



## OVERVIEW

60 Berths in en-suite cabins
DP2 Positioning System
Built 2011
65MT, Active Heave Compensated Crane (Upgradeable to 70 MT)
200 m2 ROV Deck
928 m2 Deck Space
Helideck
Large Liquid & Dry Bulk Cargo Capacity
Fitted with Cinema, Offices, Recreation etc

**Vessel Specifications****60 Man / DP2 / 65MT AHC Crane / 928 m2 / MPSV****Principal Particulars**

Flag	TBD Upon completion of NCNDA
Built	2011
Length Overall	87.38 m
Length B.P	80.41 m
Beam Overall	19.00 m
Depth Moulded	8.00 m
Max operating Draft	6.55 m
Deadweight	4,683 tons

**Classification**

DNV +1A1 BIS CLEAN COMF(C-3, V-3) DK(+)  
 DYNPOS(AUTR) EO HELDK HL(2.8) OILREC  
 SF TMON

**Capacities**

Ship's Fuel Oil	293 m3
Fuel Oil Cargo	982 m3
Total Fuel Oil	1,370 m3
Potable Water	1,368 m3
WB/DW	862 m3
Mud	1,396.4 m3
Dry Bulk	379.8 m3 (7 x 54.3 m3)
Brine	449.7 m3
Base Oil	159.2 m3
ORO	1106.0 m3
Lube/Hyd storage	51 m3 / 6.2 m3
Sewage	13.5 m3
Bilge	13.5 m3
Deck Cargo Area	928 m2 (57.8 x 16.0 m)
Deck Cargo	1,940 tons @ 1m VCG
Cargo Deck Load	5.0 tons/m2
ROV Deck	200 m2 (10.5 x 19 m)
ROV Deck Load	3 tons/m2
ROV Cargo	600 tons @ 1m VCG
ROV Power	1,000 kW DB's 440/3/60

**Machinery & Propulsion Equipment**

Main Engines	2 x 3,000 kW (4,021 bhp each) Wartsila, each with 2,000 kW shaft alternator
Generators	2 x 320 kW diesel generators @ 440V, 3 Phase, 60Hz 1 x 250 kW emergency diesel generator, with harbour function
Propellers	2 x CPP
Bow Thruster	2 x Transverse Tunnel Thruster, 830 kW, Brunvoll
Stern Thruster	2 x Transverse Tunnel Thruster, 830 kW, Brunvoll
Subsea Crane	1 x 70MT TTS Norway Crane SWL 70MT (2,000m hook travel). Currently fitted with 2,400m main hoist wire; SWL 65MT (2,300m hook travel)  Main Hoist: - 65MT @ 11m, - 24.4MT @ 25m, - 2,300m hook travel  Active Heave Compensation: 65MT @ +/- 3m  Auxiliary Hoist: - 10MT @ 25m - 400m hook travel - Man-Riding - 0-50m/min hook speed @10MT  Tugger Winches - 2 attached units - SWL 3MT each - up to 30m hook travel
Auxiliary Crane	1 x 5MT @ 15m, fixed boom

**Vessel Specifications****60 Man / DP2 / 65MT AHC Crane / 928 m2 / MPSV****Normal Mooring Equipment**

Anchor Windlass	2 x 16MT @ 12.7m/min for chain - 20MT @ 10m/min (Low speed) - 5MT @ 33m/min (High) for mooring line
Anchor	2 x 3,540kg anchors stowed in anchor pockets
Chain Cable	Ø50mm steel grade NVK3
Mooring Lines	4 x 80 m mooring rope, MBL 29MT
Tugger Winch	2x 15MT @ 15.5m/min, 375m x 25 mm diameter wire
Capstan	2 x 10MT @ 0-19m/min, light speed @ 23m/min, variable speed control

**Dynamic Positioning System**

Type	Kongsberg, IMO Class DP2
Reference Systems	1 x Cyscan 2 x DGPS 1 x HiPAP 501 fitted 3 x Wind Anemometer
Acoustic Reference	A-Frame fitted on bow for reference transponder 3,500m wire on transponder winch 2 x HiPAP Trunks
Control	2 x DP Workstations at aft bridge 1 x Independent Joystick

