

65M ANCHOR HANDLING / OFFSHORE SUPPORT VESSEL



GENERAL SPECIFICATION

Port of Registry	: SHANG HAI	ACCOMMODATION	PROPULSION SYSTEM
Flag	: CHINA	2 x 1 Man Cabin	Main Engine (Bergen)
Year Delivered	: 2009-2010	4 x 2 Men Cabin	: 2 x 3000KW, Diesel engine @ 750 RPM c/w reduction gearbox
Builder	: Keppel Singmarine	7 x 4 Men Cabin	Propeller
		Total Persons On Board	: 2 x CPP, 3.5 m Dia. @ 4-bladed
			Bow Thruster
			: 1 x 10 Tons CPP, 440V/3Ph/60Hz
			Stern Thruster
			: 1 x 10 Tons CPP, 440V/3Ph/60Hz
			Retractable Thruster
			: 1 x 1.6 m Dia. FPP (1000 BHP Diesel Engine @ 1800 RPM)
			Steering Gear
			: 2 x Independent Electro Hyd. System
Designer	: Wartsila Ship Design Pte. Ltd. (formerly CWA)	Hospital Room	
Classification	: CCS	: 1 x 1-Man Bunk	
Notation	: CCS+★CSA Tug/Offshore Supply Ship/Fire Fighting Ship 1; Anchor Handling	1 x Treatment Table	
	★CSM DP-1	[FULLY AIR-CONDITIONED]	

PRINCIPAL PARTICULARS	DECK EQUIPMENT	PROPULSION PERFORMANCE
Length Overall	Anchor Windlass and Mooring	Maximum Speed
: 65.50 m	: Electro Hydraulic System, Windlass with	: 14.6 knots (approx.) @ 100% MCR
Breadth Moulded	Winch	Bollard Pull
: 16.00 m	: 10 Tons Duty Pull @ 13 m/min, Mooring drum with 11 Tons pull @ 11.5 m/min	: 115Tons (approx.) @ 100% MCR
Depth Moulded	Anchor Handling and Towing	
: 6.50 m	Winch	
Summer Draft	: Double drum, Waterfall type @ electro hydraulic system, Drum capacity of	
: 5.50 m	2 x 1500 m x 64 mm Dia Wire,	
Gross Tonnage	300 Tons brake holding and 250 Tons pull force @ 8.5 m/min	
: 2183		
Net Tonnage		
: 655		
Deadweight (Summer Draft)		
: 2047.94 Tons (approx.)		
Free Deck Space		
: 415 m ² (approx.)		
Deck Strength		
: 5.5 Tons/m ²		

SAFETY EQUIPMENT
Liferafts
: 6 x 20 men
Rescue Boat
: 1 x 6 men semi rigid type c/w pivoting davit
Remarks: Vessel's Life Saving Equipment are in accordance with SOLAS/LSA Code & Flag State requirements.

FIRE FIGHTING & ANTI POLLUTION EQUIPMENT
Fifi Classification
: FFV 1
Fire Pumps Capacity
: 2 x 1600 m ³ /hr
Fire Monitor Capacity
: 1 x 1200 m ³ /hr water c/w 300 m ³ /hr foam; 1 x 1200m ³ /hr water
Oil Dispersant System
: 2 x 6 m Dispersant Boom
Remarks: 1 x Fixed Fire-extinguishing System (CO2) to Machinery Space Cat. A, 1 x Fixed Local Application System (Water Mist) to Machinery Space Cat.A, 1 x Fire Detection & Alarm System, and 1 x Deck Foam in accordance with IMO SOLAS/ FFS Code & Flag State requirements.

DISCHARGE PUMPS CAPACITIES
Fuel Oil (Cargo)
: 1 x 150 m ³ / hr @ 90 m head
Fresh Water (Cargo)
: 1 x 150 m ³ / hr @ 90 m head
Drill Water (Cargo)
: 1 x 150 m ³ / hr @ 90 m head
Liquid Mud (Cargo)
: 2 x 100 m ³ / hr @ 90 m head
Brine (Cargo)
: 1 x 100 m ³ / hr @ 90 m head

Storage Reel Winch
: 1 x 1800 m x 64 mm Dia. Wire
Shark Jaw
: 1 set x 300 Tons @ Electro Hyd. System
Towing Pins
: 1 set x 160 Tons @ Electro Hyd. System
Stern Roller
: 4.80 m(L) x 2.00 m Dia.
Tugger Winch
: 2 x 10 Tons @ Electro Hyd. System
Capstan
: 2 x 9 Tons @ Electro Hyd. System
Provision Crane
: 1 x 5 Tons (SWL) @ 15 m outreach (telescopic crane)
Reefer Point
: 4 x 16 A, 415V/3Ph/50Hz;
4 x 32 A, 230V/1Ph/50Hz

