



# GPM APOLLO

DP2 IMR/SUBSEA VESSEL, 1000m<sup>2</sup> Deck, ABS



### Overview / Introduction

GPM Apollo is an ABS-class IMR vessel (built 2014, Singapore flag), upgraded with a 160T lattice-boom crane (100-150t AHC Knuckle Boom Crane Optional), helideck and a gangway (optional). POB expanded from 90 to 202. Equipped with Kongsberg DP-2 (K-Pos DP-21 with cJoy), ~1,000 m<sup>2</sup> clear deck (7.5 t/m<sup>2</sup>), FiFi 1, oil recovery systems, and full hospital, the vessel delivers IMR and walk-to-work capabilities.

### General Specifications

Specification	Details
Length Overall	86.00 m
Length BP	75.60 m
Breadth	20.00 m
Depth	9.00 m
Draft (Max)	7.30 m
Deadweight (DWT)	4,900 T @ max draft
GT / NT	4,768 / 1,430
Deck Area	1,000 m <sup>2</sup> (7.5 t/m <sup>2</sup> strength)
Classification	ABS ⚡A1, Offshore Support VSL, DPS-2, Oil Recovery, SPS Code. ABS Class notation: ⚡A1, Offshore Support VSL, AMS, ACCU, DPS-2, ENVIRO, GP, BWT, FiFi VSL Class 1, Oil Recovery Capability, Supply, SPS Code, UWILD. Dynamic Positioning: Kongsberg K-Pos DP-21 with cJoy joystick.
Flag / IMO	Singapore / IMO 9647045

### Deck Equipment & Construction Capability

Equipment	Specification
Deck Crane	160T Lattice Boom Crane or 100-150T AHC Knuckle Boom Crane
Aux Crane	1 × Hydraulic 2t SWL @ 12 m Radius (Knuckle Boom)
Anchor Windlass	2 x Electro-Hydraulic c/w Hawser drum & Warping Head
Anchor & Chain	2 x HHP Anchor 3,060kg coupled to 440M x 50mm (U3) Stud Link Chain
Windlass Mooring Drum	2 off for 220m x 64mm PP Rope (18t @0~10m/min)
Mooring Lines	4x180M length each of 3it breaking strength
Tugged Winch	2 x Hydraulic driven 10t x 15m/min
Capstan	2 x Hydraulic driven Vertical mount 10t x 15m/min with Mooring Drum combination
Gangway	TBD

### Tank Capacities

Cargo Type	Capacity (m <sup>3</sup> )
Deck Strenght	7.5/m2
Clear Deck Area	Abt. 1000 m2
Fuel Oil	Abt. 1,700 m <sup>3</sup>
Fresh Water	Abt. 1,700 m <sup>3</sup>
Drill Water / Ballast	Abt. 1,700 m <sup>3</sup>
Brine	Abt. 700 m <sup>3</sup>
Base Oil	Abt. 200 m <sup>3</sup>
Recovered oil	Abt. 900 m <sup>3</sup>
Dry Bulk	Abt. 400 m <sup>3</sup>
Methanol	Abt. 200 m <sup>3</sup>

### Accommodation & Facilities

Capacity	202 men
Facilities	Full A/C, mess rooms, control rooms, offices, conference room, recreation room, gym.
Hospital	2 berth hospital.

### Propulsion & DP

System	Detail
DP Systems Class 2	Kongsberg K-Pos DP-21 with cJoy Independent Joystick System.
DP Sensors & Position Reference	3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 501, 1x DPS122, 1 x DPS112, 1x Inmarsat B/Fleet 77 demodulator, 1 x Radius 1000Q c/w Transponder 700, 1x CyScan Mk4.0, 1 x Tautwire Mk 15/500

### Performance & Consumption

Maximum speed	14 knots
Service speed	12.5 knots
Fuel Consumption - Full speed	Abt. 21.6 Tonne MDO/day
Fuel Consumption - Service Speed	Abt. 21.4 Tonne MDO/day
Fuel Consumption - In DP mode	Abt. 15.0 Tonne MDO/day
Fuel Consumption - In Port or at Anchores	Abt. 1.40 Tonne MDO/day

### Machinery

<b>Main Generator</b>	4 x Wartsila 6L.26 - 1,870kW 690V/60Hz, 900 RPM
<b>Power Drive - Main Propulsion</b>	2 x Wartsila 2,200kW Electric Steerable Thrusters
<b>Bow Thruster - Retractable</b>	1 x Wartsila 900KW Electric Drive
<b>Bow Thruster - Tunnel</b>	1x Wartsila 995kW Electric Drive
<b>Harbour Generator</b>	1 x 450kW"Cummins" or equivalent
<b>Emergency Generator</b>	1x 150kW"Cummins" or equivalent