**Navigation and Communication Equipment**

Compass, Autopilot, 3 x Gyrocompass, 2 x Radars, Echo sounder, Doppler speed log, Engine telegraphs, Automatic Identification System, Weather fax receiver, Voyage data recorder, GPS receiver, BNWAS, ECDIS, MF/HF Radio, MF/HF Watch receiver, 3 fixed VHF, 4 portable VHF, Navtex receiver, Inmarsat C-SES satellite system, SSAS, LRIT, Inmarsat system, EPIRB, GMDSS, SART, Marine TV System, Integrated telephone/PA system

**Discharging Rates**

Fresh Water	2 x 150 m3/hr @ 9 bar
Fuel Oil Cargo	2 x 150 m3/hr @ 9 bar
F.O Transfer	2 x 20 m3/hr @ 3 bar
Ballast/DW	2 x 150 m3/hr @ 9 bar
Mud	2 x 75 m3/hr @ 9 bar
Base Oil	1 x 150 m3/hr @ 9 bar
Brine	2 x 75 m3/hr @ 22.5 bar
ORO	6 x 250 m3/hr @ 3 bar
Dry Bulk	2 x 29.5 m3/min @ 6 bar
Flow Meter	Provided for all cargo

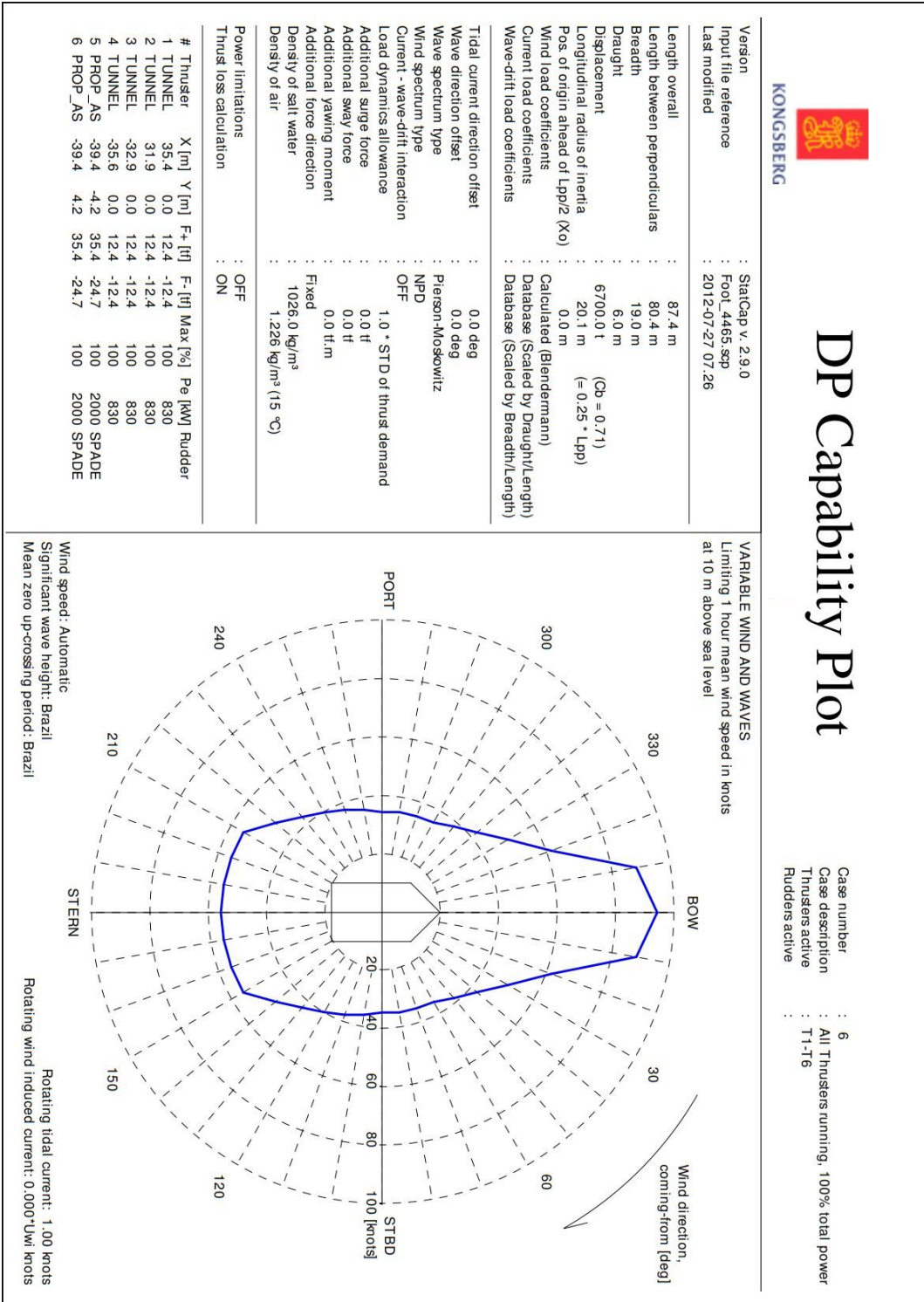
**Life Saving / Rescue Equipment / Pollution Control**

