



Unit : Prometheus (# H206)
Type: : SSCV – Semi Submersible Construction Vessel
Flag : Marshall Islands
Class : ABS
Built : 2013
Rig Operator : Bluewhale Offshore
IMO Number : IMO 8769781
Email : marketing@bluewhaleoffshore.com



Unit Specifications

Registered Name	Prometheus (# H206)
Unit Type	Semi-Submersible Accommodation/Crane Vessel
Unit/Design/Shape	CIMC Raffles SSCV Design
Unit Flag	Marshall Islands
Unit Classification	ABS; A1; Column-Stabilized Unit; Accommodation Service; Crane Service; UWILD
IMO Certification	IMO 8769781
Year of Construction	2013
Construction Yard	Yantai CIMC Raffles Offshore Ltd
Type of Positioning System	12 point spread moored / anchor moored

Main Dimensions/Technical Description

Weight (light ship)	23,100 tonne
Displacement at Loadline	52,300 tonne
Draft at Loadline	23 meter
Hull Length	118 m (main deck 80 m)
Hull Width	70 m
Hull Depth	38 m (BOS to main deck)
Transit Draft	7.8 meter
Survival Draft and Airgap	20 m draft / 13 m airgap

Storage Capacities

Fuel	1,800 m ³
Potable Water	2,100 m ³
Deck Load Capacities	Net Deck Area: 2000 m ² Port hull deck: 3 tonne/m ² STBD hull deck: 3 tonne/m ²

Propulsion/Thrusters

Propulsion/Thrusters	N/A. Prometheus is towed and spread-moored
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Operational Capabilities

Maximum Water Depth	1,000 m
Transit Speed	Towed

Variable Deck Load

Variable Deck Load Capacity	Flotel service: 5,000 t @ 23 m draft Crane service: 2,970 t @ 23 m draft Survival: 5,000 t @ 20 m draft Transit: 5,000 tonne @ 7.8 m draft
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Environmental Limits

Environmental Limits - Design	Design limit H _s = 12 m Towing limit: H _s = 3 m Sea water temperature: 0°C to 32°C Outside air temperature: 0°C to 40°C Structure design temperature: -10°C
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Mooring System

Anchor Winches & Anchors	12 point mooring system with 12 JLW (Jiangsu Li Wei) single drum winches; Each @ 150 t 12 sets of mooring lines; SWR @ Ø76 x 2500 m; Each with a breaking load (MBL) of 5,000 kN 12 each 15 tonne anchors and 2 each x 15 tonne spare anchors Pre-laid moorings in water depths 200 m to 1000 m Anchor deployment in water depths 35 m to 200 m Four (4) SMIT tow brackets for towing; Each with SWL of 500 t Eight (8) Ingersoll Rand tugger winches; Each with capacity of 10 tonnes @ 15 m/min Eight (8) bollards; Each with SWL 200 t
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Ballast System

Ballast System	Two (2) centrifugal self-priming ballast pumps; Each with a capacity of 650 m ³ /hr @ 5 bar Six (6) centrifugal self-priming ballast pumps; Each with a capacity of 300 m ³ /hr @ 5 bar Four (4) ejectors; Each with a capacity of 115 m ³ /hr @ 4 bar The ballast control system is designed and arranged such that the system can take suction from and de-ballast any ballast tank under normal operating and transit conditions
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Cranes, Hoist And Material Handling

Cranes	Offshore Mast Crane; Fixed lifting capacity of 1,100 tonne @ 18 to 36 m; 600 tonne @ 18 to 51.5 m when slewing; Max. lifting height of 79 m above sea level at crane service draft of 23 m; Auxiliary hook capacity of 200 tonnes @ 22.4 to 84 m Main deck crane; 25 tonne @ 10 m; 10 tonne @ 30 m; Certified for man-riding Two (2) provision cranes; Each 10 tonne @ 25 m One (1) telescopic hydraulic gangway 36.5m (±6m) long
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Helicopter Landing Deck

Dimensions	D-Value = 22.8 x 1.15 = 26.2 m
Deck Load Capacity	As per CAP 437
Refueling System	Helifuel system with three (3) helifuel tanks. Pump and filling system in accordance with regulations
Designed For Helicopter Type	Westland EH101 or equivalent

