

AOS TRIUMPH

Anchor Handling Tug Supply Vessel – DP 1



PRINCIPAL PARTICULARS

Length Overall:	58.70 m
Length Waterline:	56.31 m
Breadth Moulded:	14.60 m
Depth Moulded:	5.50 m
Draft (designed):	4.75 m
Year Built:	2014
GRT/NRT:	1561 / 468
Class:	Bureau Veritas
Flag:	Panama
Call Sign:	HP4826

CARGO CAPACITIES

Deadweight:	@ S.L.L. 1271.367
Deck Cargo:	500 T
Deck Strength:	7 T/m ²
Clear Deck Area:	350 m ²
Fuel Oil:	468.5 m ³
Fresh Water:	212.2 m ³
Drill Water / SWB:	417.2 m ³
Mud Tank:	259.2 m ³
Cement Tanks:	4 x 46.72 m ³
Freezer:	9 m ³
Cooler:	6 m ³
Foam:	13.5 m ³
Dispersant:	13 m ³
Lube Oil:	6 m ³

PROPULSION SYSTEM

Main Engines:	2 x Caterpillar 35i6C - HD 1920 kW @ 1600 rpm
Reduction Gears:	2 x Reintjes LAF 873 ratio 7:455:1
Shaft Generator:	2 x 1192 PTO driven 415 V/ 3 ph/ 50Hz/ 1000kW
Main Generator:	2 x Catterpillar C18 350 kW diesel driven
Bow Thruster:	2 x Kawasaki 8T CPP Type
Propellers:	2 x controllable pitch propeller
Rudders:	2 x double plate flat type
Steering Gear:	2 x independent electro-hydraulic

PERFORMANCE

Maximum Speed:	13.5 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.
Deck Crane:	1 x Pedestal Mounted SWL: 3T @ 2.5m-9m

TOWING/ANCHOR HANDLING

Bollard Pull:	66.2 T (approx)
Winch:	1 x 150 T Line Pull
Stern Roller:	200 T; 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 FS-1570
VHF:	2 x Furuno FM8800S
MF/HF DSC:	1 x Furuno FS-1570
Inmarsat C:	1 x Furuno Felcom-18
Radar:	2 x Furuno FR-2115
AIS:	1 x Furuno FA-150
Echo Sounder:	1 x Furuno FE-700
Auto Pilot:	1 x Simrad AP70
Gyro Compass:	2 x Simrad GC80
SART:	2 x Mc Murdo S4
VHF radios:	3 x Mc Murdo R2 (portable)
EPIRB:	1 x Mc Murdo E5
Magnetic Compass:	1 x Saura MR-150
Speed Log:	1 x Furuno DS-80
Navtex Receiver:	1 x Furuno NX-700A/B
GPS Navigator:	1 x Furuno GP-50
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:	4 x 20 men & 2 x 25 men
Lifejackets:	53 sets
Lifebuoys:	8 sets
Scrambling Nets:	1 x 4.6 m x 1.1 m
Rescue Boats:	1 x 6 men

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

- 2 x PRS
- 2 x Wind Sensor
- 1 x Vertical Ref Systems
- 2 x Gyro Compass
- 1 x UPS
- 1 Control Station

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



PRINCIPAL DIMENSIONS

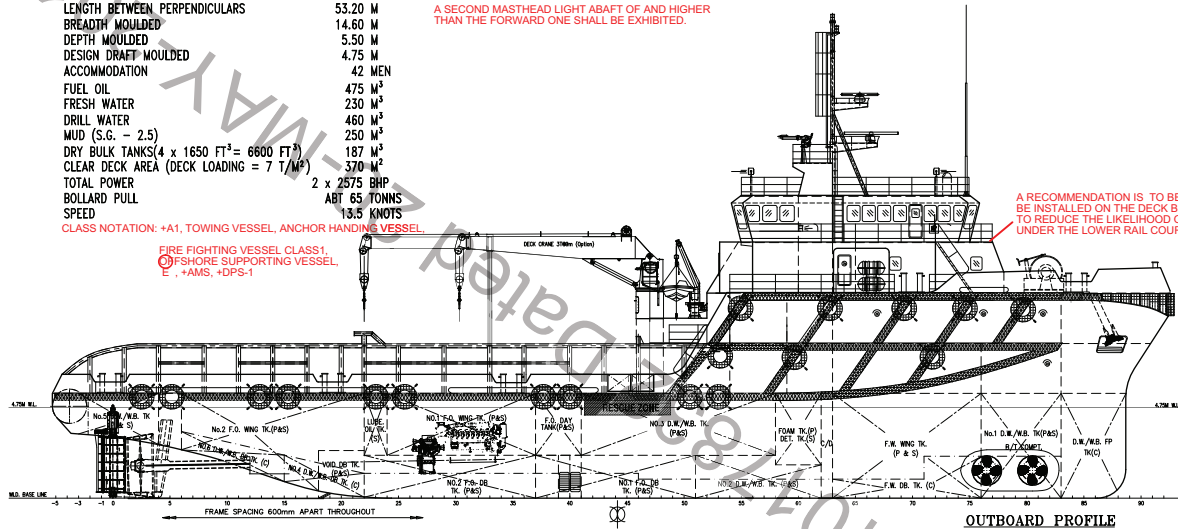
LENGTH OVERALL	58.70 M
LENGTH WATERLINE	56.31 M
LENGTH BETWEEN PERPENDICULARS	53.20 M
BREADTH MOULDED	14.60 M
DEPTH MOULDED	5.50 M
DESIGN DRAFT MOULDED	4.75 M
ACCOMMODATION	42 MEN
FUEL OIL	475 M ³
FRESH WATER	230 M ³
DRILL WATER	460 M ³
MUD (S.G. - 2.5)	250 M ³
DRY BULK TANKS(4 x 1650 FT ³ = 6600 FT ³)	187 M ³
CLEAR DECK AREA (DECK LOADING = 7 T/MP)	370 M ²
TOTAL POWER	2 x 2575 BHP
BOLLARD PULL	ABT 65 TONNS
SPEED	13.5 KNOTS

