



MARIN TEKNIKK
DESIGN & ENGINEERING



“TBN” MULTIPURPOSE FIELD SUPPLY VESSEL & PIPE CARRIER

Type: MT6015 MPSV (2232)
Yard: Shinan Heavy Ind. Co., Ltd - (Build no.: 1011)
Delivery: 2nd Q 2013
Owner: TBN

The vessel is a Field Supply Vessel & Pipe carrier, with diesel electric frequency controlled propulsion, highly efficient azimuth thrusters and a dynamic positioning system.

MT DESIGN IS KNOWN FOR:

Excellent speed and seakeeping properties, environment-friendly ships, reduced fuel consumption, reduced exhaust emission, high safety level, low sound and vibration level.

GREEN SHIPS IN ANY COLOR



The vessel is designed according to the class notation "Clean Design", and high focus is given to reduced fuel consumption, which also means lesser emission to the environment.

The vessel is designed to fulfil the following duties:
Supply and transport of equipment to and between offshore platforms and offshore installations such as:
Pipes, Cargo/Containers, dry bulk, LFL*, Liquid Mud, Brine, Fuel Oil, Fresh water, Drillwater.

// TECHNICAL SPECIFICATION

MAIN DIMENSIONS

Length o.a.:	93,80 m
Length b.p.p.:	86,75 m
Breadth mld.:	20,00 m
Depth Main deck:	8,0 m
Depth Shelter deck:	10,85 m
Max draught:	6,5 m
Corresponding Freeboard:	1,5 m

CLASS/AUTHORITIES

DNV + 1A1, E0, SF, Dynpos AUTC, CLEAN DESIGN, COMF-V (rating 3), DK(+), hl(2,5),LFL*, NAUT OSV (4), Ice C, Oil Recovery acc. to DNV and NOFO 2009 guidelines.

SPEED

Trial speed: min.15.0 knots

TONNAGE

Gross Tonnage (GRT): ~4750
Net Tonnage (NRT): ~1900

ACCOMMODATION

Accommodation for 25 persons,
13 x 1 man cabins, 6 x 2 men

CARGO CAPACITIES

Deadweight at max draught: 4800 t
Normal deck config.:
Cargo deck free length: 66.8 m
Cargo deck area: 1060 m²
Cargo deck max width: 15.85 m
Main d. load fr-1 to fr58: 10 t/m²
Main d. load fr58 to fr108: 5 t/m²
Deck cargo w/SF notation:
Deck cargo: (VCG=1m)= ~3500 t

MAIN ENGINES/GENERATORS

Alternative Config.:
4 of Cummins, each 1700 kW
Total: 6800 kW
Diesel electric propulsion system.
Frequency control of el.motors.

EXHAUST GAS CLEANING

Selective catalytic reduction converter system for main engines.

THRUSTERS FORE BODY

2 of CP tunnel thr., 925 kW ,
1 of Retract. thruster, 880 kW.
El. driven, frequency controlled.

MAIN PROPELLERS

2 of RRM Azimuth propellers, each 2200 kW,
El. driven, frequency controlled.

HARBOUR/EMERG.GEN.SET

1 of Cummins, 295 kW

DECK EQUIPMENT

Windlass/Mooring:
2 of A-rim 10 t
Mooring: 2 of 10 t
Tugger: 2 of 10 t
Deck crane:
1 of 3 t at 16 m
1 of 2 t at 10 m
6 of Cargo securing winches: 3/5 t

ROLL REDUCTION SYSTEM

A passive anti-roll system.
2 of roll reduction tanks at Boat deck.

LIFE SAVING EQUIPMENT

Liferafts:
2x25 pers. each side
Rescue Mob Boat: Waterjet driven
L.o.a.: ~6.6m
Survival suits for 25 men+6 for MOB boat crew.
Safety Equipment: Acc. to Flagstate/SOLAS for 25 persons.

CARGO TANK CAPACITIES

Fresh water: 1005m³
Fuel Oil: 1030m³
Liquid Mud: 1168m³
Liquid Mud(incl.comb.tks): 1787m³
Brine: 790 m³
Brine:(incl. comb. tks.) 1164 m³
Methanol/Special prod 376m³
W.B./Drill Water: 2700 m³
Bilge water storage: 30 m³
Miscellaneous tks.: 160 m³
Dry Bulk tks.(6x55m³) 330 m³
O.R.O: 2380 m³

CARGO PUMP CAPACITIES

Fresh Water, two spindle screw
2 of 0-150 m³/h 90 MLC
Fuel Oil, two spindle screw
2 of 0-150 m³/h 90 MLC
Liquid Mud, eccentric screw
4 of 0-100 m³/h 90 MLC
Brine, eccentric screw
2 of 0-100 m³/h 90 MLC
Methanol, Centrifugal pump
2 of 0-75 m³/h 90 MLC
Special Product, eccentric screw pump
2 of 0-75 m³/h 90 MLC
Ballast/DrillWater, two spindle screw
2 of 0-150 m³/h 90 MLC
Cement/Bulk Discharge Cap.: ~ 75-90 t/hr.
O.R.O Pump Capacities:
Liquid Mud:
4 of 0-100 m³/h 90 MLC

Brine:

2 of 0-100 m³/h 90 MLC
Methanol:
2 of 0-75 m³/h 90 MLC
Special Product:
2 of 0-75 m³/h 90 MLC

INERT GAS SYSTEM

Nitrogen generator with bottle rack.

AGITATORS

Hydraulic agitator in liquid mud tanks.

HYDRAULIC POWER PACK

According to Cargo pump configuration and NOFO 2009.

FLOW METERS

Flow meter for fuel oil cargo and fresh water cargo.

INCINERATOR

For burning waste, sludge and dirty oil. OPTION.

CONTROL AND NAVIGATION EQUIPMENT

DP System: DP II
Thr. Control
IAS.
Radar Equipment:
10 cm 1 of
3 cm 1 of
Satellite Navigator: 1 of
Chart System: 2 of
Compass System:
Gyro 3 of
Autopilot: 1 of
Echo Sounder: 1 of
Speed Log: 1 of
Radio Plant: 1 of
VHF/DSC: 1 of
Inmarsat C
Inmarsat F
Automatic Ident. System
Beacon equipment according to class.
Life Boat Transmitter.
UHF: 4 of
VHF: 3 of
Mobile Phone: 3 of

LOADING COMPUTER

Marin Teknikk: MT-ShipLoad

CONSUMPTION

Econ. Speed ~12 kn. ~13 t/day
Econ. Transit ~10 kn. ~10 t/day
DP Operations ~5 t/day
Port ~0,8 t/day