MOB Boat	1 x 6 person with davit (SOLAS)
Oil Recovery	1,106 m3
Slop Tanks	92 m3
Oil Recovery	Oil-Rec Notation. Recovery and dispersant booms, skimmers and
Foam fire-fighting system for helideck, sprinkler system, fixed CO2 system	

**Accommodation**

1-Berth Cabins	12
2-Berth Cabins	24
Berths - Total	60
Hospital	1
Recreation/Movie Room	3
Office	4
Conference Room	1
Recreation Room	2
Gym	1
Chiller/Freezer	27.4m3 / 27.6m3
Provisions	37m3
Water Maker	2 x 15 MT/day R.O. type

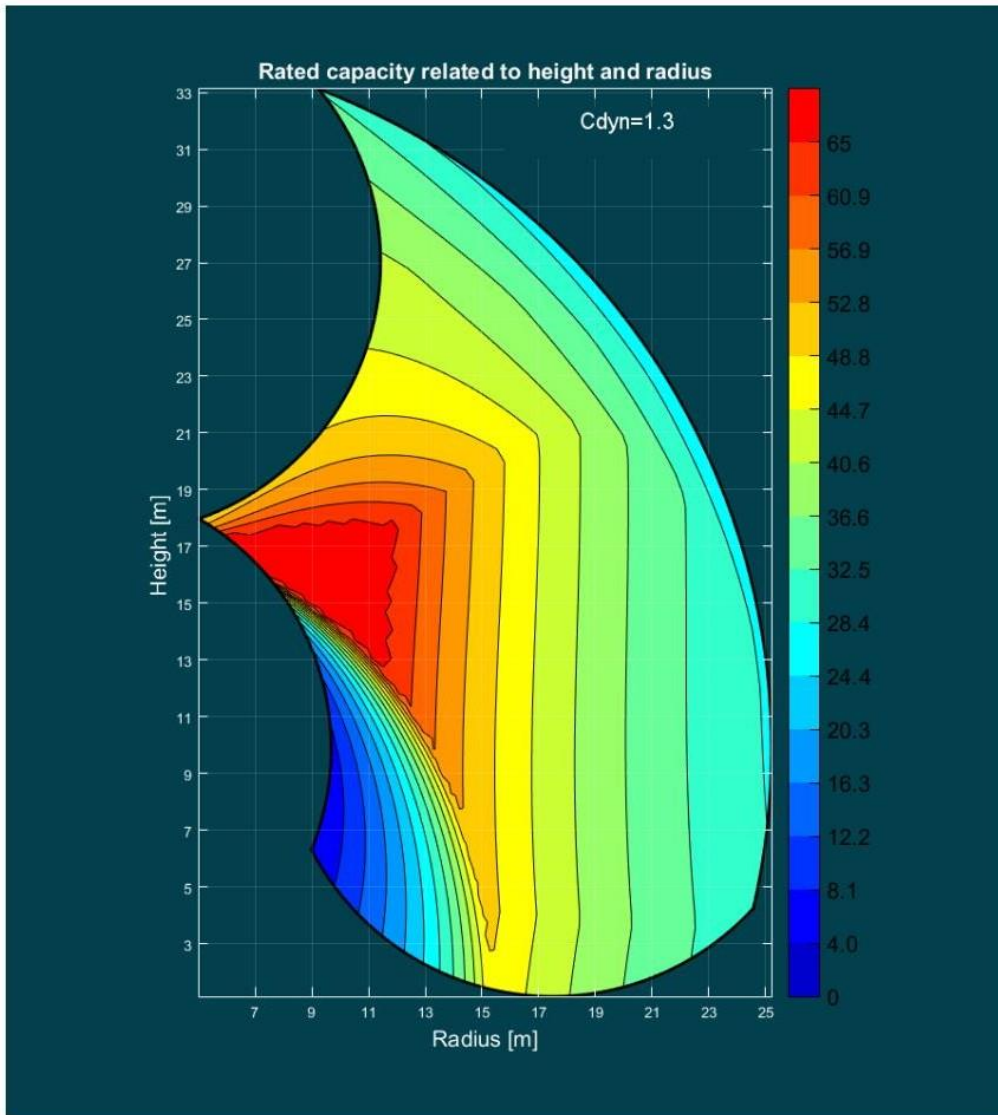
### DP Plot (All Thrusters)





