

87.90m Platform Supply Vessel



87.90m Diesel Electric Platform Supply Vessel

PRINCIPAL PARTICULARS

Length Overall (m)	87.90
Length Waterline (m)	79.40
Breadth Moulded (m)	19.00
Depth Moulded (m)	8.00
Draft (Design)(m)	6.60
Place of Construction	ASL SHIPYARD, SINGAPORE
GRT	4075
Class	Det Norske Veritas-Germanischer Lloyd (DNV-GL)
Notation	DNV ✱1A1, SF, E0, DYNPOS-AUTR (IMO-II), DK(+), HL(2.8), CLEAN DESIGN, NAUT-OSV(A), COMF-V(3), OILREC, FI-FI-1, LFL*
Flag	Singapore
Port of Registry	Singapore
Official Number	399974
Call Sign	9V3284
Year of Completion	2015

PERFORMANCE

Maximum Speed (kts)	14
Economical Speed (kts)	12
Type of Fuel	Marine Diesel

CARGO CAPACITIES

Deadweight	4700t @ 6.60m
Deck Cargo	2600t approx.
Deck Strength (mt/m ²)	10t/m ² aft of Fr.30, 5t/m ² fwd of Fr.30
Clear Deck Area (m ²)	1000
Ballast/Drill Water (m ³)	2,563
Fuel Oil (m ³)	1,203
Potable Water (m ³)	808
Liquid Mud/Brine (m ³)	967 (SG2.8)
Dry Bulk (m ³)	318
Base Oil (m ³)	403
Methanol (m ³)	161
ORO (m ³)	707

CARGO PUMP CAPACITIES

Fuel Oil Cargo	Capacity: 2 x 250m ³ /hr, Frequency controlled
Fresh Water Pump	Capacity: 2 x 250m ³ /hr, Frequency controlled
Liquid Mud/ORO	Capacity: 2 x 100m ³ /hr, Hydraulic driven
Brine Pump	Capacity: 1 x 100m ³ /hr, 2-speed
Base Oil Pump	Capacity: 1 x 100m ³ /hr, 2-speed
Ballast/Drill Water Pump	Capacity: 1 x 250m ³ /hr, Hydraulic driven
Methanol Pump	Capacity: 2 x 75m ³ /hr, Hydraulic driven

Flowmeters installed for Fuel Oil and Fresh Water

All mud/brine tanks have agitators installed. Tank washing system with hot water for mud, brine and base oil tanks.

AUX MACHINERY/SYSTEMS

Cargo Control System	1 x complete system for control and monitoring, integrated with vessel monitoring system
Tank Cleaning System	1 x complete system with hot water for mud tank cleaning
Oily Water Separator	1 x OWS, 2.5m ³ /hr, Approved to IMO Resolution MEPC 107(49)
Sewage Treatment Plant	1 x STP Unit approved to IMO Resolution MEPC 159(55)
Waste Compactor	1 x unit, 9t force capacity S/ST version, 0.2m ³ capacity
Incinerator	1 x unit approved to IMO Resolution MEPC 76(40)
Ballast Water Treatment	1 x unit of capacity 250m ³ /hr approved to IMO Resolution MEPC 174(58)

PROPULSION PLANT

Main Generators	4 x 1550kW@0.8pf, 1800RPM, 690V/3/60Hz
Propulsion Propeller	2 x 360° Azimuth-Drive Propeller, 3+3 blade, Fixed Pitch, Rating – 2500kW each
Propulsion Drives	2 x AC asynchronous motor, Frequency Converter, 2500kW, 690V/60Hz
Bow Thrusters	2 x Tunnel Thrusters 880kW Frequency Drive Electric Motor Driven, Fixed Pitch
Emergency Genset	1 x 100kW@0.8pf, 1800RPM, 440V/3/60Hz

DECK EQUIPMENT

Anchor Windlass	2 x Electrical Frequency driven Anchor Windlass suited for 46mm K3 Anchor Chain
Anchor	2 x HHP Anchors, 3550kg each
Chain	46mm dia. NV K3 High Strength Steel
Capstan	2 x Electrical Frequency driven Vertical type Capstan
Rated Pull	8T x max 24m/min
Tugger Winch	2 x Electrical Frequency driven
Rated Pull	8t x max 20m/min
Deck Crane	2 x Deck Crane
Capacity	5t @ 10m / 1t @10m outreach

