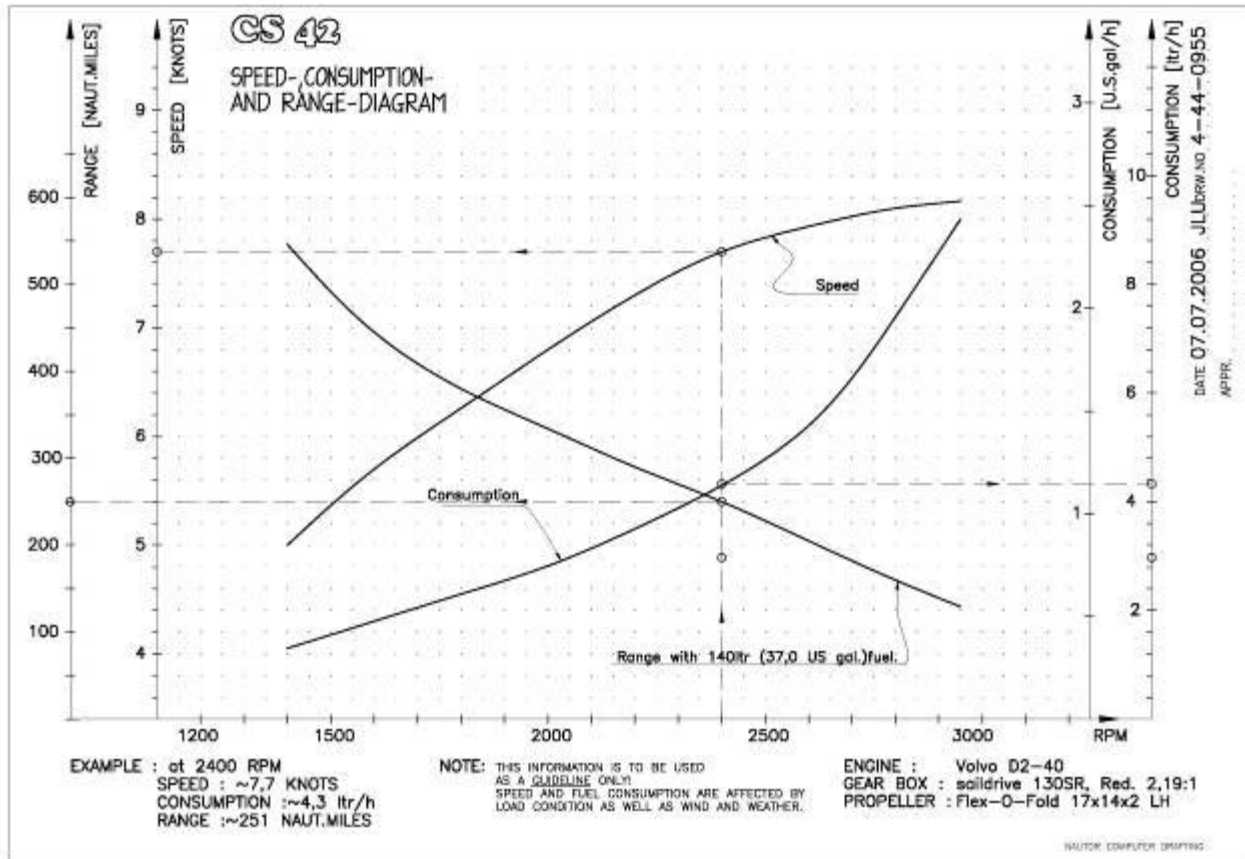
White GRP interior module with wash basin  
Lockers outboards and doors in teak  
Fresh water tap, shower, mirror and waste container

### **Engine space**

Removable front part of engine box incorporates teak ladder  
Service hatches  
Engine control panel recessed in cockpit  
25 mm sound proofing

### **Engine**

Volvo Penta D2-40 130 S marine diesel 29 kW 40 Hp



## Propulsion system

Sail drive 2.19:1 and 2-blade 17" racing folding propeller

## Fuel system

140 l fuel in two polyethylene tanks. Tank level indication for fuel.

## Plumbing & Ventilation

### Fresh water system

Fresh water 320 l in polyethylene tanks. Pressurised hot and cold water.  
Back-up foot pump for fresh water and Oras single lever mixing faucets.