### Crane Capability Chart

2.3 Cdyn = 1.30 – Deck and Harbour lift



**Operational limits:**

<b>Dynamic factor:</b>	<b>1.30</b>	
<b>Maximum rated load:</b>	<b>65.0</b>	<b>[t]</b>
<b>Load on maximum outreach</b>	<b>28.2</b>	<b>[t]</b>
<b>Maximum wind velocity:</b>	<b>25</b>	<b>[m/s]</b>
<b>Maximum trim:</b>	<b>2</b>	<b>[deg]</b>
<b>Maximum heel:</b>	<b>5</b>	<b>[deg]</b>
<b>Ice and snow:</b>	<b>No ice and snow</b>	

### Tank Capacity Plan

Tank Name	Fuel (MGO) m³ - 0.85 t/m³	Lub. Oil m³ - 0.90 t/m³	DW/BW m³ - 1.025 t/m³	Mud m³ - 2.80 t/m³	Bulk m³ - 2.32 t/m³	Brine m³ - 2.80 t/m³	Base Oil m³ - 0.80 t/m³	ORO m³ - 1.025 t/m³	Fresh Water m³ - 1.00 t/m³	Misc. m³
201P Double Bottom PS	59.1									
201S Double Bottom SB	59.1									
223P FO Settling PS	24.3									
226S FO Settling SB	24.3									
230P FO Service PS	18.6									
233S FO Service SB	18.6									
237P Emeg. Gen. FO	5.9									
301C Overflow DB	89.2									
401C Double Bottom	89.2									
301P Wing-DB	153.9									
301S Wing-DB	153.9									
401P Wing-DB	106.5									
401S Wing-DB	106.5									
501C Double Bottom	89.6									
501P Wing-DB	151.5									
501S Wing-DB	151.5									
601C Double Bottom	68.3									
11P FW Service Wing PS									121.7	
11S FW Service Wing SB									121.7	
111P Potable Water									98.6	
111S Potable Water									98.6	
701P Wing									225.7	
701S Wing									201.7	
711P Wing PS									250.0	
711S Wing SB									250.0	
01C Forepeak C			128.5							
101P Double Bottom PS			58.4							
101S Double Bottom SB			57.8							
601 P Wing			82.6							
601 S Wing			82.6							
701 C Skeg			20.8							
801 P Stern			105.0							
801 S Stern			105.0							
801 C Roll Reduction			221.2							
321 P Brine						224.8				
321 S Brine						224.8				
431 P Baseoil/ORO							79.6	79.6		
431 S Baseoil/ORO							79.6	79.6		
421 P Multipurpose				224.9						
421 S Multipurpose				224.9						
521 P Multipurpose				224.9						
521 S Multipurpose				224.9				224.9		
621 P Multipurpose				248.5						
621 S Multipurpose				248.5				248.5		
323 C Dry Bulk					54.3					
423 C Dry Bulk					54.3					
523 C Dry Bulk					54.3					
623 C Dry Bulk					54.3					
723 C Dry Bulk					54.3					
823 C Dry Bulk					54.3					
923 C Dry Bulk					54.3					
228 S LO		22.2								
231 P Aux Engine LO		9.7								
232 S LO Renov.		6.1								
643 P LO		6.5								
643 S LO		6.5								
229 P Hydraulic Oil										6.2
203 P Clean Fuel PS										13.1
204 S Dirty Fuel SB										13.1
205 P Sludge										10.9
206 S Oily Water										10.9
224 P Sewage Holding										13.5
225 P Grey Water										22.3
227 S Bilge Water Settling										13.5
234 S Dispersant										9.7
611 P Slop										46.1
611 S Slop										46.1
<b>Total (m³)</b>	<b>1370.0</b>	<b>51.0</b>	<b>862.0</b>	<b>1396.4</b>	<b>379.8</b>	<b>449.7</b>	<b>159.2</b>	<b>1106.0</b>	<b>1368.0</b>	
<b>Total (bb)</b>										