Auxiliary Equipment

Water Maker	Three (3) reverse osmosis type water makers; Each with a capacity of 70 m ³ /day (@ seawater temp of 25 °C)
Cargo Transfer Pumps	Two (2) fuel oil transfer pumps; Screw pump type; Each with a capacity of 25 m ³ /hr @ 6.5 bar

Power Supply Systems

Vessel Power Plant	Four (4) Caterpillar / 3516B diesel driven generators; Each with 1,825 kWe continuous rating @ 1,800 rpm and 0.8 pf; 3 Phase / 460 V / 60 Hz
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Power Supply Systems

Compressed Air Systems Two (2) DENO / L3-56 air-cooled 2 stage / 2 cylinder air compressors; Each with a capacity of 66 m³/hr @ 30 bar; 18 kW / 3 Ph / 440 V / 60 Hz motors
 Two (2) Atlas Copco / GA160VSD variable speed drive screw type marine service compressors; Each with a capacity of 1,500 m³/hr @ 8 bar; Incl. air dryers for service and instrument air
 Two (2) twin air receivers; Each 3 m³ @ 8 bar

Emergency Generator One (1) Caterpillar / 3512B diesel driven emergency generator; 1,300 kW @ 1,800 rpm and 0.8 pf; 3 Phase / 460 V / 60 Hz

Instrumentation/Communication

Vessel Communication System Emergency GMDSS station (@ Heli Admin)
 Two (2) SART radio transponders
 EPIRB radio transponder
 Three (3) GMDSS VHF portable radios
 Fleet Broadband (Fleet77) terminal with standard capacity of voice, data and fax
 Navtex Receiver
 Non-directional Beacon for helicopter traffic
 Fixed FM aviation radio with antenna unit
 Two (2) aviation specific VHF radios (portable)
 Fixed VHF/FM marine radio
 Six (6) portable VHF radios
 Seven (7) VHF/FM Marine radios
 Ten (10) two-way portable VHF radios
 Ten (10) SART radar transponders
 Twelve (12) portable UHF transceivers
 Eight (8) fixed UHF transceivers
 SSB radiotelephone system
 PAGA system A & B
 Sound power telephone system
 PABX exchange with required internal line capacity
 Entertainment system with a Satellite TV antenna
 CCTV-supervision system; 12 cameras

Navigation Instrumentation Echo sounding system
 165 mm reflect magnetic compass
 IMO approved AIS system
 Weather station system
 Weather facsimile receiver
 DGPS navigator
 Relative/true motion marine radar with ARPA; 10 cm wave; S-band
 Relative/true motion marine radar with ARPA; 3 cm wave; X-band

Accommodation

Offices Ten (10) offices; Each with 2 or 3 working stations
 Client Office with 4 working stations

Living Quarters 500 PAX capacity
 Single cabins: 2
 2 men cabins: 15
 3 men cabins: 68
 4 men cabins: 66

Safety Equipment

Gas/Fire/Smoke Detection One (1) combustible gas and H₂S detection system with combustible gas sensors and H₂S sensors
 One (1) fire detection system

Fire Fighting Two (2) centrifugal firewater pumps; Each with a capacity of 360 m³/h @ 14.3 bar; Drive motors 288 kW; 440 V / 60 Hz
 Two (2) centrifugal jockey pumps; 3 m³/h @ 11 bar; Drive motors 2.53 kW; 440 V / 60 Hz

Survival Equipment Lifeboats: 10 units; Each with capacity of 104 PAX
 Liferrafts: 25 units; Each with capacity of 20 PAX
 FRC/MOB: 1 unit with capacity of 6 PAX

Pollution Prevention Equipment

Sewage Treatment Two (2) EVAC vacuum type sewage treatment units; Capacity for 2 x 270 PAX complement

Garbage Compaction/Disposal ORWAK multi-chamber compactor and glass crusher

Oily Water Separator One (1) Taiko Kikai / USH-20 oily bilge water separator; 2 m³/hr; MEPC 107(49)

Reviewer's Notes:

