Astro Offshore
An Adani Group Company



ASTRO CELAENO

5,200 BHP ANCHOR HANDLING TUG

GENERAL

Flag:	Liberia
IMO Number:	9664328
MMSI:	636025006
Call Sign:	5LVI8
Year Built:	2013
Builder:	Choy Lee Shipyards lt. China
Classification:	ABS / A1(E) +AMS, AH, TOWING VESSEL

PRINCIPAL PARTICULARS

Length OA:	50.00m
Breadth Moulded:	12.60m
Depth Moulded:	5.75m
Draft (Design):	4.50m
Bollard Pull:	65.0T
Gross Tonnage:	1,022T
Net Tonnage:	306T
Deadweight:	700T

PERFORMANCE

Trial Speed:	12.0 Knots

MACHINERY

Main Engine:	Yanmar 6EY26; 2 x 2,610 BHP @ 750 RPM; 4 stroke medium speed; Continuous
Generators:	3 x 350kW output Caterpillar C18 @ 415V 3Ph 50Hz
Emergency Generator:	1 x 82kW output Caterpillar C4.4 emergency / harbour gen set; Starting Battery to be provided
Bow Thruster:	4.5T thrust controllable pitch; Electrical- driven
Gear Box:	1 x Reduction Gear; Gear ratio to match engine for appriate RPM
Propellers:	2 x 4-bladed @ dia 2650mm; Berg CPP in fixed nozzles
Steering Gear:	2 x independent electro-hydraulic steering gear; 8T.m torque capacity @ 2 x 45 deg rudder angle

NAVIGATION

Radars:	2 x Furuno RDP-150 & MV201CR
Gyro Compass:	1
Speed Log:	1 x Furuno DS-80 Doppler Speed Log
GPS Navigator:	1
Auto Pilot:	1 x Highlander HLD-FV200
NAVTEX:	1 x Furuno NX 700A
DSC Water Keeping Receiver:	1
Gyro Repeaters:	3

COMMUNICATION

Inmarsat C:	1 x Furuno Felcom 15
VHF Radio:	2 x Furuno FM-8800S
EPIRB:	1 x Vep 8

DECK EQUIPMENT

Deck Space:	220m²
Deck Strength:	5.0T / m²
Deck Crane:	1 x 2T @ 10m
Deck Reel:	1 x electro-hydraulic with drum capacity for 1,000m length of tow 52mm dia wire. Pull of 10T@ 20m / min local operation
AH / Towing Winch (Double Drum):	1000m x 52mm of FSWR
Anchor Windlass:	Electro-hydraulic, cable lifter @ 6T
Chain Cables:	2 off 550m x 38mm dia. Grade 2, high strength steel (stud link)
Mooring Lines:	4 x 140m long; minimum 10 tonnes breaking strength
Towing / Anchor handling:	1 x electro-hydraulic waterfall type double drum towing/anchor. Brake holding capacity @ 180T Pull/Speed: 75t x 8m/min (1st speed)
Winch:	Brake holding capacity @ 18T
Towing Wires:	2 x 1000m 52mm dia wire rope
Stern Roller:	1 x Set 200T SWL @ 3.5m x 1.5m dia
Towing Pin / Shark Jaws:	1 x Set 200T SWL
Tugger Winch:	2 x 10T @ 12m / min
Capstan:	2 x 5T @ 15m / min
Anchors:	2 x high holding power @ approxi 970kg. AC-14 totally recessed
Bow Winch:	Bow winch pull of 10 tons; min brake holding 100 tons
Bollards:	10 x 10"NB, Sch 80 pipe double bollards. 1 x 300NB, sch 80 pipe cruciform bollard

