

# Anchor Handling Tug Supply (AHTS) Vessel



Vessel name:

## KPV KAPAS

### CLASSIFICATION & FLAG

ABS Class, Maltese Cross + A1+ FiFi Class 1, + AMS, Circle E, AH/Offshore Support & Towing Vessel for restricted services. DPS-1 Enable

### NAME/REGISTRY/FLAG/BUILT

KPV KAPAS/Port Klang/Malaysia/2009

IMO NUM : 9537824 Call-sign : 9MLD2

### PRINCIPLE DIMENSIONS

Length O.A	: 60.00 m	Length W.L	: 58.74 m
Beam MLD.	: 16.00 m	Depth MLD.	: 6.00 m
Draft MLD./Max	: 5.10 m	Deck Area	: 390 m <sup>2</sup>
Deck Loading	: 5 mt/m <sup>2</sup>	Speed	: Max. 13 knots
Bollard Pull	: 73 mt	Endurance	: Min. 22 days
Fuel Type	: MDO	GRT	: 1704 t
NRT	: 511 t	DWT	: 1798.60 t

### TANK CAPACITY

Portable Water/FW	: 480 m <sup>3</sup>	Fuel Oil.	: 530 m <sup>3</sup>
Sludge	: 2.1 m <sup>3</sup>	Base Oil	: 185 m <sup>3</sup>
Drill Water (DW)	: 478 m <sup>3</sup>	Mud	: 200 m <sup>3</sup>
Foam Tank	: 10 m <sup>3</sup>	Dispersant Tank	: 10 m <sup>3</sup>
Sewage Holding Tank	: 12 m <sup>3</sup>	Bilge Holding Tank	: 10 m <sup>3</sup>

### PUMPS

Fuel	: 1 x 100 m <sup>3</sup> /hr at 75 m head
Potable Water	: 1 x 100 m <sup>3</sup> /hr at 75 m head
Fresh Water	: 1 x 100 m <sup>3</sup> /hr at 75 m head
Drill Water	: 1 x 100 m <sup>3</sup> /hr at 75 m head
Dry Bulk Delivery	: 2 x 14 m <sup>3</sup> /hr at 5.67 bar
Liquid mud/Brine	: 2 x 80 m <sup>3</sup> /hr at 75 m head
GS & Fire/Detergent	: 50 m <sup>3</sup> /hr at 57 m head

### BULK HANDLING SYSTEM

Suitable for carriage of Cement, Barite and Bentonite with max. density of 2.5.

Total Capacity	: 4 x 1375 ft <sup>3</sup> (156 m <sup>3</sup> ) approx.
Working pressure	: 80 psi (5.6 bar)

### MAIN MACHINERIES

#### Main Engine & Propulsion System

2 x 2610 BHP @ 750 rpm approx. c/w. CPP reduction gear box C/w. P.T.O. at front for FiFi  
Pump per engine & @ gear box P.T.O. for the shaft generator of 1000 kW, 415/3/60, 3 wires.

#### Thrusters (electric motor driven by shaft generator)

Bow Tunnel Thrusters CPP, - thrust of 8 mt,  
Stern Tunnel Thrusters CPP, - thrust of 6 mt

#### Steering Gear & Rudder

2 x High Lift 45° Rudder c/w Flap  
2 x Independent Electro-Hydraulic Steering Gear for each rudder

### POWER PLANT

Diesel Generator	: 2 x 280 kW, 415/3/50, 3 Wire System, Diesel Driven Alternators
Shaft generators	: 2 x 1000 kW, 415/3/50
Emergency	: 1 x 90 kW, 415/3/50 Generator

### DECK MACHINERY

#### Anchor Handling Cum Towing Winch

Electro-Hydraulic Driven Twin Drums in Waterfall Configuration, 1000 m x 58 mm dia. wire  
Brake Holdings - 250 mt (1<sup>st</sup> layer/spring loaded hyd. release Dynamic lowering @ 25 mt @ 0 to 36 m/min (1<sup>st</sup> layer) Remote control in Wheelhouse and local control at site

#### Towing Pins

2 x 200 t SWL, Equip with rotating liners c/w turntable flaps & hydraulic cylinders for lifting and lowering

#### Shark Jaws

1 set Hydraulic operated retractable lock jaw of 300 mt SWL. Stopper is suitable for wire and chain of size from 1 3/4" to 3 1/2"Ø

#### Stern Roller

1.8 m dia. X 4.2 m length with SWL of 375 mt

#### Reefer Point

4 no. x 16 Amp, 415/3/50 and 4 no. x 32 Amp, 230/1/50

#### Others

Capstan 2 x 5 m/tonnes @ 15 m/min  
Tugger Winch 2 x 10 m/tonnes @15 m/min  
Storage Rope Reel 1 x 10 m/tonnes @ 0 to 15 m/min @  
Capacity : 1000 mL x 58 mm dia steel wire rope  
2 x 45 kW Hydraulic operated with local controls

### FIRE FIGHTING EQUIPMENT

#### External Fire Fighting System

ABS FiFi Class 1 c/w 2 x Fire Monitors with throw length 120 m delivering 2400 m<sup>3</sup>/hr  
(Water/Foam) and with all round Fixed Water Spraying System

#### Fixed Fire Protection System

Fixed CO<sub>2</sub> System for Engine Room & Bow Thruster Room

#### Fire Alarm & Detection System

As per ABS rules and SOLAS requirements

### COMMUNICATION / NAVIGATIONAL EQUIPMENT

#### Communication System

GMDSS A1 to A3, PA/Talk back and Sound Powered Telephone system  
Iridium satellite comm. System with email & voice capability

#### Navigation Aids Equipment

Echo Sounder, Radars x 2, GPS Navigator (IMO), SART (2), 406 MHz EPIRB, Gyro Compass,  
Auto Pilot, AIS, SSAS, Speed Log, Navtex Receiver, Magnetic Compass, Anemometer

#### Searchlights

2 x 2000W, Searchlights c/w remote controls (1 fwd & 1 aft)

### ACCOMMODATION

All accommodation spaces and engine control room are full air-condition Accommodation Layout:

1- berth Cabin x 4	=	4 men		
2- berth Cabin x 2	=	4 men		
4- berth Cabin x 8	=	32 men	<b>Total</b>	<b>= 40 men</b>
Sickbay	=	1 man		

\*\* This vessel specification is given in good faith & assumed correct. Details given are without guarantee.

### KENCANA NAUTILUS SDN BHD (882459-A)

(Formerly known as Thirve Alliance Sdn Bhd)  
Level 11, Menara SapuraKencana Petroleum,  
Solaris Dutamas, 1 Jalan Dutamas 1, 50480 Kuala Lumpur  
Tel: +603 6209 8000 Fax: +603 6209 7780  
Website: www.sapurakencana.com

