

## PRINCIPAL PARTICULARS

Length Overall	:	75.00 m
Length Waterline	:	71.40 m
Breadth Moulded	:	20.40 m
Depth Moulded	:	7.00 m
Design Draft	:	5.30 m
Built	:	China
GRT / NRT	:	3906/1171
Class	:	American Bureau of Shipping
Notation	:	+A1 (E), Offshore Support Vessel, SPS Code, +AMS, ACCU, DPS-2 For Unrestricted Service
Flag (Port of Registry)	:	Tuvalu
Call Sign	:	T2NK3

## PERFORMANCE

Maximum Speed	:	12 knots at MCR
Type of Fuel	:	Marine Diesel Oil
Fuel Consumption	:	Approx 17m <sup>3</sup> /24hr @ 85% MCR (Main Engine) Approx 20m <sup>3</sup> /24hr (5 X CAT 3412 gen sets) Approx 4.5m <sup>3</sup> /24hr (CAT C32 Thruster Engine)

## CARGO CAPACITIES

Deadweight	:	2660 m/t
Deck Cargo	:	800 m/t
Deck Strength	:	5.0 mt/m <sup>2</sup> uniform loading
Clear Deck Area	:	650 m <sup>2</sup>
Fuel Oil	:	1,180 m <sup>3</sup>
Fresh Water	:	830 m <sup>3</sup>
Ballast Water	:	1,644 m <sup>3</sup>
Freezer / Chiller	:	TBC
Foam / Detergent	:	TBC

## PUMPS

Fuel Oil	:	1 x 30 m <sup>3</sup> /hr @ 20m head; Bombas Azcue
Fresh Water	:	1 x 60 m <sup>3</sup> /hr @ 40m head; Bombas Azcue
Bilge / Fire Pump	:	3 x 60 m <sup>3</sup> /hr @ 45m head; Bombas Azcue
Bilge / Ballast Pump	:	1 x 150 m <sup>3</sup> /hr @ 25m head; Bombas Azcue

## PROPULSION SYSTEM

Main Engines	:	2 x 1,600 kWm @ 1,000 rpm Wartsila 8L20
Main Generators	:	5 x 590 kW @ 1,800 rpm Caterpillar / 3412C c/w alternator SR4
Emergency Generator	:	1 x 99 kW @ 1,800 rpm Caterpillar / C4.4 rated at 99 kW/440 V/3 Ph/60Hz
Shaft Generator	:	NIL
Bow Thruster	:	1 x Caterpillar C32 1,000 bhp diesel engine driven HRP 5007 TT tunnel type (CPP); 11.5 T thrust
Stern Thruster	:	HRP 5007 TT tunnel type (CPP); 8T thrust
Steering Gear	:	2 x Wagner LA2 7.1-45-CB2 7.1 TM; 45 deg
Propulsion	:	2 x CPP in Kort Nozzles; Lips 4D650
Rudders	:	2 x Becker Rudder / SA 2050 203 F.2

# ORANDA 1

## 4,200 bhp Work Maintenance Vessel



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14-Dec-10

**DECK EQUIPMENT**

Anchor Windlass	:	1 x electro-hydraulic Macgregor / PC-HAW/GG-50
Gypsies	:	suit for 50 mm (Ø) chains rated pull 10.6 mt @ 10 m/min
Warping drum	:	400 mm (dia) x 660 mm (L)
Bow Anchors	:	2 x 3,060 kg Stockless Bower anchors
Chains	:	495 Total Length x 38 mm (dia) Grade 2
Capstan	:	2 x 5 mt @ 15m/min electro-hydraulic; MacGregor / PC-HVC-05/400
Mooring Winch	:	4 x 50 mt @ 10m/min electro-hydraulic; Macgregor / PC-HMW/SD-40/090D Drum Capacity : 1500 m (L) x 38 mm (Ø) SWR
Deck Crane Capacity	:	45 T @ 8 m
Personnel Lift	:	1.5 T @ all radi
Provision Crane	:	1 x electro-hydraulic Amco Veba / 807/3S - 3 Ton @ 1.7 m

**ACCOMODATION**

Berths	8 x 1 berth cabins	=	8
	6 x 2 berth cabins	=	12
	30 x 4 berth cabins	=	120
Total			<u>140</u>
Hospital	1 x 2 berth cabin	=	2

All cabins fully air-conditioned & c/w attached washroom

**FIRE FIGHTING EQUIPMENT & ANTI-POLLUTION EQUIPMENT****INTERNAL**

Emergency Fire Pump	:	1 x 40 m <sup>3</sup> /hr @ 45 m head; Bombas Azcue
BA Recharging Comp	:	1 x 100 ltrs/min @ 200 bar Brand / Model TBA
CO <sub>2</sub> system		in engine room
Fire Detection & Alarm System		in living spaces & engine room

**RADIO AND NAVIGATION EQUIPMENT**

GMDSS	:	Furuno RC-1800T 250W (Area 3) comprising :
SSB	:	1 x Furuno FS-2570 with built in DSC
Inmarsat C	:	Felcom-15 SSAS & LRIT
VHF Radio	:	2 x Furuno FM-8800S with built in DSC
Navtex Receiver	:	1 x Furuno NX-700 (518 KHz)
SART	:	2 x McMurdo S4
EPIRB	:	1 x McMurdo E5
Portable VHF Radios	:	3 x McMurdo R2 (25KHz)
Radar (S-Band)	:	1 x Furuno FAR-2137S ARPA 96 NM
Radar (X-Band)	:	1 x Furuno FAR-2117 RP-ARPA 96 NM
Echo Sounder	:	1 x Furuno FE-700
GPS	:	3 x Veripos LD3 System
GPS	:	1 x Furuno GP-150
Gyrocompass	:	3 x Anschuetz Standard 22
Autopilot	:	1 x Anschuetz Pilotstar D
Magnetic Compass	:	1 x Cassens & Plath REFLECTA 1
Weather Fax	:	1 x Furuno FAX408
Speed Log	:	1 x Furuno DS-80
Wind Indicator	:	3 x Gill Instruments WindObserver II 1390-PK-006
AIS	:	1 x Furuno FA-150
VDR	:	1 x Furuno VR-3000
DP	:	Converteam Duplex C-Series
Joystick	:	Converteam Independent Joystick

Vessel also fitted with Vingtor PA Talkbalk System & Self-Powered Telephones

**MISCELLANEOUS**

Liferafts	:	4 x 25 men SOLAS approved type
Life Boat	:	2 x 60 men totally enclosed Vanguard
Rescue Boat	:	1 x 8 men Rescue Boat
		Inboard Diesel Engine Driven Vanguard
Oily Water Separator	:	1 x 1 m <sup>3</sup> /hr c/w 15 ppm
Water Maker	:	2 x 20 m <sup>3</sup> /day Reverse Osmosis, Coffin
Sewage Treatment Plant	:	1 x 140 men; Hamworthy / ST13