



TAN CANG OFFSHORE SERVICES JSC.

Vessel Specification



TC QUEEN

Technical Specification

AHTS Vessel : 12,240 HP
 DP2, FiFi Class 1
 Bollard Pull: 151 MT

“Our success is driven by the customers”

MAIN PARTICULARS

GENERAL	
Built	Wuchang Shipyard China
Year of delivery	2007
GRT/NRT	2,765 / 897
Flag / POR	Vietnam
Class	VR/ ABS, A1, FFV1, CST-C1, Offshore Support Vessel Supply-HNLS, TOW, AMS, ACCU, DPS-2
ACCOMODATION	
Wheelhouse and accommodation fully air conditioned	
Complement	42 persons
VSAT	Single dome
PERFORMANCE	
Service Speed	Abt 10 – 12 knots
Bollard Pull	151 Tonnes

PRINCIPAL DIMENSIONS

Length Overall	69.60 m
Breadth Moulded	17.00 m
Draught (summer)	6.20 m

CARGO DECK/ TONNAGE

Deadweight (summer)	2,298 mt
Deck Area	500 m2
Deck Strength	10 tonnes/m2
Deck Cargo Capacity	1300 tonnes

CARGO CAPACITIES (Approx 100%)

Fuel Oil	839 m3
Potable water	467.3 m3
Drill water/ SWB	1,058.3 m3
Dry Bulk	229.7 m3
Liquid Mud	562.9 m3
Base Oil	119.8 m3
Brine	617.3 m3

CARGO PUMPING

Fuel Oil	2 x 250 m3/hr @ 9 bar
Potable water	1 x 150 m3/hr @ 9 bar
Drill water/ SWB	1 x 150 m3/hr @ 9 bar
Dry Bulk	2 x 25 m3/hr @ 80 psi
Liquid Mud	2 x 75 m3/hr @ 21 bar
Base Oil	1 x 75 m3/hr @ 21 bar
Brine	1 x 75 m3/hr @ 9 bar

Technical parameters are subject to change without notice

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MACHINERIES

DP2 SYSTEM

DP/ Joystick Control	IMO Class 2 DP System – Kongsberg K-Pos DP 21
Reference Systems	Fan beam laser + 2 x DGPS

PROPULSION

Two Wartsila W9L32 engines to operate in the Diesel Electric mode driving either or two Wartsila W9L32 engines two propellers and hotel load. One propeller via direct drive the other via the combined shaft alternator / electric motor

Total developed power 9,000 kW (12,240 BHP)

GENERATORS

Shaft Alternator	2 x 1,440kW/ 440V/60Hz/ 3Ph
Main Alternator	2 x 320kW/ 440V/60Hz/ 3Ph
Emergency Alternator	1 x 250kW/ 440V/60Hz/ 3Ph

THRUSTERS

Forward tunnels	2 x 610 kW
Aft tunnel	1 x 610 kW
Aft rudders	2 x Independent flap type

DECK MACHINERY

Brattvaag LP hydraulic towing drum with spooling	
Maximum pull	350t / 450t on brakes on 1 st layer
Working pull	169t @ 19.2 m/m with 1,000m wire left
Drum dimensions	1.05 ID / 2.85 OD x 1.6 long
Drum capacity	1,500 m x 76 mm dia.
A/H drum No.1	With spooling
Maximum pull	310t / 400t on brakes on 1 st layer
Working pull	235t @ 13.8 m/m with 1,000m wire left
Drum dimensions	1.2 ID / 2.85 OD x 5.07 long
Drum capacity	3,500 m x 86/ 5,090m x 76.
A/H drum No.2	With spooling
Maximum pull	350t / 450t on brakes on 1 st layer
Working pull	191t @ 17.0 m/m with 1,000m wire left
Drum dimensions	1.05 ID / 2.85 OD x 2.2 long
Drum capacity	2,100 m x 76 mm dia.
Rig cable lifters	330t @ 7.9 m/m

Cable lifters supplied	2 x76 + 1 x 70mm +1 x 90mm
Wire guide rollers	58mm to 125mm
Rig Chain Lockers	302.3 m3

STABILISATION

Passive roll reduction stabilization tank

ANCHOR HANDLING TONGS / TOWING PINS

Karm forks	2 x 450t SWL retractable
Towing pins	4 x 300t SWL retractable
Towing pins	2 x 95t SWL pop up pins
Towing Eye	113t SWL hinged / recessed
Smit Bracket	175t SWL

STERN ROLLER

Length / Diameter	5.0 m x 2.4 m dia.
SWL	500 tonnes SWL

DECK CRANE

Marin-Offshore knuckleboom	
Lifting Capacity	5t SWL @ 15 m radius /625 T max @ 15m

EXTERNAL FIRE FIGHTING EQUIPMENT

FIFI Class 1

DISPERSANT SYSTEM

Portable deck mounted 8m hinged dispenser booms with permanent under deck storage tank, proportional valves and metering discharge pumps.