CAPACITIES

Potable Fresh Water:	154.8m³
Fuel:	653.0m³
Ballast Water:	107.40m³

DISCHARGE RATES

Fuel Oil Transfer Pump:	2 x Horizontal Gear pumps @ 10m³ / hr @ 20 mwc; 415V / 3Ph / 50Hz;
Cargo Oil Pump:	1 x gear pump; 70m³ /hr @ 50m head; 415V/3Ph/50Hz
Oily Bildge Separator:	1 x OWS with capacity 0.5m³ /hr @ 4kg / cm²
Sludge Transfer / Dirty Oil:	1 x Electric driven gear pump or horizontal positive displacement type screw pump; 5m³ / hr @ 45m head
Bilge / Ballast:	1 x Horizontal Self Priming centrifugal pump @ capacity of 70m³ / hr @ 50mwc. 415V/ 3Ph / 50Hz
FW / SW / Standby Pressure Set:	1 complete set @ 1 KW motor; 2800 RPM ; 415V/3/50HZ. 1x Pressure tank @ 300 litres with maximum working pressure 30-40PSI
Lube Oil / Fuel Oil Purifier:	1 x 1,200 Ltrs / hr
Air Compressors:	2 x 2 stage compressors with each capacity 25m³ /hr FAD x 30kg / cm² ; 415V / 3Ph / 50Hz

RESCUE EQUIPMENT

Rescue Boat:	1 x 6 man
Life Raft:	4
Lifebuoys:	8 units ; 4 x lifebuoys @ 90 feet buoyancy line & 4 x lifebuoys @ 90 feet buoyancy line and self-igniting electric lights & 2x smoke signals
Life Jackets:	27 units

ACCOMMODATION

One Man Cabins:	2
Two Man Cabins:	3
Four Man Cabins:	4
Total POB:	24
Medical Bay:	1

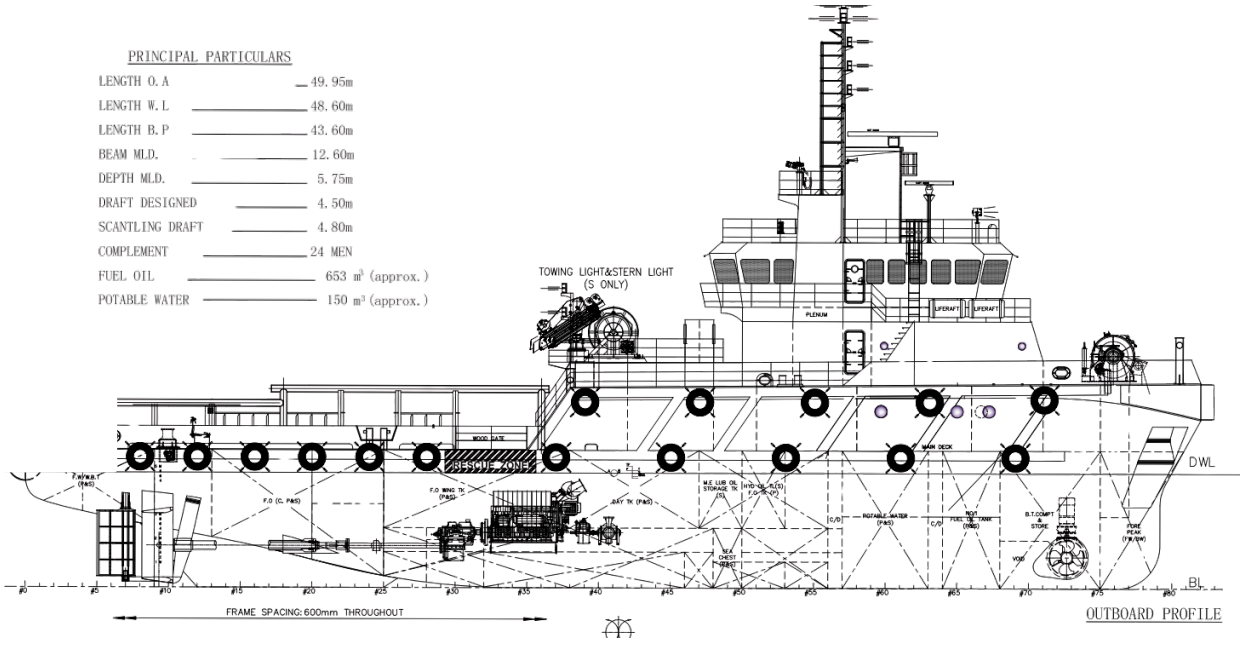
SAFETY EQUIPMENT

FiFi Class 1 System Pumps:	2 x seawater fire pump 1,500m³ / hr @ 14kg / cm2 | 2x Fire Monitors
Fireman's Outfit:	4 x complete sets
Fire Blanket:	2
Fire Axe:	2
Emergency Fire Pump:	1 x 25m³ / hr @ 45m head
CO2 System:	1 unit x gas bottles c/w quick operated valves and auto alarms to be provided for engine room fire and Bow Thruster room fighting
G.S & Fire Pump:	1