### Sea water system

Flush mounted composite closing seacock for all through hull fittings below waterline.

### Black water system

Jabsco Marine toilet, using sea water for toilet flushing  
Y-valve in forward head, overboard discharge / holding tank.  
Flexible holding tank 55 l / 14.5 USg. Manual toilet discharging to holding tank. Tank emptied by hand pump or deck suction.

### Drainage system

Two manual and one electric bilge pump

### **Ventilation**

Engine space air inlet from deck

### **Refrigeration system**

Battery driven refrigeration unit

### **Electrical**

#### **AC-system**

Shore power 110 V AC system (220 V AC for EU boats)

30 Amp shore power cord and inlet

110 V outlet at chart table (220 V for EU boats)

GFI duplex receptacle

Inverter / battery charger

#### **Earthing system**

Bottom of mast, shrouds and stays are grounded to the keel.

#### **DC-system**

12 V DC insulated return system for lighting and general service

Main switchboard 12 V DC outboard of chart table

Service battery of AGM type 12 V 2 x 160 ah in saloon table base

12 V outlet at chart table.

#### **Engine and generator DC**

Starting battery 12 V 50 Ah

115 A alternator with an electronic sensor

#### **Electrical panels**

Main distribution panel contains 12 V DC gauges and 110 V AC gauges and circuit breakers, lighted.

#### **Lights**

##### **Navigation lights:**

Red/green LED lights on pulpit

White stern LED light on pushpit

Steam light / deck light on forward side of mast

Recessed halogen dome lights overhead

Flexible chart light at navigation station

Red light above navigation station and in galley

#### **Electronics**

There are two SUUNTO magnetic compasses, mounted on each steering pedestal.

A VHF antenna is in mast top

There is pre-wiring for B&G electronics

#### **Rig**

One-piece seamless carbon fibre spar from Hall Spars & Rigging

Hall already builds the one-design masts for the Swan 45 and Swan 601, in addition to many custom boats built by Nautor. Hall Spars & Rigging is located a few short miles from the NYYC base in Newport, RI, and the Halls - Eric and Ben Hall - are long-time NYYC members.

The Club Swan 42 carbon mast is supplied with a clear-coat finish. The 15/16ths rig is set up for fractional upwind sails and masthead spinnakers. Two sets of swept-back spreaders support the runner-less rig, and the Hall-Antal mainsail luff track accepts either a boltrope or sliders. The mast step facilitates fore-and-aft adjustment with a hydraulic mast step to further enhance the tuning process. Hall designed and constructed the carbon-fibre bowsprit system. Standing rigging is Navtec rod with an aramid backstay, and Hall also supplies running rigging.

Clear-coated carbon fibre double spreader fractional rig. Windex with light and one coaxial cable

Mechanical vang

Carbon retractable bowsprit in waterproof garage

All blocks and winches for asymmetrical spinnaker

### **Mast**

Mainsail track for all OD racing

Combined mainsail luff groove and track system

### **Booms and poles**

Black painted aluminium boom and aluminium spreaders swept 20 degrees

Single line reefing arrangements for two reefs

### **Standing rigging**

Navtec rod rigging with discontinuous shrouds, Series 500 deck turnbuckles.

### **Running rigging**

Complete basic race set-up running rigging package.

Mainsheet double ended

Two spinnaker halyards at masthead and hounds

Flag halyard on starboard spreader

### **Furler**

Recessed Reckmann RS3000-S2 recessed carbon furler with dual groove carbon foil, integrated adjuster with 60mm stroke, stroke indicator