Dispersion Tank 14.7 m3 @ 100% capacity

OIL RECOVERY

Portable deck mounted recovery booms, skimmers and pumps can be provided. Under deck storage tanks and recovered oil discharge pumps are installed.

Recovered Oil Tanks 1,033 m3 @ 100% capacity

Pennant Wire Winches	2 x 2,000 m x 76 mm wire
Spare Tow Wire Winch	1 x 1,500 m x 76 mm wire
Tugger Winches	2 x 15t hyd.
Capstans	2 x 10t hyd.

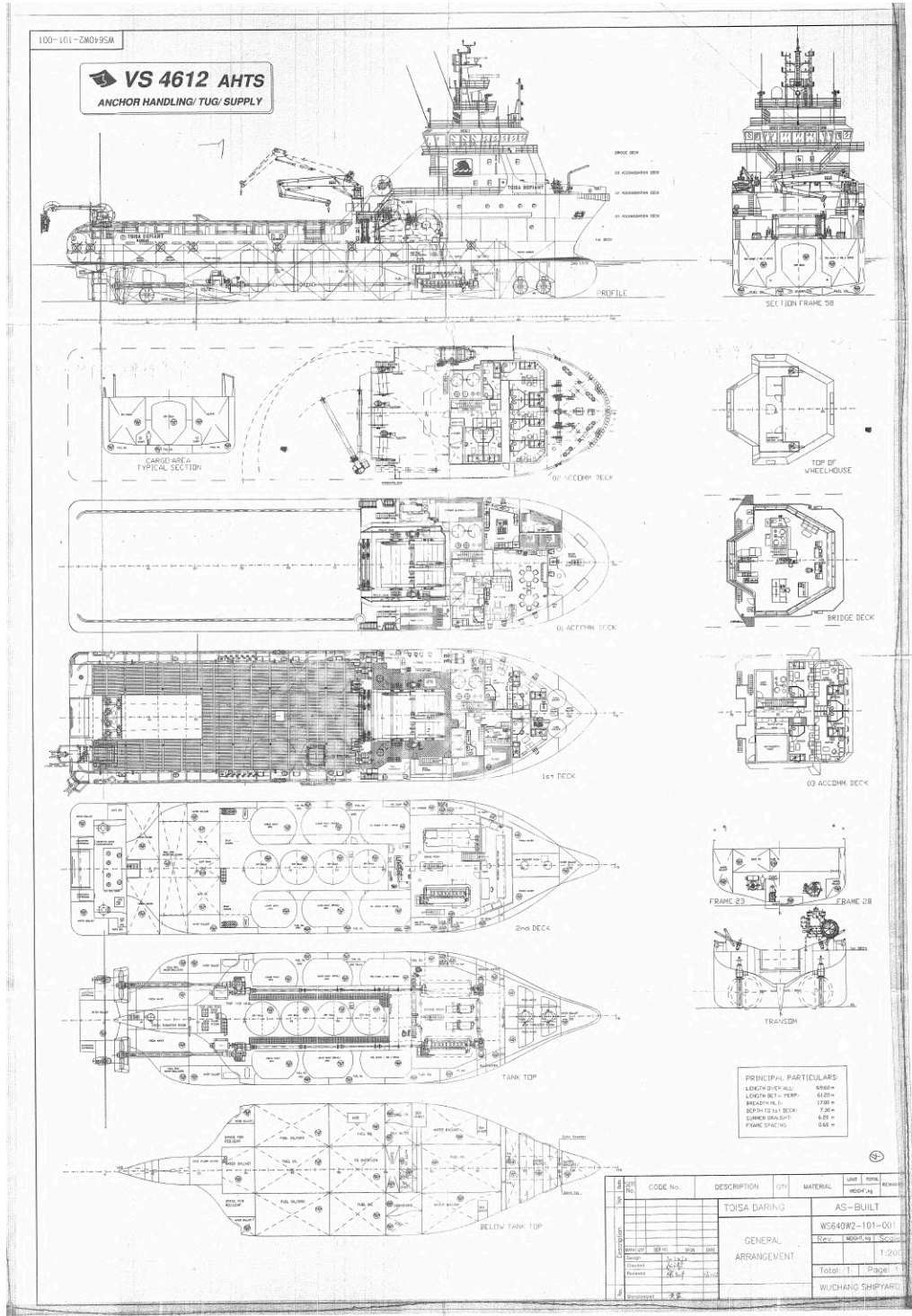
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GENERAL ARRANGEMENT



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