ANCHOR MOORING SYSTEM
Anchor Type
: Stockless Bower Anchors
Anchor Capacity
: 2 x 2280 kg
Anchor Chains
: 825 m (TOTAL)

OTHER EQUIPMENT CAPACITIES
Bulk Tank Compressor
: 2 x 1368 m ³ / hr @ 5.6bar
Bulk Tank Dryer
: 1 x 1800 m ³ / hr @ 5.6bar
Oily Water Separator
: 1 x 1 m ³ / hr
Sewage Treatment Plant
: 1 x 4.66 m ³ / day (38 men)
Liquid Mud Agitator
: 2 x 2.5 m Dia. impeller;16.5 kW/35RPM EACH
Hydraulic Power-Pack
: 1 x 100l / min c/w 55.0 kW Motor, 440V/ 3Ph/60Hz @1770 RPM
1 x 300l (Reservoir Tank)

ELECTRIC POWER GENERATION
Main Generators
: 2 x 450 kW @ 440V/3Ph/60Hz
Emergency/ Harbor Generators
: 1 x 140 kW @ 440V/3Ph/60Hz
Shaft Alternators
: 2 x 1450 kW @ 440V/3Ph/60Hz

DYNAMIC POSITIONING SYSTEM
DP-1 System
: 1 set
Maker
: GE Power Conversion

NAVIGATION & COMMUNICATION EQUIPMENT
GMDSS Radio A3)
: 1 complete set
GPS Navigator
: 1 unit
DGPS
: 2 units
Gyro Compass c/w Autopilot
: 2 units Gyro Compass; 1 unit Autopilot
Magnetic Compass
: 1 set
Radar (ARPA)
: 2 units
Echo Sounder
: 1 unit
Speed Log
: 1 unit
Anemometer
: 2 units
Navtex Receiver
: 1 unit
AIS
: 1 unit
SART
: 1 set
EPIRB
: 1 unit (406MHz)
SSAS
: 1 set
Satellite Communication
: 1 set
Satellite Data Transmission
: 1 set x Inmarsat System
Interior Communication System
: 1 set
PA System
: 1 set
Sound Reception System
: 1 set
Search Light
: 2 units
Fleet Broadband
: 1 set
VSAT
: 1 set

Drill Water Tanks (m³)
1 No.1 FW & DW & WB (C)
102.50
2 No.1 FW & DW & WB (C)
82.80
3 No.3 FW & DW & WB (P)
33.30
4 No.3 FW & DW & WB (S)
33.30
5 No.3 FW & DW & WB (C)
21.70
6 FW & DW TK (P)
66.40
7 FW & DW TK (S)
66.40
TOTAL:
406.40
Fresh Water (m³)
1 No.1 FW TK (P)
95.60
2 No.1 FW TK (S)
95.60
3 No.2 FW TK (P)
112.80
4 No.2 FW TK (S)
112.80
TOTAL:
416.80

Fuel Oil Tanks (m³)
1 No.1 FO TK (P)
103.40
2 No.1 FO TK (S)
103.40
3 No.1 FO TK (C)
109.80
4 No.2 FO TK (P)
123.00
5 No.2 FO TK (S)
131.00
6 No.2 FO TK (C)
70.50
7 FO Day TK (P)
16.60
8 FO Day TK (S)
16.60
TOTAL:
674.30
Dry Bulk Tanks (m³)
1 No.1 Cement TK (P)
58.30
2 No.2 Cement TK (S)
58.30
3 No.1 Cement TK(P)
58.30
4 No.2 Cement TK (S)
58.30
TOTAL:
233.20

Misc Tanks (m³)
1 Hyd. Oil (P)
3.70
2 Hyd. Oil (S)
3.70
3 Lube Oil (P)
2.70
4 Lube Oil (S)
2.70
5 Lube Oil Storage TK
7.40
6 Bilge TK (S)
7.40
7 Dirty Oil TK (C)
7.80
8 Sewage Holding TK (C)
12.70
9 Foam TK (P)
14.70
10 Dispersant TK (S)
14.70
11 No.1 BR & Slop & RIG CL (P)
71.80
12 No.1 BR & RIG CL (S)
77.60
13 No.2 DW & WB (P)
98.90
14 No.2 DW & WB (S)
98.90
15 No.1 Mud & BR TK
181.90
16 No.2 Mud & BR TK
140.60
TOTAL:
747.20

[ALL INFORMATION ARE BELIEVED TO BE ACCURATE AT THE TIME OF PRINTING]

THIS TECHNICAL BRIEF SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE

