

TUG/ UTILITY VESSEL

Year Built : 2008
Type : Tug/Utility Vessel



DIMENSION

Length Overall : 45.00 m
Length Waterline : 42.75 m
Length Between : 40.00 m
Perpendicular
Breadth Moulded : 11.00 m
Depth Moulded : 4.00 m
Draft Moulded : 3.20 m
GRT : 496 MT
NRT : 149 MT
Deadweight :

PERFORMANCE

Maximum Speed : 12.0 Knots @ 12 MT / 24hr
Economical Speed : 10.0 Knots @ 8 MT / 24hr
Type of fuel : Marine Gas Oil

CARGO CAPACITIES

Clear Deck Area : 210 m²
Fuel Oil : 275 m³
Fresh Water : 150 m³
Lube Oil : 1 m³
Freezer : 3 m³
Chiller : 3 m³
Foam : 12 m³
Detergent : 12 m³

PROPULSION SYSTEM

Main Engine : 2 x Cummins @ 1600 BHP; Total 3200 BHP
Main Generator : 2 x Caterpillar @ 280 KW
Harbour Genset : 1 x 25 kW
Bow Thruster : 1 x 5 MT
Steering Gear : 1 x Electro-hydraulic type with approx. 3.0 MT
Propulsion : 2 x Fix Pitch Propeller Type with Kort Nozzle
Rudders : 2 x Large Streamlined Double Plate Rudder

DECK EQUIPMENT

Windlass : 1 x Electro-hydraulic Ø 24 mm rated 2.4 MT @ 10 m/ min 1st layer
Anchor : 2 x 780 kg Stockless Anchor
Anchor Chain : 6 shackles port & 7 shackles starboard
Capstan : 1 x 5 MT @ 15 m/ min
Tugger Winch : 1 x 5 MT @ 15 m/ min
Deck Crane : 1 x 1 MT @ 15 m electro hydraulic telescopic booms

FIRE FIGHTING EQUIPMENT

External

Fire pump : 1 x 1200 m³/ hr at 13 bar
Fire monitor : 2 x 600 m³/ hr

Internal

Fixed System in E/R: CO2 system in engine room
Fire Detection : All living space and Engine Room System

OTHERS

Rescue Zone : Port & Starboard Side
Oily Water Separator: 1 x 0.5 m³/ hr @ 2 kg/ cm² head
Sewerage : 1 x 28 men
Treatment Plant

TOWING EQUIPMENT

Tow Winch : 1 x Hydraulic Winch of Single Drum with capacity of Ø 42 mm x 1000 m
Remote control from aft control stands in wheelhouse
Rated Pull : 40 MT @ 5 m/min – Low Speed
(1st Layer) : 8 MT @ 15 m/min – High Speed
Braking Capacity : 100 MT
Stern Roller : 1.6 m Ø and 3.5 m long w/ SWL 150 MT

DISCHARGE RATES

Fuel Oil : 1 x 50 m³/ hr @ 50 m head
Fresh Water : 1 x 50 m³/ hr @ 50 m head

NAVIGATIONAL /COMMUNICATION

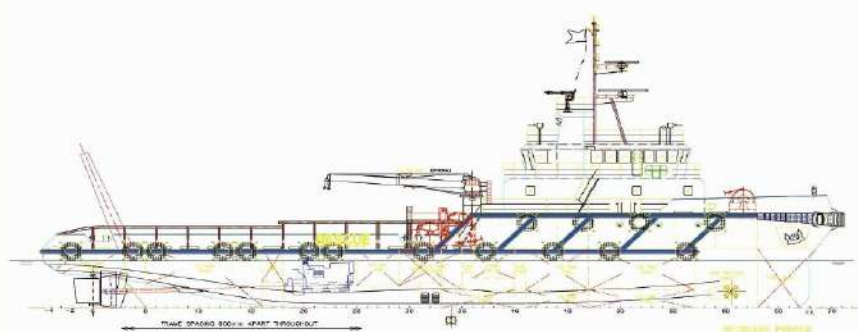
GMDSS : A1 + A2 + A3
GPS Navigator : 1 x JRC
SART : 2 x ACR
Inmarsat C : 1 x JRC
Satellite EPRIB : 1 x ACR
VHF Radio : 1 x JRC
Portable VHF Radio: 3 x ACR
Navtec Receiver : 1 x JRC
Radar : 1 x JRC
Echo Sounder : 1 x JRC
GPS Plotter : 1 x JRC
Autopilot : 1 x TMQ
Magnetic Compass : 2 x Saura

ACCOMMODATIONS

Berths : 2 x 1 berth cabin = 2
3 x 2 berth cabin = 6
5 x 4 berth cabins = 20
Total : 28
All cabins are fully air-conditioned

LIFE SAVING APPLIANCE

Search Lights : 2 x 1000 W
Floodlights : 3 x 1000 W
Liferafts : 2 x 25 men inflatable
Lifebuoys : 8 pcs with buoy lights
Life jackets : 28 pcs
Rescue boat : 1 x 6 men rigid c/w 25 hp outboard motor and david launching
Emergency Escape : 6 pcs



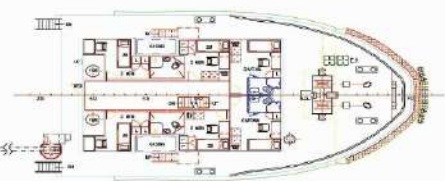
RIGHT SIDE ELEVATION



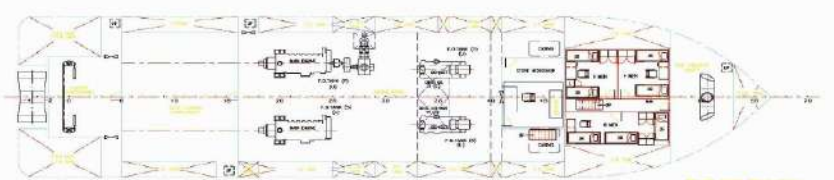
MIDSHIP DECK PLAN



MAIN DECK PLAN



FOREPART DECK



BOTTOM DECK PLAN

PRINCIPAL DIMENSIONS

LENGTH OVERALL	60.25 M
LENGTH BETWEEN PERPENDICULARS	47.75 M
LENGTH AT BULKHEADS	48.25 M
BREADTH BEHIND FORECASTLE	7.15 M
BREADTH AT MAIN DECK	1.55 M
BREADTH AT BOW	2.25 M

DISPLACEMENT (SEA)	120 T
SEA SWING	3 x 100 DEG
WIND (OVERALL)	120 KM/H
WIND (DECK)	80 KM/H
WIND (HULL)	50 KM/H