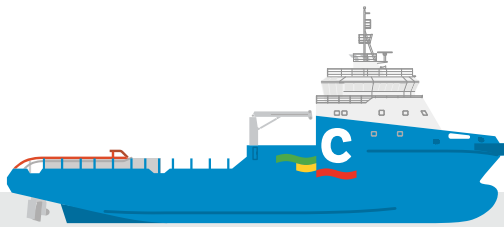




OYELI STAR

ANCHOR HANDLING TUG SUPPLY VESSEL

DP2 85 T BOLLARD PULL



CLASS

BV 1 HULL MACH, Unrestricted Navigation, Tug / Supply Vessel, LHNS, Oil Product, Fi-Fi 1, Water spraying, Special Service, AH, AUT-UMS, Dynapos-AM/AT R, Cleanship (1), Protected FO Tank, Oil recovery ship

MAIN PARTICULARS

Designer: Shanghai Design Associates
 Builder: Sinopacific

	(US)	(Metric)
Lenght overall (ft/m)	215.7	65.8
Breadth moulded (ft/m)	52.49	16
Depth (ft/m)	19.68	6
Design Draft (ft/m)	14.11	4.3
Max. Draft (ft/m)	16.63	5.1
➤ Deadweight (st/mt)	2,105	1,910
Gross tonnage (st/mt)	2,436	2,210
Bollard Pull (lt/mt)	83.66	85

MACHINERY / PERFORMANCE

PROPULSION – MACHINERY

Main diesel Generators engines	3 x 2,000 kW at 1,800 rpm 3Ph/480VAC/60 Hz
Propellers	2 x 1,685 kW L - drive FPP in nozzle, 360°azimuth
	1 x 1,685 kW L-drive FPP in nozzle, fixed thrusters
Bow thrusters	2 x 560 kW FPP thrusters
Emergency generator / dedicated harbor generator	1 x 276 kW

SPEED CONSUMPTION

Maximum speed - 13.4 knots	20.0 t/day
Service speed - 12 knots	14.7 t/day
Service speed - 10 knots	8.8 t/day
Eco speed - 8 knots	6.2 t/day
DP Station keeping	5.0 t/day
Standby at sea	2.5 t/day
Standby in port - Harbour generator	0.8 t/day

(Speed and consumption at 4.30 m design draft, clean hull, calm sea, no sea margin)

COMBINED CAPACITIES (100%)

	(US)	(Metric)
➤ Free cargo deck area (sq.ft/m2)	4,306	400
Deck load (st/mt)	1,102	1,000
Fuel Oil (USG/m ³)	198.657	752
Fresh water (USG/m ³)	117.028	443
Ballast/Drill water (USG/m ³)	288.211	1.091
➤ Liquid Products Tanks (USG/m ³)	182.807	69
Dry Bulk/ Cement (USG/m ³)w	43,815	193
Foam (USG/m ³)	2,905	11

DELIVERY RATES

Fuel oil	(US)	2 x 660 USG/min at 7 bars
	(Metric)	2 x 150 m ³ /h at 70 m
Fresh water	(US)	2 x 660 USG/min at 7 bars
	(Metric)	2 x 150 m ³ /h at 70 m
Drill water / Ballast	(US)	2 x 660 USG/min at 7 bars
	(Metric)	2 x 150 m ³ /h at 70 m
Dry bulk (compressor flow)	(US)	2 x 97 USG/min at 7 bars
	(Metric)	2 x 22 m ³ /min at 70 m
Liquid mud	(US)	2 x 330 USG/min at 18 bars
	(Metric)	2 x 75 m ³ /h at 180 m
Special Product	(US)	4 x 330 USG/min at 9 bars
	(Metric)	4 x 75 m ³ /min at 90 m

Liquid mud tanks fitted with hydraulic agitators and fixed hot water washing system

ACCOMMODATIONS

➤ Accommodations	24 pers
➤ Single cabins	4
➤ 2 x men cabins	10
➤ Mess room (1), Day rooms (2), Galley (1), Office (1),	
➤ Hospital/Sick Bay (1 Berth)	
➤ Fully air-conditioned	

EQUIPEMENT & ELECTRONICS

	(US)	(Metric)
Windlass (lt/mt)	1 x 10.5	1 x 10.7
Tugger winches (lt/mt)	1 x 9.8	1 x 10
Capstan (lt/mt)	2 x 4.9	2x5
Telescopic boom crane [lt/mt] x 1 at [ft/m]	3 52.5	3 16

