

## **EAGLE BARENTS: DP2** shuttle tanker

Samsung Heavy Industries Co., Ltd
Eagle Barents
SN2065
AET Sea Shuttle
Singapore
Samsung Heavy
Industries Co., LtdRepublic of Korea
g Ship Model Basin
Bahamas
9676125
s already completed ed): <b>1</b>
s still on order: <b>NIL</b>

This vessel is to operate on a long-term contract with energy company Statoil, in the harsh conditions of Barents and North Sea oil fields, including the Goliat field 85km (53 miles) off the coast of Finnmark. This is the first oilfield to be developed off northern Norway and that meant the vessel has particular design and operational requirements that include NORSOK requirements for outside work environments, a weathertight bow loading area, and trunk access to a free-fall lifeboat.

The EAGLE BARENTS is twin skeg, twin engine, fitted with a new generation bow-loading system for cold climate operations, and fully winterised in accordance with DNV's winterisation cold notation. In addition, it is fitted with a range of eco-innovations, including a fully fitted ballast water treatment system, VOC emission reduction system, and a hybrid-type SOx scrubber that can operate in both open and closed loops.

The hull has a wave optimised bow and aerodynamic deckhouse design to enhance efficiency. Among the environmental features added to the main machinery to reduce emissions are the G-type electronically controlled engines with controllable pitch propeller, and variable frequency drive for all the Azimuth thrusters.

## TECHNICAL PARTICULARS

Length oa:	.Approx. 273m
Length bp:	259m
Breadth moulded:	46.0m
Depth moulded	
To main deck:	23.6m
To upper deck:	23.6m
Width of double skin	
Side:	3m
Bottom:	3m
Draught	
Scantling:	15.1m
Design:	15.1m
Gross:	
Deadweight	
Design:Appro Scantling:Appro Speed, service (90 %MCR outpu	ox. 120,000dwt

Cargo capacity (m³) Liquid volume:
Bunkers (m <sup>3</sup> )
Heavy oil: 2,700m
Diesel oil:
Tankers - percentage segregated
ballast:40%
Daily fuel consumption  Main engine only: 50.3tonnes/day
Classification society
and notations:Det Norske Veritas, ₹1A1
"Tanker for Oil ESP" E0, DYNPOS-AUTR, ESV-DP(HIL)
F-AMC, OPP-F, BOW LOADING
HELDK-SH, NAUT-AW, TMON
CLEAN DESIGN, RECYCLABLE
COMF-V(3)C(3), CSR, PLUS CSA-FLS2, COAT-PSPC(B), CCO
VCS-2, BWM-T, WINTÉRIZED
COLD(-15, -35

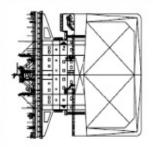
% high-tensile steel used in construction:
Design: 2 stroke, diesel engine Model: 6G50ME-B9.3 Manufacturer: MDT Licensee Number: 2 Type of fuel: HFO/MDO
Output of each engine:7,250kW
Propeller(s) x 2 Material: Ni-Al Bronze Designer/Manufacturer: Rolls-Royce Fixed/Controllable pitch: Controllable pitch Diameter: 6,900mm
Diesel-driven alternators x 5
Engine make/type: HHI / 8H32/40 x 2sets & 6H32/40 x 3sets Type of fuel: HFO/MDO
Output/speed of each set:4000kW,
3000kW / 720rpm
Alternator make/type: Hyundai/ HSJ7 809-10P & HSJ7 805-10P
Output/speed of each set:4,625 KVA (3,700 kW) / 720rpm x 2sets 3,500KVA (2,800kW) / 720rpm x 3sets
Exhaust-gas scrubbing equipment
Manufacturer:
to ME, AE and Boiler)
Boilers x 2 Type:
Make: Alfa Laval
Output, each boiler:25,000kg/h
Cargo cranes/cargo gear Number:Cargo Hose Handling Crane, 2
Make: TTS Marine Type: Electro-hydraulic cylinder luffing,