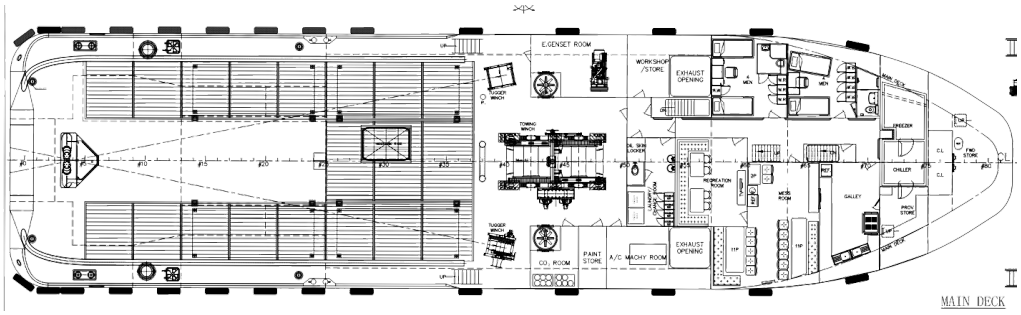
GENERAL ARRANGEMENTS

PRINCIPAL PARTICULARS

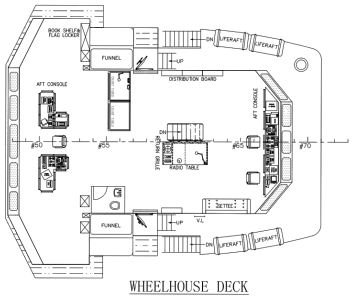
LENGTH O. A	49. 95m
LENGTH W. L	48. 60m
LENGTH B. P	43. 60m
BEAM MLD.	12. 60m
DEPTH MLD.	5. 75m
DRAFT DESIGNED	4. 50m
SCANTLING DRAFT	4. 80m
COMPLEMENT	24 MEN
FUEL OIL	653 m³ (approx.)
POTABLE WATER	150 m³ (approx.)



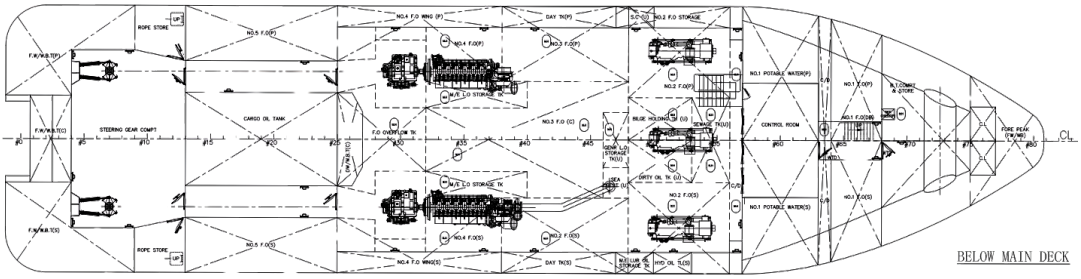
OUTBOARD PROFILE



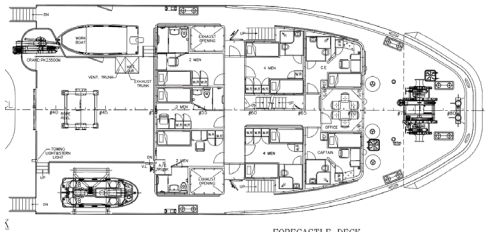
MAIN DECK



WHEELHOUSE DECK



BELOW MAIN DECK



FORECASTLE DECK

All particulars are believed to be correct but without guarantee