### **Rig hydraulics**

Holmatro hydraulic backstay system with two carbon control panels in cockpit

Hall Spars hydraulic mast jack

### **Sails**

Original North training sails

Mainsail 3 dl

Code 1,2,3,4 Jibs

Code 1,2,4 A-sails

Dacron Storm Jib and Trysail

The above sails are not guaranteed as to their serviceability

Uxorious Quantum Sails

Q2007 Main grey ds

Q 2007 Code 1 Grey Zip

Q2007 Code 2 Grey Zip

Q2007 Code 3 Grey Zip

Q2007 Code 4 Grey Zip

A5 Aspi Grey Brick

2007 Q Main B Grey Sausage

2007 Q Code 2 B Grey Zip

2007 Q Code3 B Grey Zip

2007 Q A2 Aspi Grey Brick

2007 Q A4 Aspi Grey Brick

Storm Jib Grey DS

Trisail Grey DS

### **Equipment**

Owner's Manual in English

### **Sailing gear**

Four winch handles, two of these double grips and two winch handle holders

### **Fire fighting equipment**

Remote control fire extinguisher in engine space

### **Spare parts and tools**

Assorted engine spare parts

Assorted engine tool kit

### **Other**

Flagpole

OD certification from builder

IRC measurement One design certificate

Canvas cover for steering wheels

Two canvas halyard tail bags by companionway

Boat cover, own cradle (to be moved to buyers cost) keel cradle.

Mast and Boom covers.

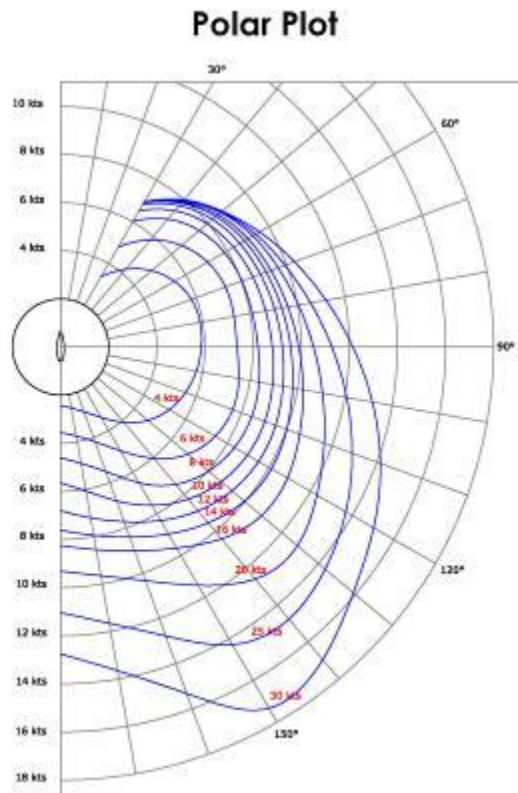
Cover for forestay

**A complete inventory will be available prior to contract, which will contain a list of all items to be included within the sale.**

## NOT INCLUDED IN SALE

Personal effects, including, personal tools, navigation equipment, cutlery, crockery, glassware etc.

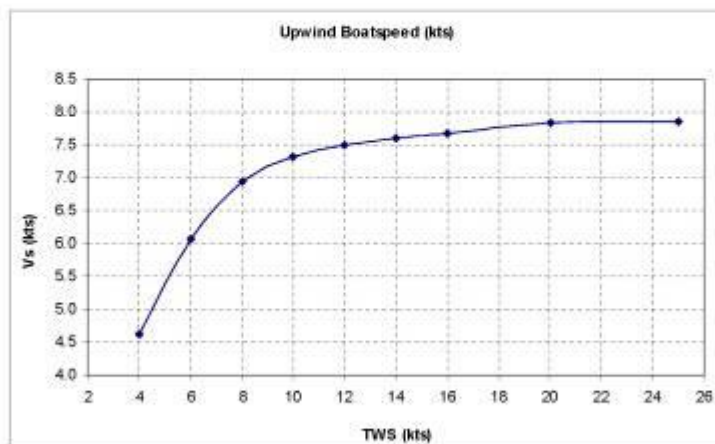
Draft #2 TJQ 15<sup>th</sup> September 2011. Not confirmed by owner.



## Upwind VMG Targets



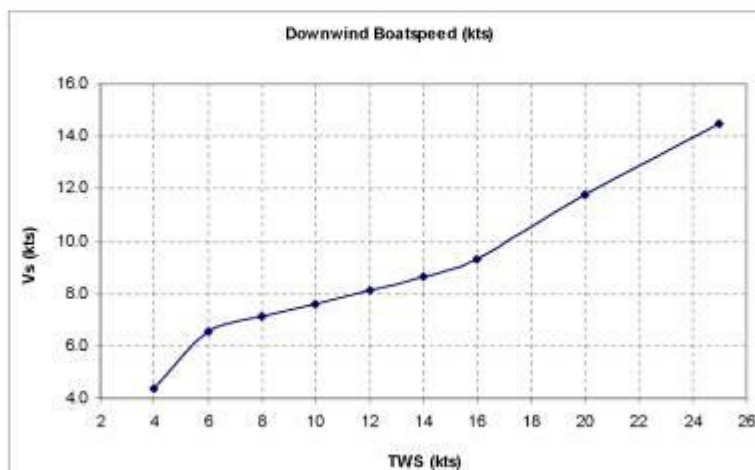
	TWS (kts)								
	4	6	8	10	12	14	16	20	25
Vs (kts)	4.62	6.07	6.95	7.32	7.50	7.61	7.68	7.83	7.86
TWA (°)	45.6	42.8	39.3	38.1	37.0	37.0	37.4	38.6	39.5
Vmg (kts)	3.24	4.45	5.38	5.77	5.99	6.08	6.11	6.12	6.07



## Downwind VMG Targets



	TWS (kts)								
	4	6	8	10	12	14	16	20	25
Vs (kts)	4.39	6.56	7.15	7.61	8.14	8.66	9.33	11.78	14.48
TWA (°)	137.6	136.2	144.7	152.8	154.2	155.8	152.1	147.7	152.7
Vmg (kts)	3.24	4.74	5.84	6.77	7.33	7.90	8.25	9.96	12.86



## Target Boatspeeds

Club Swan 42		TWS (kts)								
Best Vs (kts)		4	6	8	10	12	14	16	20	25
TWA (°)	32	3.55	5.01	6.24	6.74	7.03	7.13	7.15	7.11	7.03
	36	3.91	5.46	6.65	7.13	7.41	7.52	7.55	7.55	7.49
	40	4.25	5.86	7.00	7.47	7.74	7.86	7.91	7.95	7.91
	45	4.58	6.22	7.30	7.74	8.01	8.16	8.24	8.31	8.29
	52	5.17	6.80	7.72	8.13	8.41	8.62	8.77	8.91	8.95
	60	5.60	7.17	7.94	8.36	8.66	8.90	9.09	9.35	9.48
	70	5.89	7.38	8.09	8.51	8.78	9.04	9.29	9.60	9.78
	80	5.97	7.38	8.08	8.68	9.11	9.42	9.66	10.06	10.57
	90	5.80	7.14	8.01	8.64	9.10	9.48	9.84	10.49	11.28
	100	5.73	7.65	8.48	8.99	9.38	9.73	10.12	11.07	12.19
	110	5.58	7.64	8.51	9.11	9.58	10.03	10.59	11.66	12.89
	120	5.36	7.47	8.38	9.06	9.65	10.34	11.03	12.24	13.70
	135	4.61	6.75	7.85	8.60	9.22	9.87	10.91	13.09	14.66
	150	3.53	5.11	6.77	7.73	8.43	9.04	9.62	11.48	14.51
	160	2.91	4.27	5.55	6.92	7.75	8.40	8.97	10.18	12.69
170	2.54	3.71	4.88	6.04	7.17	7.91	8.54	9.63	11.64	
180	2.43	3.56	4.61	5.65	6.80	7.61	8.25	9.32	11.04	

**IRC Trial Certificates (2005)**

Base Draft = 2.70 m  
 Base Symmetric Spinnaker area = 151 m<sup>2</sup>  
 IRC TCC = 1.167

- Draft Optimization – Trial 2 / Draft: 2.60 m / TCC = 1.166
- Spinnaker Area Optimization – Trial 4 / SPA: 160.9 m<sup>2</sup> & STL: 5.78 m / TCC = 1.170
- Spinnaker Area Optimization – Trial 5 / SPA: 140.0 m<sup>2</sup> & STL: 5.4 m / TCC = 1.164

## Results

CLUB SWAN 42


- Optimum Draft : 2.70 m (as base)
- Optimum Symmetric Spinnaker Area : 161 m<sup>2</sup>
- Optimum STL (pole length) : 5.78 m
- TCC 2005 : 1.170
- Optimum Asymmetric Spinnaker Area (One Design): 185.0 m<sup>2</sup>
- Optimum bowsprit length – STL : 7.3 m

TCC 2006 results expected for mid February – IRC Rule has changed concerning how mainsail upper width (MUW) is rated

IRC Total Certificates (2005)

Optimum Draft & Spinnaker Area Optimum STL

February 2006







**All photos are sister ship photos.**

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