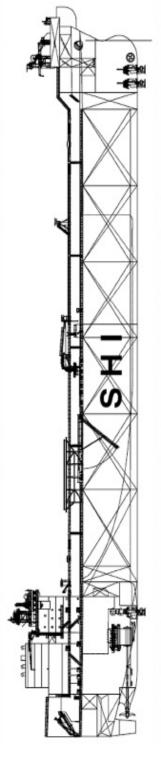
Number: Provision crane (2). BLS crane (1) Make: TTS Marine (for provision and BLS crane) Type: Electro-hydraulic cylinder luffing(for provision and BLS crane) Tasks: Provision crane - 5@15m, 7M/min, 5@13m, 7M/min, BLS Crane - 5@15m, 7M/min, 5@13m, 7M/min, 5@13m, 7M/min, 5@13m, 7M/min, 5@13m, 7M/min, 5@13m, 7M/min, BLS Crane - 5@10m 10M/min Mooring equipment Number: Hydraulic Deck Machinery, (6) drums(except combined windlasses) Make: PUSNES Type (electric/hydraulic/steam): Electric -driven type, 20 tonnes, 12M/min Special lifesaving equipment x 2 Make: PUSNES Type: Free-fall lifeboat, 1, 40, Included Heating device Cargo tanks x 12 + 2 slop tanks Product range: Crude oil Coated tanks – make and type of coating: Chugoku, Epoxy A/C Cargo pumps x 4 Type: Centrifugal, electric motor driven Make: Hyundai Stainless steel: Impeller shaft, etc. Capacity (each): 3,000m³/h x 135m Cargo control system Make: Kongsberg Type: K-CHIEF 600 Ballast control system Make: Kongsberg Type: K-CHIEF 600 Water ballast Treatment System Make: Samsung Capacity: 4,000m³/h Complement Officers: 19 Crew: 16 Suez/Repair Crew: 6 Single/double/other rooms: 31/4/1 Stern appendages/special rudders: Fish tail type rudder Bow thruster(s) Make: Kawasaki Heavy Industry Number: 2, FPP type Output (each): 2,500kW, Vertical retractable azimuth type Bridge control system Make: Kawasaki Heavy Industry Number: 2, FPP type Output (each): 2,200kW, Vertical retractable azimuth type Bridge control system Make: Rolls-Royce Is bridge fitted for one-man operation? Yes Fire detection system Make: Rolls-Royce Is bridge fitted for one-man operation? System Make: Make/Type: Sea water fire fighting system Public spaces: Make/Type: S	Performance:15 @ 18m, 10/12M/min Other cranes
Make:	Number: Provision crane (2),
luffing(for provision and BLS crane) Tasks:	Make:TTS Marine (for provision and BLS crane)
min, 5@13m, 7M/min, BLS Crane - 5@10m 10M/min Mooring equipment Number:	luffing(for provision and BLS crane) Tasks:Provision crane
Mooring equipment Number:	min, 5@13m, 7M/min,
Make:PUSNES Type (electric/hydraulic/steam):Electric	Mooring equipment Number:Hydraulic Deck Machinery, (6)
Special lifesaving equipment x 2 Make:	Make:PUSNES Type (electric/hydraulic/steam): Electric
Cargo tanks x 12 + 2 slop tanks Product range:	Special lifesaving equipment x 2  Make:Norsafe
type of coating:	Heating device Cargo tanks x 12 + 2 slop tanks
Cargo pumps x 4 Type:	Coated tanks – make and type of coating:Chugoku, Epoxy A/C
Make:	Cargo pumps x 4 Type:Vertical, Single stage,
Cargo control system Make: Kongsberg Type: K-CHIEF 600 Ballast control system Make: Kongsberg Type: K-CHIEF 600 Water ballast Treatment System Make: Samsung Capacity: 4,000m³/h Complement Officers: 19 Crew: 16 Suez/Repair Crew: 6 Single/double/other rooms: 31/4/1 Stern appendages/special rudders: Fish tail type rudder Bow thruster(s) Make: Kawasaki Heavy Industry Number: 2, FPP type Output (each): 2,500kW, Vertical retractable azimuth type Stern thruster(s) x 2 FPP Type Make: Kawasaki Heavy Industry Output (each): 2,500kW, Vertical retractable azimuth type Stern thruster(s) x 2 FPP Type Make: Rawasaki Heavy Industry Output (each): 2,200kW, Vertical retractable azimuth type Bridge control system Make: Rolls-Royce Is bridge fitted for one-man operation? Yes Fire detection system Make: Consilium Type: SALWICO Cargo Fire extinguishing systems Engine room: Make/Type: High pressure CO <sub>2</sub> system / NK, Water mist system / NK Cabins: Make/Type: Sea water fire fighting system Public spaces: Make/Type: Sea water fire fighting system Radars x 3 Make: Furuno Model(s): FCR-2839S & FCR-2829 Integrated bridge system: Yes (ECDIS/Conning Display /Route Planning) Make: Furuno Model: FMD-3300 and etc. Waste disposal plant Incinerator Make: Teamtec Model: GS500C Sewage plant Make: Ilseung Model: ISS-85N Contract date: 8 October 2012	Make:
