



# KNYSNA 440

**ANNEXURE A**

## **SAIL-AWAY SPECIFICATIONS**

<b>Naval architect</b>	:	Angelo Lavranos	
<b>Length overall</b>	:	13,45 m	44'
<b>Length waterline</b>	:	12,10 m	39' 8"
<b>Mast height above waterline</b>	:	19,0 m	62' 4"
<b>Beam</b>	:	7,20 m	23' 7"
<b>Draft</b>	:	0,95 m	3' 0"
<b>Displacement</b>	:	7,500 kg	7.5 tons
<b>Genoa</b>	:	50 sqm	538 sq ft
<b>Mainsail</b>	:	75 sq m	800 sq ft
<b>Engines</b>	:	2 x 21,3kw	2 x 29hp
<b>Water capacity</b>	:	1 x 400 lt	1 x 100 gal
<b>Fuel capacity</b>	:	1 x 400 lt	1 x 100 ga1
<b>Construction</b>	:	GRP Vacuum-bagged foam sandwich	

### **Hull, deck and bulkheads (GRP)**

* Vacuum bagged - hand laid-up foam core, quadriaxial non-crimp fabric, NPG gel coat, isophthalic resin throughout.	:	1
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### **Rudders & Steering**

* Balanced spade rudders, with special reinforcement	:	2
* 316 Stainless steel stocks & Vesconite bearings	:	2
* Tiller bar	:	1
* Destroyer type stainless steel wheel (EDSON)	:	1
* Direct stainless steel chain and cable drive	:	1
* Bulkhead steering system with brake	:	1

### **Engines Yanmar / Volvo 30HP**

* 29 hp Yanmar diesel sail drives, fresh water cooled	:	2
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### **Engine installation**

* Exhaust systems	:	2
* Exhaust blowers	:	2
* Morse engine controls	:	2
* Battery cables and connection	:	
* Exhaust anti-siphon valves	:	2
* Propellers Standard 2-blade fixed	:	2
* Engine beds and fitting	:	2
* Engine covers	:	2
* Instrument panels	:	2

### **Fuel Tank**

* GRP tank approximately 400 litres (100 gal) each	:	1
* Deck filler	:	1
* Fuel filter with water traps Racor	:	2
* Stop cocks	:	2
* Inspection hatch	:	1

### Water Tank

* GRP tank 400 litres (100 gal) each	:	1
* Deck fillers	:	1
* Inspection hatches	:	1

### Windows / Sliding panel door

* Non-scratch 10mm grey anti-sun armour plate glass to large areas		
* 6mm to balance, including panel door		

### Deck fittings

* Stainless steel pulpits and seats	:	2
* 750mm / 29.5 inches high double wire stanchions with guard wire	:	8
* Large mooring cleats	:	6
* Stainless steel hand rails	:	2
* Winch handle pockets	:	3
* Swimming ladder	Port-side	1
* Integral GRP targa bar and fixed bimini with hatch	:	1
* Mast gooseneck	:	1
* Cap shrouds	:	4

### Hatches and portlights

#### Lewmar Ocean

* Fitted with trim and fly screens arranged for cross ventilation		
* Size 54 (fwd cabins, library and galley)	:	6
* Size 30 low profile (saloon coach roof)	:	2
* Size 2 portlights (heads and galley)	:	6
* Size 50 (escape hatches)	:	2
* Size 20 (saloon and fwd cabins)	:	6
* Size 4 portlights (aft cabins)	:	2

### Winches

#### Lewmar aluminium self tailing

* Size 44 Lewmar	:	7
* Lock in handles	:	3
* Size 40 Lewmar	:	1
* Anchor windlass electric Lofrans 1000 which can be used to hoist main sail	:	1

### Main sheet system

#### Lewmar

* Traveller track	:	1
* Traveller controls and tackle 4 : 1	:	1
* Size 3 single block & becket	:	1
* Traveller car recirculating ball system	:	1
* Size 3 single blocks	:	4

**Genoa system**

**Lewmar**

* 1m Genoa tracks with stop ends	:	2
* Footblocks & jammer for roller furler	:	2
* Genoa cars	:	2

**Mast, spars and rigging**

**Sparcraft**

* Aluminium anodised mast with forward cross beam and compression strut	:	1
* Pro-furl / Harken furling gear	:	1
* Chainplates	:	2
* Mast plate	:	1

**Running rigging**

* Main sheet	:	1
* Genoa sheet	:	2
* Halyards; main, genoa, spinnaker, spare (Code Zero)	:	4

