

AOS HANDLER

Anchor Handling Tug Supply Vessel – DP1



PRINCIPAL PARTICULARS

Length Overall:	58.70 m
Length Waterline:	56.37 m
Breadth Moulded:	14.60 m
Depth Moulded:	5.50 m
Draft (designed):	4.50 m
Year Built:	2010
GRT/NRT:	1537 / 461
Class:	Bureau Veritas
Flag:	Panama
Call Sign:	HO5899

CARGO CAPACITIES

Deadweight:	1350 T
Deck Cargo:	500 T
Deck Strength:	7 T/m ²
Clear Deck Area:	350 m ²
Fuel Oil:	475 m ³
Fresh Water:	234.21 m ³
Drill Water / SWB:	465.06 m ³
Liquid Mud:	259.24 m ³
Bulk Mud:	186.88 m ³
Freezer:	9 m ³
Cooler:	6 m ³
Foam:	13 m ³
Dispersant:	13 m ³
Lube Oil:	8.11 m ³

PROPULSION SYSTEM

Main Engines:	2 x Caterpillar 3516B 1920 kW @ 1600 rpm
Reduction Gears:	2 x Reintjes LAF 873 ratio 7:455:1
Main Generator:	3 x 450 kW diesel driven
Emergency Generator:	1 x 65 kW
Bow Thruster:	1 x 8.0T electric driven
Propellers:	2 x controllable pitch propeller
Rudders:	2 x double plate flat type
Steering Gear:	2 x independent electro-hydraulic

PERFORMANCE

Maximum Speed:	14 knots
Economical Speed:	12 knots

DECK EQUIPMENT

Windlass:	9T @ 12m/min for 40 mm dia.
Anchors:	2 x 1305 kg
Chains:	2 x 400 m x 40 mm dia.
Capstan:	2 x 5T @ 15 m/min
Tugger Winch:	2 x 10T @ 15 m/min
Rope Reel:	1 x 5T @ 15 m/min
	Cap: 1000 m (L) x 56 mm dia.

TOWING/ANCHOR HANDLING

Bollard Pull:	69.40T (approx)
Winch:	1 x 150 T Line Pull
Stern Roller:	200T; 5.0 m x 1.6 m dia
Shark Jaw &	2 x 5T @ 15 m/min
Towing Pins:	hydraulic operated type; SWL: 200T

RADIO AND NAVIGATION

GMDSS:	Area A1+A2+A3
SSB	1 x Furuno FAX-250
VHF:	2 x Furuno FM8800D / 8800D
MF/HF DSC:	1 x Furuno FS-1570
Inmarsat C:	2 x Furuno Felcom-15
Marine Radar:	1 x Furuno FAR28X7 / FAR21XT
AIS:	1 X Furuno FA 150
Echo Sounder:	1 x Furuno FE-700
Gyro Compass:	1 x Simrad AR-78
SART:	2 x Mc Murdo KLS S4-1/S4
VHF radios:	3 x Mc Murdo R2 (portable)
Anemometer:	1 x Kongsberg OMC 139
EPIRB:	1 x Mc Murdo E5
Magnetic Compass:	1 x Saura Keiki MR-150
Speed Log:	1 x Furuno DS-80
Navtex Receiver:	1 x Furuno NX-700A/B
GPS Navigator:	1 x Furuno GP-150
Weather Fax:	1 x Furuno FAX-408
Satellite Telephone:	Thrane & Thrane – TT 3672A

LIFE SAVING & HSE

Search Lights:	3 x 2000 W
Floodlights:	7 x 1000 W
Liferafts:	4x 20 men & 2 x 25 men
Lifejackets:	53 sets
Lifebuoys:	8 sets
Rescue Boats:	1 x 6 men Hyd Davit
Scrambling Nets:	1 x 4.6 m x 1.1 m

DISCHARGE RATES

Fuel Oil:	150 m3/hr @ 75 m head
Portable Water:	100 m3/hr @ 75 m head
Drill Water:	100 m3/hr @ 75 m head
Liquid Mud:	2 x 70 m3/hr @ 75 m head
Bulk Mud/Cement:	2 x 13.0 m3/min

DYNAMIC POSITIONING

DP System: Kongsberg Dynamic Positioning 1

- 1 x DGPS
- 2 x wind sensors
- 2 x MRS
- 2 x gyro compasses
- 1 x control station
- 2 x joysticks
- 1x UPS

ACCOMMODATION

Configuration:	2 x 1 man cabins 4 x 2 men cabins <u>8 x 4 men cabins</u>
Total:	42 men
Hospital:	1 x 1 men
Accommodation is fully air conditioned.	