AH/Towing Winch

Towing / Anchor-handling electro-hydraulic high pressure winch with 2 drums in waterfall arrangement each equipped with:

- Drum size: 900/2,250 mm dia. x 1,800 mm length
- Drum capacity: 1,500 m x 56 mm and 1,100 m x 64 mm steel wire.
- Rated pull each: 150 t on the 1st layer at 0 to 8.5 m /min
- Brake holding load, 250 t on 1 st layer
- Cable lifters: 1 x 2" 1/2 + 1 x 3" chains
- Stern roller (US) 4.9 ft dia. x 13.1 length (246 t 1 st SWL) (Metric) 1,500 mm dia. x 4,000 mm length (250 t SWL)

DYNAMIC POSITIONING SYSTEM

➤ DP Class 2

System consists of 2 DGPS, 1 Radascan

COMMUNICATION

1 radio system compliant with GMDSS A3 rules
Vsat, FBB500, Inmarsat C
Email/IP voice facilities

SAFETY EQUIPMENT

➤ Fire-fighting Class 1 (FIF1) with foam and waterspray protection

	(US)	(Metric)
Pumps [USG/min-m ³ /h] x 2	6,604 (each)	1,500 (each)
Monitors [USG/min-m ³ /h] x 2	5,283 (each)	1,200 (each)

LIFE SAVING ARRANGEMENT

Vessel fitted with safety equipment according to SOLAS Regulation

- 1 Fast Rescue Boat (for 10 persons) with davit
- 6 Life rafts (3 on each side), each life raft is able to accommodate 12 persons
- Life jackets, life buoys, immersion suits

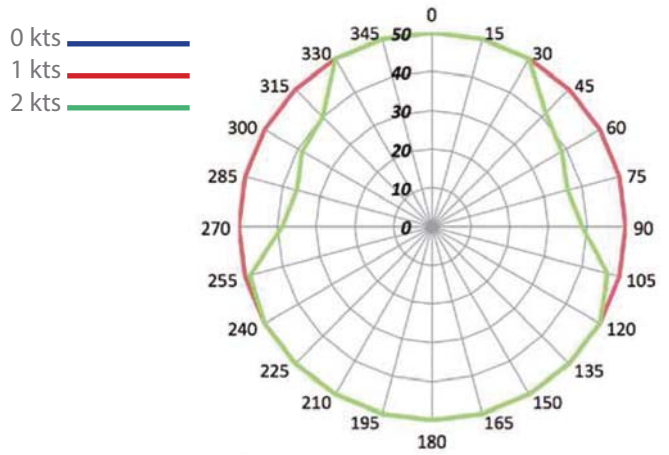
DP CAPABILITY PLOT

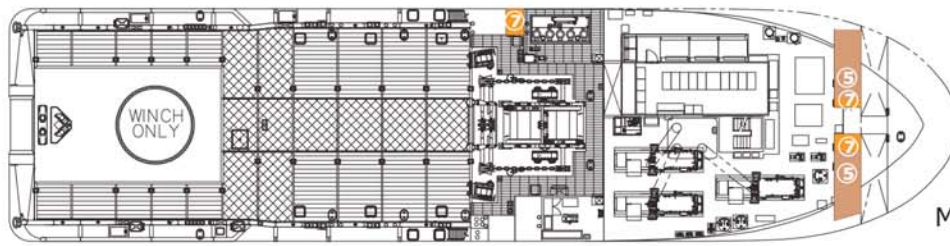
Tremendous station keeping capability
Safer operations
Increased operational time
Exceptional maneuverability in adverse weather conditions

All thrusters 100%

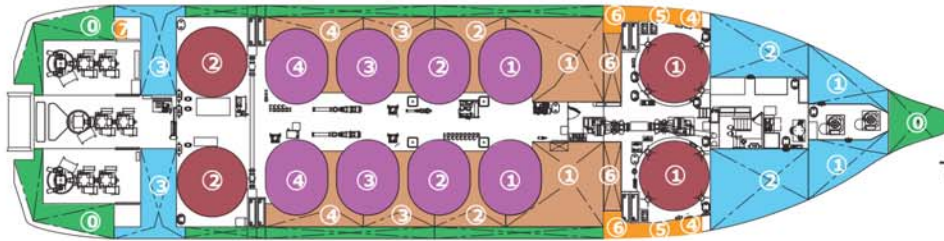
➤ Wind seep in knots

Water current in knots





MAIN DECK



TANK DECK



INNER BOTTOM

OUTSTANDING TANKS CAPACITIES

(C) center, (P) portside, (S) starboard

BALLAST WATER TANKS			FRESH WATER TANKS			LIQUID PRODUCT TANKS		
100% CAPACITIES			100% CAPACITIES			100% CAPACITIES		
0	Water Ballast Forepeak (C)	46.81 m ³	1	Fresh Water (P)	52.02 m ³	1	Liquid Product (P)	86.56 m ³
0	Water Ballast/Aft peak (P)	49.24 m ³	1	Fresh Water (S)	52.02 m ³	1	Liquid Product (S)	86.56 m ³
0	Water Ballast/Aft peak (S)	49.24 m ³	2	Fresh Water (P)	75.74 m ³	2	Liquid Product (P)	86.56 m ³
1	Water Ballast /Drill Water (C)	39.32 m ³	2	Fresh Water (S)	102.22 m ³	2	Liquid Product (S)	86.56 m ³
1	Water Ballast /Drill Water (P)	88.88 m ³	3	Fresh Water (P)	80.48 m ³	3	Liquid Product (P)	86.56 m ³
1	Water Ballast /Drill Water (S)	88.88 m ³	3	Fresh Water (S)	80.48 m ³	3	Liquid Product (S)	86.56 m ³
2	Water Ballast /Drill Water (P)	37.78 m ³				4	Liquid Product (P)	86.52 m ³
2	Water Ballast /Drill Water (S)	37.92 m ³				4	Liquid Product (S)	86.52 m ³
3	Water Ballast /Drill Water (P)	134.86 m ³				8 Liquid Product Tanks (mud, brine, base oil, oil recovery)		
3	Water Ballast /Drill Water (S)	134.86 m ³						
4	Water Ballast /Drill Water(P)	137.44 m ³						
4	Water Ballast /Drill Water(S)	137.44 m ³						
5	Water Ballast /Drill Water (P)	54.12 m ³						
5	Water Ballast /Drill Water (S)	54.12 m ³						
TOTAL = 1090.91m³			TOTAL = 442.92 m³			TOTAL = 692.40 m³		

FUEL OIL TANKS			DRY BULK TANKS			MISCELLANEOUS TANKS		
100 % CAPACITIES			100 % CAPACITIES			100 % CAPACITIES		
1	Fuel Oil (P)	150.06 m ³	1	Dry Bulk (S)	55.70 m ³	1	Oily water	20.79 m ³
1	Fuel Oil (S)	146.02 m ³	1	Dry Bulk (P)	55.70 m ³	2	Dirty oil	3.25 m ³
2	Fuel Oil (P)	54.01 m ³	2	Dry Bulk (S)	40.90 m ³	3	Sludge	5.74 m ³
2	Fuel Oil (S)	54.01 m ³	2	Dry Bulk (P)	40.90 m ³	4	Foam (P)	5.71 m ³
3	Fuel Oil (P)	54.01 m ³				4	Foam (S)	5.71 m ³
3	Fuel Oil (S)	54.01 m ³				5	Sewage (P)	14.66 m ³
4	Fuel Oil (P)	66.30 m ³				5	Sewage (S)	14.66 m ³
4	Fuel Oil (S)	68.73 m ³				6	Fuel Oil Over flow (P)	12.47 m ³
5	Fuel Oil Day (P)	24.02 m ³				6	Fuel Oil Over flow (S)	12.47 m ³
5	Fuel Oil Day (S)	24.02 m ³				7	Lub Oil me	7.88 m ³
6	Fuel Oil Settling (P)	26.81 m ³				7	Lub Oil bt	3.94 m ³
6	Fuel Oil Settling (S)	26.81 m ³				7	Lub Oil deck mach	4.66 m ³
7	Fuel Oil Emergency Generator	3.36 m ³				7	Lub Oil z-drive	1.28 m ³
TOTAL = 752.17 m³			TOTAL = 193.20 m³			TOTAL = 113.22 m³		

Total amount of cargo vessel is able to carry is equivalent to the deadweight of vessel