**Sails**

**Quantum / North**

* Main 75 m2 / 800 sq ft. cross cut, laminated fabric large roach fully battened with lazy jacks and stack pack	:	1
* Furling genoa 50 sq.m / 538 sq ft.radial cut, laminated fabric complete with UV strip and sea foam flattener	:	1

**Painting**

* Sign writing - professional		
* Interior paint - anti-fungal colour to owner's choice		
* 4 coats varnish to woodwork		
* Anti-fouling 2 coats epoxy primer and 2 coats ablative		

**Electrical**

* Marine combination DC / AC distribution board	:	1
* Cabin lights	:	26
* Navigation lights	:	3
* AC plug points	:	7
* Speakers - saloon	:	2
* Appropriately sized tinned silicone wire in conduits	:	
* Dimmers to saloon	:	1
* 12 volt plug points (1 external)	:	2
* 12 volt Radio/Tape/CD player	:	1
* Waterproof speakers - cockpit	:	2
* Link 2000 battery management system	:	1
* Inverter 2500 kw	:	1

**Batteries**

* 100 Amp hour semi-deep cycle engine battery - can be switched independently or together with house batteries	:	1
* 100 Amp hour semi-deep cycle house batteries	:	5

## Gas

* Solenoid valve	:	1
* Regulator	:	1
* 9 kg cylinder	:	2
* Gas detector (electronic)	:	1

## Navigation instruments (Raytheon integrated instruments)

* Raytheon 6000+ autopilot	:	1
* Raytheon ST60 Tridata (boat speed, depth & log)	:	1
* Raytheon ST60 wind module (wind speed and angle)	:	1
* Raystar 120 Sea Talk GPS TX plus display	:	1
* Magnetic bulkhead compass	:	1
* ICOM M601 VHF radio and aerial	:	1

## Anchorage and Mooring

* 25 kg CQR type anchor, 50m, 10mm chain, 50m 18mm anchor warp	:	1
* Mooring warps 16mm – 4 x 12m, 2 x 6m	:	6
* Para anchoring points in bows	:	2
* 10kg Danforth anchor, 10m 8mm chain, 30m 16mm warp	:	1
* Cylindrical fenders	:	6

## Plumbing

* Fresh water pressure pump	:	1
* Manual bilge pumps	:	2
* 40L calorifier with element and thermostat	:	1
* Grey water pressure pumps	:	2
* Accumulator tank	:	1
* Fresh water shower at transom (hot/cold)	:	1

## Internal joinery & finishes

- \* Cherrywood and Maple or similar wood. All construction in foam sandwich / marine ply and bonded to the hulls (8 cabin, 52 locker doors)

## Cabins

* Double cabins (2 en-suite) each with:	:	4
* Vanity table and seats		
* Cupboards and hanging space		
* Carpets (50%), teak and holly flooring the balance		
* Mattress covers, headboards and seat		

## Heads Depending on model

* Forward heads fitted with:	:	2
* Sitsbath / shower		
* Vanity cabinets		
* Moulded basins		
* Jabsco Manual toilets		
* Mid-ship heads fitted with:	:	1
* Shower		
* Vanity cabinets		
* Moulded basins		
* Jabsco Manual toilets		

### Galley down (port hull) or Galley up

* Floors - Teak & Holly composite	:	
* Force 10 / SMEV gas 3-burner and oven	:	1
* 85 L Isotherm 12 volt fridge	:	1
* 95 L Isotherm deepfreeze	:	1
* Double bowl sink	:	1
* Microwave oven	:	1
* Hot and cold fresh water	:	1

LG / Panasonic

### Workshop / Library (port hull)

- \* Cupboards and lockers
- \* Floors - Teak and Holly composite or carpets

### Saloon

- \* Large seating / dining area - can accommodate 6-8 people
- \* Cloth seats
- \* Chart table and drawer
- \* Space for entertainment centre - TV/DVD player
- \* Floors - Teak and Holly composite or carpets
- \* Upholstery package equivalent to USD 3,500

### Cockpit

* Table	:	1
* Cockpit drains	:	2
* Lockers	:	1
* Skipper seat (double)	:	1
* Targa wing and bimini (fixed, with water catchment)	:	1

### Safety package

* Danbouy (day)	:	1
* MOB light (nigh)	:	1
* Life rings and holders	:	2
* Balance as optional extra package	:	

### Commissioning

- \* Sea trials at Knysna, South Africa
- \* One week's complimentary membership at Knysna Yacht Club including mooring

### Specifications as of June 2008