GALLEY

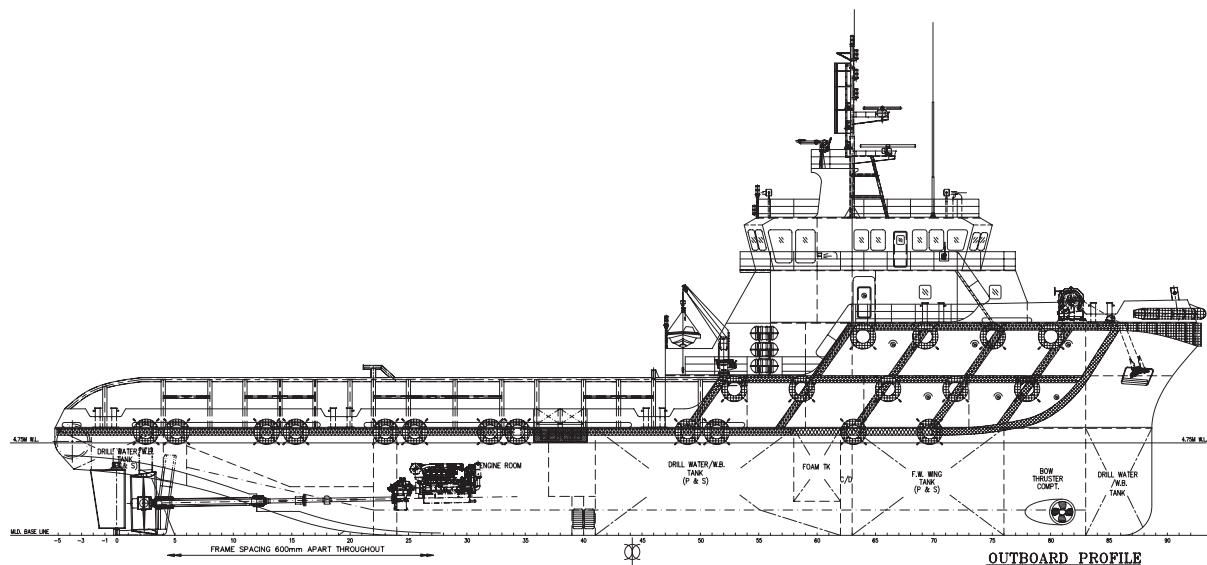
Refrigerator Capacity:	290 liters
Freezer Capacity:	250 liters

FIRE-FIGHTING

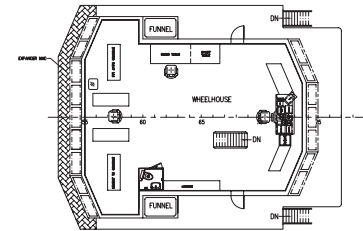
EXTERNAL:	FIFI Class 1 c/w Water Spray
Fire Pump:	2 x 1500 m3/hr @ 130 MLC
Water/Foam:	2 x 1200 m3/hr @ 12 bar
Search Lights:	3 x 2000W
Dispersant S/B:	13 m3
INTERNAL:	
Emer Fire Pump:	55 m3/hr @ 4.5 bar
1 x CO2 System:	in Main Engine Room

MISCELLANEOUS

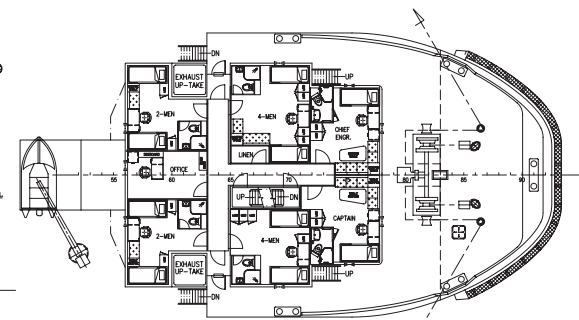
Sewage Treatment:	one set
Oily Water Separator:	one set
Freshwater Maker:	1 x reverse osmosis type; 5T/day