### Radio & Navegation Equipment

<b>Gyro Compass</b>	3 Master x Tokimec - TG - 8000 or equivalent
<b>Auto Pilot</b>	Anschutz Pilot Star -D or equivalent
<b>GPS</b>	Furuno DGP - 150 Navigator or equivalent
<b>Echo Sounder &amp; Speed</b>	Furuno FE -700 or equivalent
<b>Radar</b>	Furuno - FR- 2117 & FR21375 or equivalent
<b>GMDSS Sea Area 3</b>	Furuno RC - 1800T or equivalent
<b>Public Addressor</b>	Vingtor CTB/SBA Talkback & PA system
<b>Telephone</b>	Vingtor ACM-AlphaCom Marine Integrated Telephone / Command System or equivalent
<b>BNWAS</b>	PANASIA Co Ltd
<b>Gyro Compass 3 Master x Tokimec - TG-8000 or equivalent</b>	Gyro Compass 3 Master x Tokimec - TG -8000 or equivalent

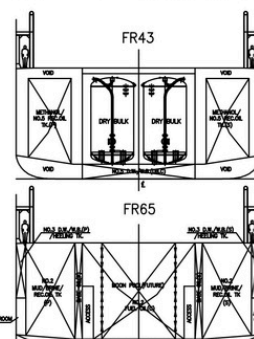
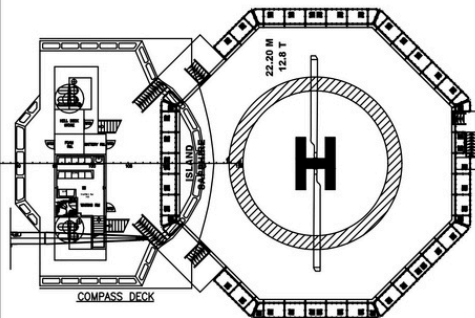
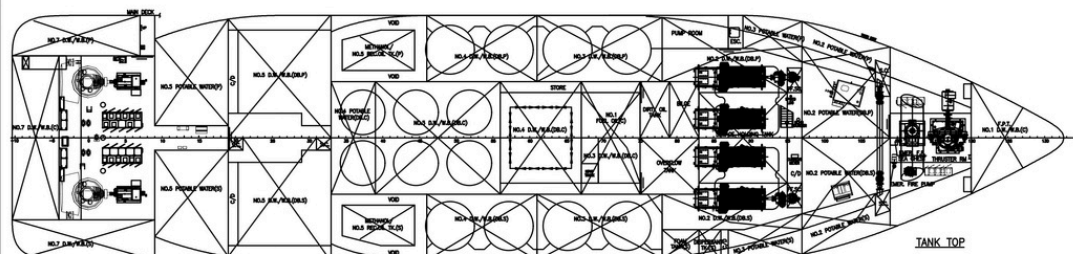
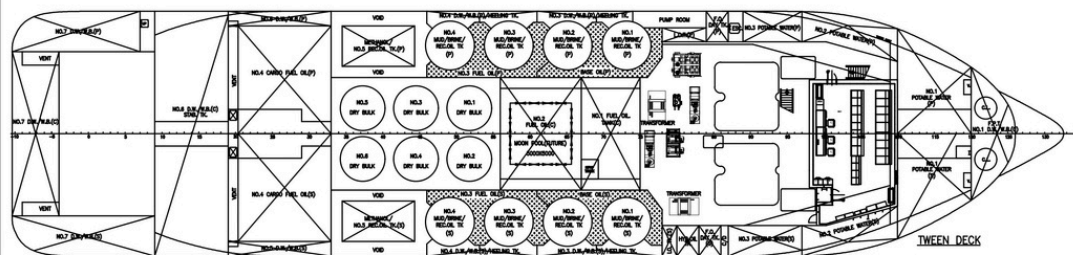
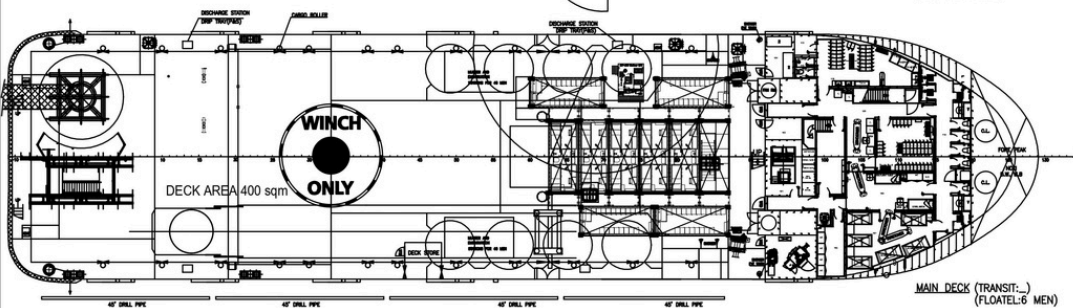
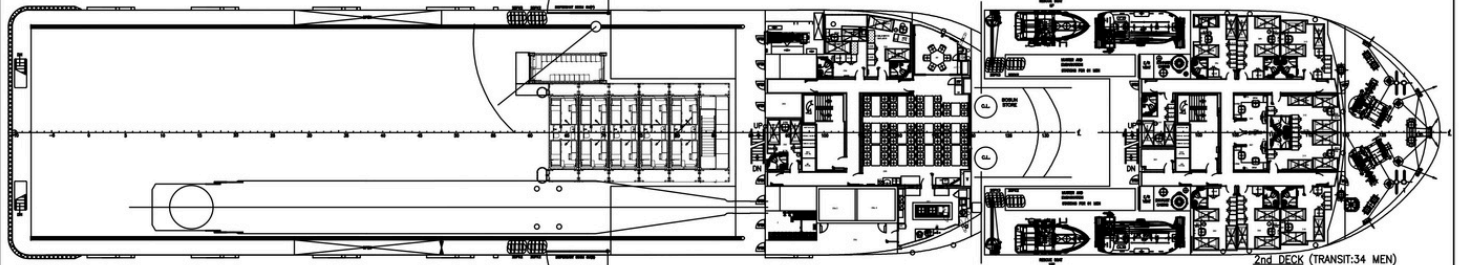
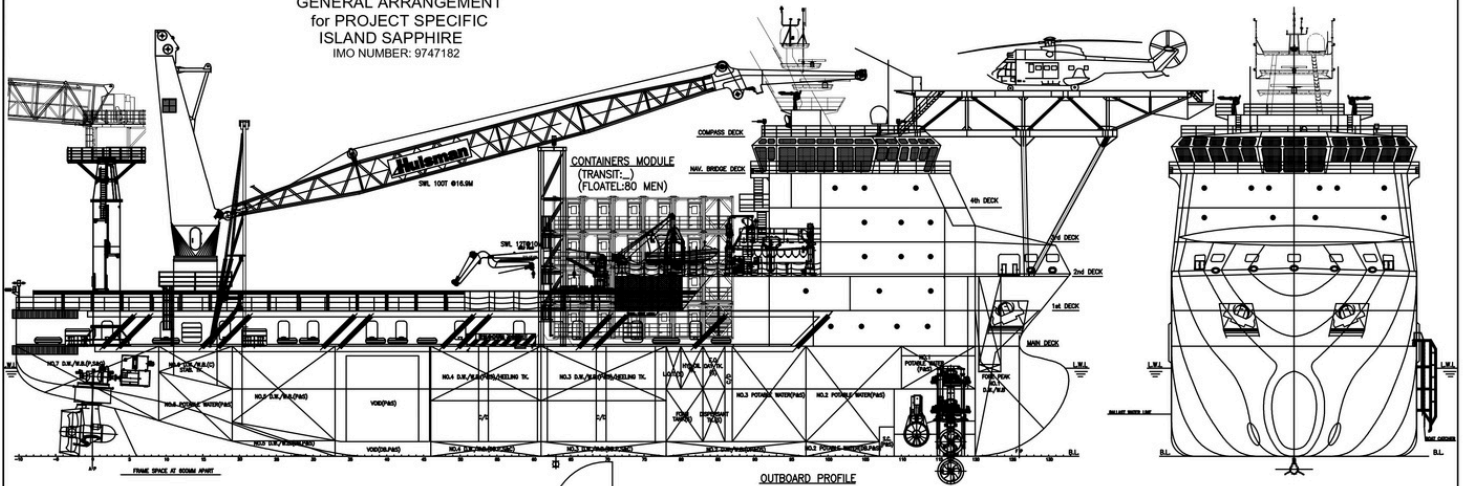
### Fire fighting equipment