RADIO/NAVIGATION EQUIPMENT

Radar, X-Band	1 x 3cm Chart Radar, Furuno FCR-2127 96NM, 23" TFT LCD
Radar, S-Band	1 x 10cm ARPA Radar, Furuno FAR-2137S 96NM, 23" TFT LCD
Slave 19" TFT LCD for Aft Bridge Mounting	
GPS	1x Furuno GPS-150
DGPS	1x Furuno GPS-150
ECDIS	1x Dual ECDIS, Furuno TECDIS 2x 23" TFT LCD 2x 19" TFT LCD Aft Bridge
Gyro	1x Triple Gyro Anschutz STD22
Autopilot	1x Pilotstar D System
Magnetic Compass	1x Magnetic Compass Binnacle REFLECTA
Echo Sounder	1x Furuno FE-700
Speed Log	1x Furuno DS-80 DOPPLER Type
AIS	1x Furuno FA-150

SPECIFICATION SHEET

GMDSS	VHF-FM Radio Telephone 2 x Semi-Duplex VHF System R/T Complete Set Duplication for Sea Area 1-2-3 Complete Set
Inmarsat Complete Set	SSAS Inmarsat C Ship Security Alert System Semi-Duplex Marine VHF
NAVTEX	International NAVTEX service w/ printer to meet requirements for GMDSS
Course Recorder	IMO Type approved
Wind Monitor	3 x Wind Monitors to comply with DPS-2
VDR	IMO type approved Voyage Data Recorder
EPIRB	1 x Satellite EPIRB Complete Set
SART	2 x GMDSS Search & Rescue Transponder
VHF Radio	Three (3) units, 2.5W, 25kHz, 19 channels Waterproof GMDSS VHF

INTERNAL COMMUNICATIONS/ENTERTAINMENT

Sound Powered Internal Communications	Batteryless Telephone system Integrated PA/GA Intercom c/w Talkback , PABX integrated to PA/GA system. System redundancy, Light columns. SOLAS approved system
Satellite TV	1 x TV Aerial antenna, outlets to all cabins & Public areas
VSAT/LAN	1 x Ku Band VSAT antenna
Fleet Broadband	1 x Fleet Broadband High speed data function

DYNAMIC POSITIONING SYSTEM

DPS-2 Dynamic Positioning System	2 x DP Operator Station 1 x Independent Joystick System 1 x Portable Joystick c/w 3 docking stations 2 x Uninterruptable Power Supply 2 x High Speed Printer	D
Position Reference	1 x High Precision Laser Positioning 1 x Microwave reference system 2 x DGPS Sensors 3 x Motion Reference Units 3 x Wind Sensors	

FIRE PROTECTION/FIGHTING EQUIPMENT

EXTERNAL

Fire Fighting Pumps	2 x Engine driven front PTO pumps, Capacity 1500m ³ /hr @140m Head
Fire Monitors	2x Stainless/Bronze housing, Remote controlled, 360° turning capability 1200m ³ /hr, Inlet Pressure @ 12bar

INTERNAL

Emergency Fire Pump	1 x Horizontal Self Priming Centrifugal Pump, Capacity 35m ³ /hr @ 60m head
BA Recharging Comp	1 x 260ltr/min @ 200/300 bar approx.
CO ₂ Protection System	Complete system in Engine Room designed to DNV regulations
Fixed LAFF	Local application fire-fighting in Engine Room
Fire Detection/Fire Alarm	Complete system for vessel designed to DNV regulations & SPS requirements

SAFETY EQUIPMENT

Life Rafts	6 x SOLAS Approved Inflatable Liferrafts, each of Capacity 16 men stored in outside cradles
Fast Rescue Boat	1 x SOLAS Approved Fast Rescue Boat c/w launching davit
Lifebuoys	8 x lifebuoys as per SOLAS requirements
Lifejackets	32 x lifejackets as per SOLAS requirements
Immersion Suits	32 x SOLAS Approved type
H2S Alarm	Approved H2S detecting sensors & Monitoring system

ACCOMMODATION

Berths	10 x One (1) berth cabins	10 Men
	<u>04 x Two (2) berth cabins</u>	<u>08 Men</u>
	Total	18 Men
Passengers	<u>02 x Four (4) berth cabins</u>	<u>08 Men</u>
	Total	08 Men
Sick Bay	1x bed with well-equipped facilities	

All cabins are fully air conditioned, well equipped

OTHER FACILITIES

Internet Access	Fully Wireless throughout vessel, LAN connections in all cabins and offices.
Day Room	2x dayrooms, with 1x equipped for smoking
Mess Room	1 x for 20 person seating capacity
Offices	1 x Client Office
Meeting Room	1 x Meeting Room integrated with Client Office
Gymnasium	1 Provided
Common Toilets	2 x in accommodation
Workshop	1 x Steel workbench, 2 x 400A welding transformer, 1x Eye wash station
Laundry	2 x 10kg washer, 2 x 10kg dryers
Changing Room	26 lockers provided

General Layouts