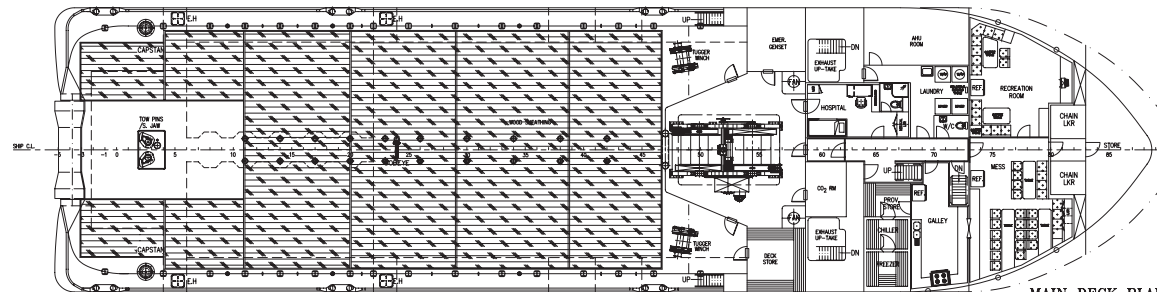
OUTBOARD PROFILE



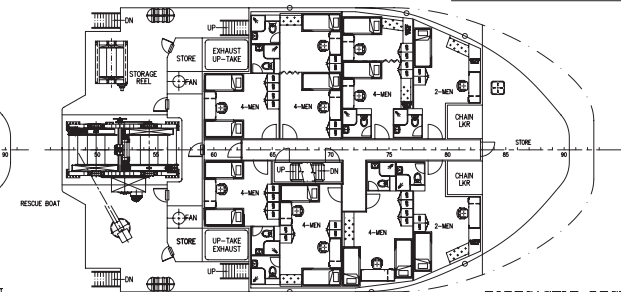
NAV. BRIDGE DECK



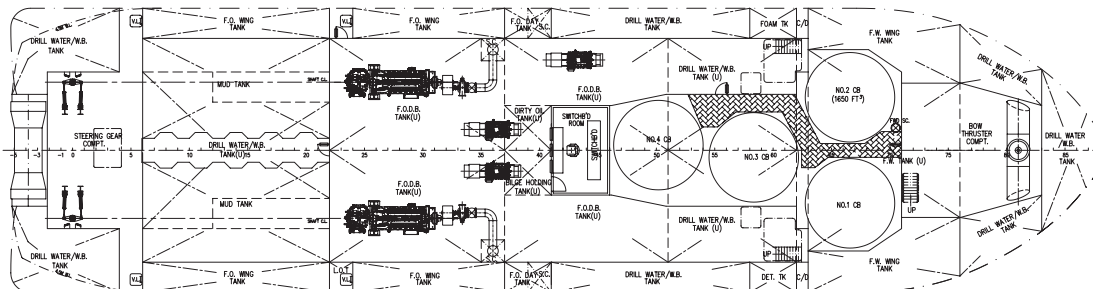
UPPER FORECASTLE DECK



MAIN DECK PLAN



FORECASTLE DECK



BELOW MAIN DECK PLAN

PRINCIPAL DIMENSIONS

LENGTH OVERALL	58.70 M
LENGTH WATERLINE	56.37 M
LENGTH BETWEEN PERPENDICULARS	53.20 M
BREADTH MOULDED	14.60 M
DEPTH MOULDED	5.50 M
MAX. DRAFT MOULDED	4.75 M
ACCOMMODATION	42 MEN
FUEL OIL	476 M ³
FRESH WATER	264 M ³
DRILL WATER	462 M ³
MUD (S.G. - 2.5)	255 M ³
DRY BULK TANKS(4 x 1650 FT ³ = 6600 FT ³)	187 M ³
CLEAR DECK AREA (DECK LOADING = 7 T/M ²)	375 M ²
TOTAL POWER	2 x 2575 BHP
BOLLARD PULL	60 TONNS
SPEED	13.5 KNOTS

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PROJECT	58.7m ANCHOR HANDLING SUPPLY VESSEL		
TITLE	GENERAL ARRANGEMENT		
CLASSIFICATION	BV	HULL NO.	HT072017
DRAWN	CHECKED	SCALE	DRAWING NUMBER
FEIJIANG		1:125	KCM/Q383-G1
18-07-08			REV.