Firemain	Firelines with 2" bronze hydrants
Fireman outfit	6 complete fireman's outfit to SOLAS requirement
Portable Fire Extinguisher	As per SOLAS Requirement
Fixed CO2 & Flexi - fog water	To be installed in Category A Machinery space
Extinguishing System	As per SOLAS and class requirement
Emergency Fire Pump	1x70m <sup>3</sup> /hr @ 70m Head
External Fifi 1	2 x front PTO driven Pump @1,880m <sup>3</sup> /hr

### Others

Dynamic Positioning System	Kongsberg - K-Pos DP-21 with c Joy Independent Joystick System
Ballast Water Treatment System	Minimum 120m <sup>3</sup> /hr
Sewage Treatment Plant	1 x CKST 40Men or equivalent
Oily Water Separator	1x HYN 15ppm c/w Alarm or equivalent
Water Maker	2 x SW-30T @40m /day Seawater RO
Helideck	MTOM 9.3 T, D-VALUE 22M

GENERAL ARRANGEMENT  
for PROJECT SPECIFIC  
ISLAND SAPPHIRE  
IMO NUMBER: 9747162



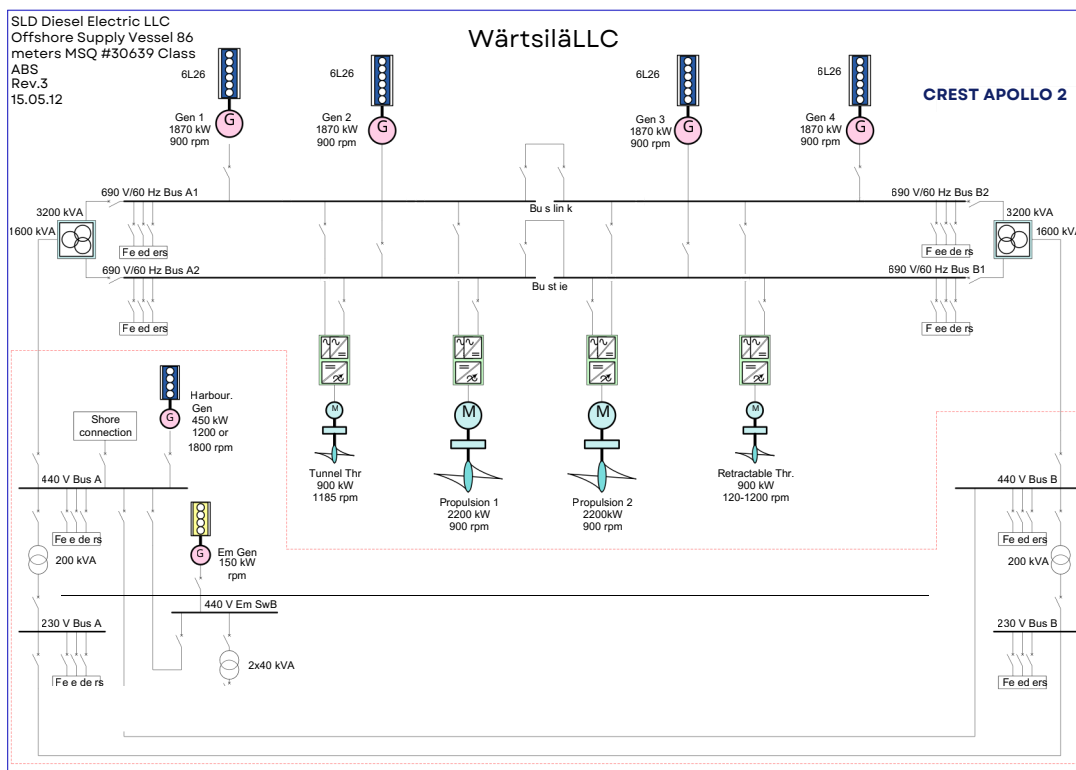
PRINCIPAL PARTICULARS & CAPACITIES

LENGTH OA	86.00 M	REC.OIL	1,018 M <sup>3</sup>
LENGTH BP	75.60 M	BASE OIL	239 M <sup>3</sup>
BEAM MLD.	20.00 M	MUD	781.6 M <sup>3</sup>
DEPTH MLD.	9.00 M	BRINE	761.6 M <sup>3</sup>
DRAFT DESIGNED	7.20 M	METHANOL	256.6 M <sup>3</sup>
DRAFT SCANTLING	7.40 M	D.W./W.B.	2,020 M <sup>3</sup>
COMPLEMENT	202 MEN	GENSET	1,800 KW X 4
SHIP FUEL OIL	1,764 M <sup>3</sup>	MAIN PROPELLER	2,200 KW X 2
CARGO FUEL OIL	754 M <sup>3</sup>	TRIAL SPEED	14.0 KTS
POTABLE WATER	1,001 M <sup>3</sup>	DK CARGO AREA	400 M <sup>2</sup>
CEMENT TANK	416 M <sup>3</sup>	CARGO DK LOAD	7.5 T/M <sup>2</sup>

NOTE: 1. THIS DRAWING WAS DERIVED FROM YC3233-001.

