



# TAN CANG OFFSHORE SERVICES JSC.

## Vessel Specification



## TC VENUS

### Technical Specification

PSV Vessel : 6,000 HP  
 DP2, FiFi class 1  
 Deck Area: 800 m<sup>2</sup>

*“Our success is driven by the customers”*

### MAIN PARTICULARS

#### GENERAL

Year of delivery	2014
IMO	9698446
Call Sign	AWIV
Notation	⊗A1, FFV 1, Offshore Support Vessel, SPS, Supply-HNLS, ⊕, ⊗AMS, ⊗ACCU, ⊗DPS-2
Flag (Port of Registry)	Vietnam

#### ACCOMODATION

Cabins Layout	9 x 1 berth cabins
	3 x 2 berth cabins
	11 x 4 berth cabins
	Total 59 berths
Hospital	1 x 1 berth cabin
All cabins fully air-conditioned & all c/w attached toilet (except 4 berth cabins)	

#### PRINCIPAL DIMENSIONS

Length Overall	78.00 m
Length B.P	70.20 m
Breadth Moulded	18.60 m
Depth Moulded	7.80 m
Draft Max	6.20 m

#### PRINCIPAL DIMENSIONS (CON'T)

Deadweight	3,800 MT
Deck Cargo	1,600 MT
Clear Deck Area	800 m <sup>2</sup>
Deck Strenght	7.5 T/m <sup>2</sup>
GRT/NRT	3469/ 1134 T

#### CAPACITIES

Fuel Oil	1,235.0 m <sup>3</sup>
Fresh Water	640.0 m <sup>3</sup>
Ballast/Drill Water /R Lckr	1,536.0 m <sup>3</sup>
Mud / Brine	800.0 m <sup>3</sup>
Foam / Detergent	20 m <sup>3</sup> / 20 m <sup>3</sup>
Dry Bulk / Cement	300 m <sup>3</sup> allocated 4 tanks
Freezer / Chiller	10 m <sup>3</sup> / 10 m <sup>3</sup>

#### PUMPS

Fuel Oil	2 x 100m <sup>3</sup> /hr @ 90 m head
Fresh Water	1 x 100m <sup>3</sup> /hr @ 80 m head
Drill Water	1 x 100m <sup>3</sup> /hr @ 80 m head
Brine Discharge	2 x 75m <sup>3</sup> /hr @ 90 m head
Bilge/Ballast	2 x 100m <sup>3</sup> /hr @ 80 m head
GS/Fire Pump	1 x 100 m <sup>3</sup> /hr @ 80 m head
Bulk Cement	2 x 20 m <sup>3</sup> /min @ 5.5 bar

Technical parameters are subject to change without notice

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## MACHINERIES

### ➔ PROPULSION SYSTEM

Main Engines	2 x 3000BHP, Niigata
Main Generators	4 x 620kw (Caterpillar)
Emergency Generator	1 x 99kw, (Caterpillar, perkins)
Shaft Alternator	N/A
Stern Thruster	N/A
Bow Thruster	N/A
Steering gear	N/A
Propulsion	2 x FPP Dia 2500 mm Azimuth Thruster, Niigata
Rudders	Azimuth thruster

### ➔ DECK EQUIPMENT

Anchor Windlass	2 x 10 tonnes (MEP Plimsoll Mentrade)
Gypsies	suitable for 46mm dia U2 chain
Bow Anchors	2 x 2640 kg HHP anchor
Bow Anchors	2 x 550 m (L) x 46 mm (Dia), Grade U3
Capstan	2 x 5 mt 15 m/min electro Hydraulic (MEP)
Tugger Winch	2 x 10 mt 12 m/min electro Hydraulic (MEP)
Drum Capacity	200m x 26 mm Dia
Deck Crane	1 x 5 Ton @ 10m,
Towing / AH Winch	N/A
Upper Drum (Tow)	N/A
Lower Drum Cap(AH)	N/A
Line Pull	N/A
Static Brakes	N/A

### ➔ PERFORMANCE

Speed	12.5 knots
Type of Fuel	Marine Gas Oil

### ➔ MISCELLANEOUS

Liferafts	8 x 25 men,
Rescue boat	1 x 9 men
Oily Water Separator	1 x 2.5 m3/hr,
Water Maker	1 x 10 T/day,
Sewage Treatment	Plant 1 x 59 men/day,

### ➔ NAVIGATION AND COMMUNICATION EQUIPMENT

GMDSS	Area A1+A2+A3 Consist of
SSB	1 x Furuno FS 1575
Inmarsat	C 2 x Furuno Felcom-18
VHF Radio	2 x Furuno FM 8900
Navtex Receiver	1 x Furuno NX 700B
SART	2 x McMurdo S4
EPIRB	1 x McMurdo E5
Portable VHF Radios	4 x McMurdo R5
Radar	2 x Furuno FAR 2117 & FAR 215
Echosounder	1 x Furuno FE 700
DGPS	1 x Furuno GP 150
Gyrocompass	3 x SIMARD GC-80
Autopilot :	1 x NAVITRON NT888G
Magnetic Compass	1 x SAURA SR165
Weather Fax	1 x Furuno Fax 408
Speed Log	1 x Furuno DS 80
Wind Indicator	3 x Kongsberg
ALS	1 x Furuno FA 150
DP	DP 2 System kongsberg
Joystick	1

Vessel also fitted with PA Talkback System and Self Powered Telephone

### ➔ AUXILIARY EQUIPMENT

FIFI System	Class 1 with water curtain all around
Fire Pump	2 x 1825 m3/hr @ 12 bar, FFS/Kongweilee Shaft Alternator NA driven by front PTO ME 2 x 10 Ton, CPP, (Kawasaki)
Fire Monitors	2 x Monitor with double barrel
water / foam	1 x 1200 m3/hr
water	1 x 1200 m3/hr
Oil Dispersant System	2 x Cluster nozzles

### ➔ INTERNAL

Emergency Fire Pump	1 x 35 m3/hr x 50m head
CO2 System in engine Room	
Fire Detection & Alarm in living Spaces and Engine Room.	

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