



ALLIANZ RANGER

5150 BHP Anchor Handling/Supply Vessel (DPS1), Bollard Pull - 62 MT
Clear Deck Space - 360 m2, Winch Line Pull - 150 MT

- » Conan Wu design Anchor Handling / Supply Vessel
- » Fully air conditioned accommodation for up to 42 personnel
- » Equipped with double-drum electro-hydraulic Towing and Anchor Handling winches

- » Vessel is DP 1 and fitted with a FIFI Class 1 System
- » Suitable for general offshore support services

PRINCIPAL PARTICULARS

Length Overall	59.00 m
Length Waterline	56.61 m
Breadth Moulded	14.60 m
Depth Moulded	5.50 m
Draft (max)	4.50 m
Draft (design)	4.50 m
Built	China
GRT / NRT	1494 / 448
Year of delivery	2007
Class	Bureau Veritas
Notation	Class 1 + Hull + MACH "Supply Vessel & Fire Fighting Ship" Unrestricted Navigation.
Flag (Port of Registry)	Singapore
Call Sign	9VPN2
IMO Number	9416496

PERFORMANCE

Maximum Speed / Consumption	12.5 knots
Service Speed / Consumption	10 knots
Economical Speed / Consumption	9 knots
Type of Fuel	Marine Gas Oil
Bollard Pull	62 MT

CARGO CAPACITIES

Deadweight	1275 mt
Deck Cargo	500 mt
Deck Strength	7.0 mt/m2 uniform loading
Clear Deck Area	360 m2
Fuel Oil	440 m3
Fresh Water	240 m3
Ballast/Drill Water	460 m3
Liquid Mud	250 m3
Cement Tank	187 m3 (4 x 1650 ft3); Unislip
Freezer / Chiller	10 m3 / 10 m3
Foam / Detergent	10 m3 / 10 m3
Rig Chain Locker	Nil

PUMPS

Fuel Oil	1 x 150 m3/hr @ 75m head; Azcue
Fresh Water	1 x 100 m3/hr @ 75m head; Azcue
SWB/Drill Water	1 x 100 m3/hr @ 75m head; Azcue
Liquid Mud *	2 x 70 m3/hr @ 85m head; (SG 2.5) Mission Circulation system
Bilge/Ballast	2 x 75 m3/hr @ 50m head; Azcue
GS / Fire Pump	1 x 75 m3/hr @ 50m head; Azcue
Bulk Cement	2 x 13 m3/min @ 80 psi air compressors; Airman system fitted with dryers

* Liquid Mud tanks are strengthened for products up to 2.5 SG and can be nominated to carry Brine

PROPULSION SYSTEM

Main Engines	2 x 1920 kw (2575 bhp) @ 1600 rpm Caterpillar 3516B
Main Generators	3 x 340 kw @ 1500 rpm Caterpillar 3408 c/w Leroy Somer LSAM47.1L9 alternators rated at 320 Kw/415 V/3 Ph/50 Hz
Emergency Generator	1 x 52 kw @ 1500 rpm Caterpillar C4.4 rated at 52 kw/415 V/3 Ph/50 Hz
Shaft Alternator	Nil
Bow Thruster	1 x 440 kw electric-driven HRP 4000; tunnel type (CPP); 6T thrust
Stern Thruster	Nil
Steering Gear	2 x Kobelt; 4T; 35 deg
Propulsion	2 x CPP Type with Kort Nozzle; Berg 690 BCP/4
Rudders	2 x high performance streamline type

DECK EQUIPMENT

Anchor Windlass	1 x electro-hydraulic Mentrade HAW-10T
Drum	Nil
Gypsies	su it' for 40 mm (Ø) chains rated pull 10 mt @ 9 m/min
Warping drum	400 mm (dia) x 450 mm (L) rated pull 2 mt @ 10 m/min
Bow Anchors	2 x 1305 kg HHP anchors
Chains	440 m (L) x 36 mm (Ø) Grade U2 (each side)
Capstan	2 x 5 mt @ 15m/min electro-hydraulic; Mentrade HVC-5T
Tugger Winch	2 x 10 mt @ 15m/min electro-hydraulic; Mentrade HUW-10T Drum Capacity : 200 m (L) x 22 mm (Ø) SWR
Deck Crane	1 x 2T @ 12m electro-hydraulic Palfinger PK32080(M)C
Towing/AH Winch	1 x electro-hydraulic double drum Mentrade AHTW-150T
Upper Drum Cap (Tow)	1000 m (L) x 56 mm (Ø) SWR
Lower Drum Cap (AH)	1000 m (L) x 56 mm (Ø) SWR
Line Pull	150 mt @ 6 m/min at 1st layer 71 mt @ 12 m/min at 1st layer 50 mt @ 18 m/min at 1st layer 23 mt @ 36 m/min @ 1st layer
Stall Pull	165 mt @ 1st layer
Brake Capacity	200 mt static @ 1st layer Remote control from aft control stand in wheelhouse
Gypsies	Nil
Warping Drums	Nil
Stern Roller	5.00 m (L) x 1.60 m (Ø); SWL 200 mt
Shark Jaws	1 set electro-hydraulic Karmfork; SWL 300 mt
Tow Pins	2 x electro-hydraulic with turntable top flaps
Rope Reel	1 x electro-hydraulic Mentrade HSR-5T Drum Capacity : 1000 m (L) x 56 mm (Ø) SWR
Reefer Points	6 x 4pin x 32A



ACCOMMODATION

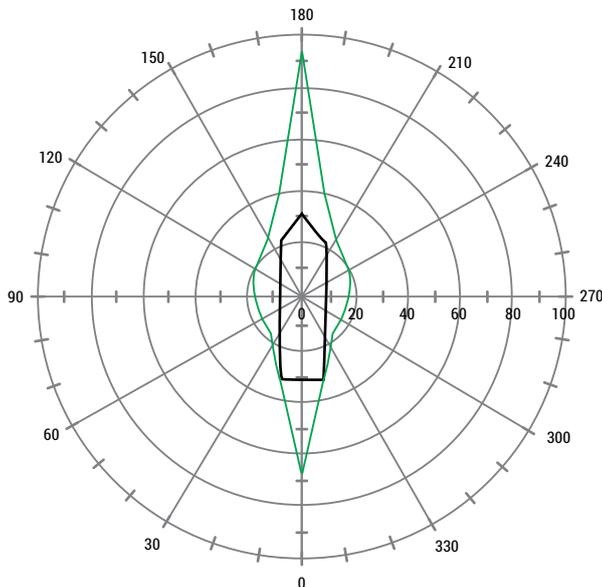
Berths	2 x 1 berth cabins =	2
	4 x 2 berth cabins =	8
	8 x 4 berth cabins =	32
Total		<u>42</u>
Hospital	1 x 1 berth cabin =	1
All cabins fully air-conditioned & c/w attached washroom		

RADIO AND NAVIGATION EQUIPMENT

GMDSS	Furuno RC-1800T (Area 3) comprising :
SSB	1 x Furuno FS-2570 with built in DSC
Inmarsat C	2 x Furuno Felcom 15; 1 x Furuno Felcom 15SSAS
VHF Radio	2 x Furuno FM 8800 with built-in DSC
Navtex Receiver	1 x Furuno NX 700 (518 KHz)
SART	2 x McMurdo S4 (9 GHz)
EPIRB	1 x McMurdo E3A
Portable VHF Radios	3 x McMurdo R2 (25KHz)
Radar	1 x Furuno FR 21 15 1 x Furuno FR 1510 MK3
Echo Sounder	1 x Furuno FE 700
GPS	1 x Furuno GP 150
Gyrocompass	1 x Anschuetz Standard 22
Autopilot	1 x Anschuetz Nautopilot NP60
Magnetic Compass	1 x Cassens & Plath Reflecta 3
Weather Fax	1 x Furuno FAX 207
Speed Log	1 x Furuno DS-80
Wind Indicator	1 x RM Young 05103
AIS	1 x Furuno FA-150
DP	Marine Technology Bridge Mate DP1 2 x DGPS Veripos LD2S
Joystick	Marine Technology
Vessel also fitted with Vingtor Talktalk System & Self-Powered Telephones	

DP CAPABILITY PLOT

Capability Plot: All thrusters online. 0 knot Current Stepped



Wind speed in Knots

Particulars are believed to be correct but not guaranteed. All figures given are approximate only. Owners reserve the right to amend the specifications without notification.

FIRE FIGHTING & ANTI-POLLUTION EQUIPMENT

EXTERNAL	
FiFi System	Class 1 with water curtain all round
Fire Pump	2 x 1540 m3/hr @ 13 bar FFS SFP250x350 driven by front PTO of M/E
Monitors - (water/foam)	1 x 300-1200 m3/hr; FFS1200LB 1 x 1200 m3/hr; FFS1200LB
Oil Dispersant System	2 x 6m (6 nozzles) spray booms; Unitor

INTERNAL

Emergency Fire Pump	1 x 35 m3/hr @ 50m head; Azcue
BA Recharging Comp	1 x 260 ltrs/min @ 300bar Coltri MCH16/E-TS
CO2 system in engine room	
Fire Detection & Alarm System in living spaces & engine room	

SAFETY AND ENVIRONMENT

Liferafts	4 x 20 men SOLAS Approved type 2 x 25 men SOLAS Approved type
Rescue boat	1 x 6 men semi-rigid inflatable c/w outboard motor
Oily Water separator	1 x 1 m3/hr c/w 15 ppm alarm
Water Maker	1 x 5 m3/day Reverse Osmosis, Sealy SW-5T
Sewage Treatment Plant	1 x 48 men/day

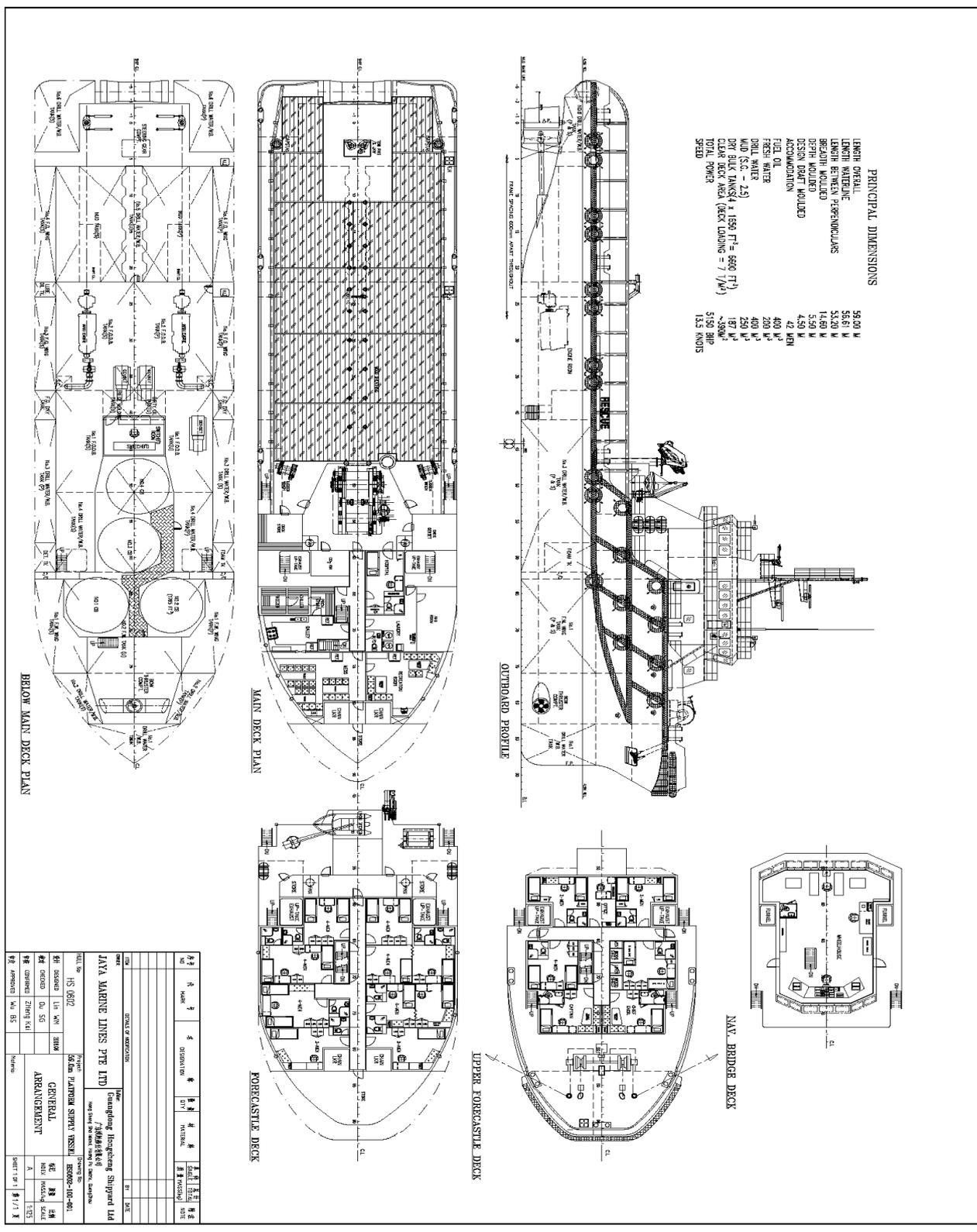
TANK CAPACITY PLAN

UNITS = M ³						
TANK	Fuel Oil	Fresh Water	Drill Water	Oil Based Mud	Base oil	
Fuel (8)	49.13					
	49.13					
	55.43					
	55.43					
	58.78					
	58.78					
	61.08					
Fresh water (3)		74.22				
		74.22				
		95.38				
	Drill water (10)		57.58	57.58		
			28.62	28.62		
			28.62	28.62		
		78.77	78.77			
		78.77	78.77			
		43.69	43.69			
OBM (2)		66.39	66.39			
		20.9	20.9			
		20.9	20.9			
		20.9	20.9			
Total	127.16			127.16	127.16	
	127.16			127.16	127.16	
Total	703.12	711.75 *	467.93	254.32	254.32	

* Only dedicated Fresh water tanks can carry potable water; Capacity of 243.82m3



ALLIANZ MIDDLE EAST



DETAILS OF VESSEL		NAME		ST. NO.	
IMO		NAME		ST. NO.	
JAYA MARINE LINES PTE LTD (containing Hongkong Shipyard Ltd)					
Project: SAILOR PLANTER SUPPLY VESSEL (Drawing No: BSR000-100-001)					
Hull No: HS 0502					
#1 Decked: Lin. ANI					
#2 Decked: DU. SC					
#3 Decked: ZHONG. SIA					
#4 Decked: MAI. BE					
#5 Decked: MAI. BE					
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