CLASS: ABS @ A1, OFFSHORE SUPPORT VESSEL  
 OPV1,  
 SSP-C1,  
 SPS,  
 SSR OR C 10/C,  
 AMS,  
 ACCU,  
 SPS-2,  
 RW,  
 UNLD

A1 REVISED AS PER YARD/CLIENT FEEDBACK		Z/A	16.05.2025
AD ISSUED FOR CLASS SURVEILLANCE		Z/A	WHD 06.05.2025
REV	MODIFICATION	BY	CHK'D DATE
PROJECT 86M DIESEL ELECTRIC PLATFORM SUPPLY / OIL RECOVERY / SAFETY STANDBY VESSEL "ISLAND SAPPHIRE"			
TITLE GENERAL ARRANGEMENT			
DRG NO: P8349-101-02-A1		SCALE: NTS	SIZE: A1
DATE: 07.05.25	DRAWN BY: Z/A	CHECKED BY: WAHD	
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BUILDER GUANGDONG YUEXIN OCEAN ENGINEERING CO. LTD	HULL NO. YK3233		
DESIGNER SeaTech Solutions International (S) Pte Ltd	PROJECT NO: P8349		



## Case 1 CREST APOLLO 1

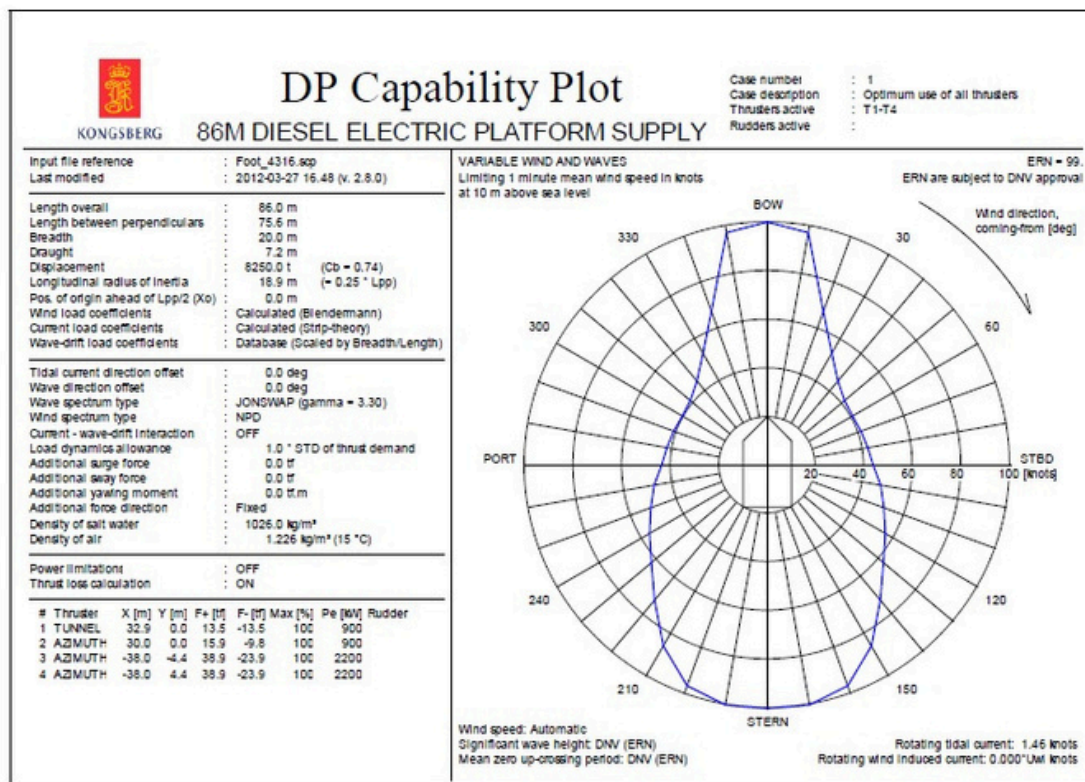


Figure 10: DP capability envelope for case 1.

Particulars are believed to be correct but not guaranteed.

Owners reserve the right to amend the specifications without notification