Ballast control system Make: K-CHIEF 600 Water ballast Treatment System Make: Samsung Capacity: 4,000m³/h Complement Officers: 19 Crew: 16 Suez/Repair Crew: 6 Single/double/other rooms: 31/4/1 Stern appendages/special rudders: Fish tail type rudder Bow thruster(s) Make: Kawasaki Heavy Industry Number: 2, FPP type Output (each): 2,500kW, Vertical retractable azimuth type Stern thruster(s) x 2 FPP Type Make: Kawasaki Heavy Industry Output (each): 2,500kW, Vertical retractable azimuth type Stern thruster(s) x 2 FPP Type Make: Rawasaki Heavy Industry Output (each): 2,200kW, Vertical retractable azimuth type Bridge control system Make: Rolls-Royce Is bridge fitted for one-man operation? Yes Fire detection system Make: Consilium Type: SALWICO Cargo Fire extinguishing systems Engine room: Make/Type: High pressure CO <sub>2</sub> system / NK, Water mist system / NK, Water mist system / NK Cabins: Make/Type: Sea water fire fighting system Public spaces: Make/Type: Sea water fire fighting system Radars x 3 Make: Furuno Model(s): FCR-28398 & FCR-2829 Integrated bridge system: Yes (ECDIS/Conning Display /Route Planning) Make: Furuno Model: FMD-3300 and etc. Waste disposal plant Incinerator Make: Teamtec Model: GS500C Sewage plant Make: Ilseung Model: ISS-85N Contract date: 8 October 2012	Cargo control system  Make: Kongsberg
Water ballast Treatment System Make:	Ballast control system  Make: Kongsberg
Complement Officers:	Water ballast Treatment System  Make:Samsung
Crew:	Complement Officers:
type rudder  Bow thruster(s)  Make:	Crew:
Number: 2, FPP type Output (each):2,500kW, Vertical retractable azimuth type Stern thruster(s) x 2 FPP Type Make:	type rudder Bow thruster(s)
Stern thruster(s) x 2 FPP Type Make:	Number:2, FPP type Output (each):2,500kW, Vertical retractable
Vertical retractable azimuth type Bridge control system Make:	Stern thruster(s) x 2 FPP Type  Make:Kawasaki Heavy Industry  Output (each):2,200kW,
Is bridge fitted for one-man operation?Yes Fire detection system     Make:	Vertical retractable azimuth type Bridge control system
Type:	Is bridge fitted for one-man operation?Yes Fire detection system
pressure CO2 system / NK, Water mist system / NK Cabins:	Type:SALWICO Cargo Fire extinguishing systems
Cabins:Make/Type: Sea water fire fighting system Public spaces:Make/Type: Sea water fire fighting system Radars x 3 Make:	pressure CO <sub>2</sub> system / NK, Water mist system / NK
fighting system  Radars x 3  Make:	Cabins: Make/Type: Sea water fire fighting system
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Display /Route Planning) Make:	Make:Furuno Model(s):FCR-2839S & FCR-2829
Model: FMD-3300 and etc.  Waste disposal plant Incinerator Make: Teamtec Model: GS500C Sewage plant Make: Ilseung Model: ISS-85N Contract date: 8 October 2012	Display /Route Planning)
Make:         Teamtec           Model:         GS500C           Sewage plant         Ilseung           Make:         Ilseung           Model:         ISS-85N           Contract date:         8 October 2012	Model: FMD-3300 and etc.
Sewage plant  Make:	Make:Teamtec
Contract date: 8 October 2012	Sewage plant Make: Ilseung
Delivery date: 9 March 2015	Contract date:

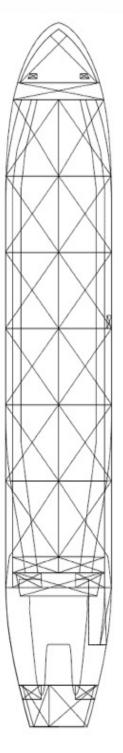
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