CLASS NOTATION: +A1, TOWING VESSEL, ANCHOR HANDLING VESSEL,

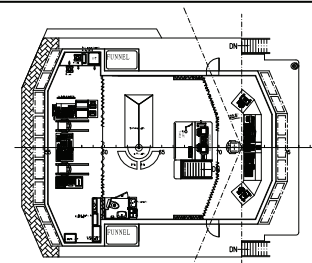
FIRE FIGHTING VESSEL CLASS1,
OFFSHORE SUPPORTING VESSEL,
E, +AMS, +DPS-1

A SECOND MASTHEAD LIGHT ABAFT OF AND HIGHER
THAN THE FORWARD ONE SHALL BE EXHIBITED.

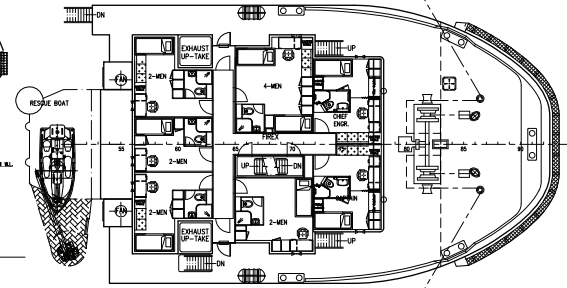
A RECOMMENDATION IS TO BE MADE THAT A TOE BOARD OR KICK PLATE
BE INSTALLED ON THE DECK BELOW THE LOWER RAIL COURSE IN ORDER
TO REDUCE THE LIKELIHOOD OF INJURY DUE TO A FOOT/LEG SUPPING
UNDER THE LOWER RAIL COURSE.



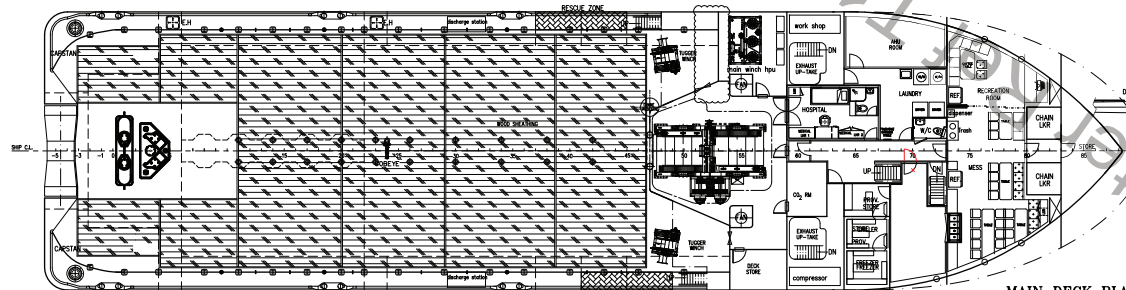
OUTBOARD PROFILE



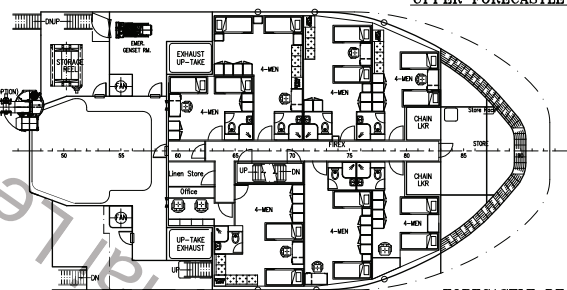
NAV. BRIDGE DECK



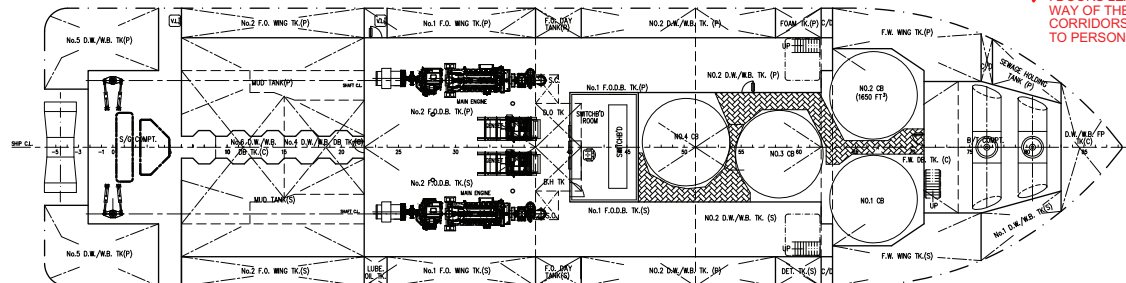
UPPER FORECASTLE DECK



MAIN DECK PLAN



FORECASTLE DECK



BELOW MAIN DECK PLAN

✓: DOORS LEADING FROM SHIP'S OFFICE, GALLEY SHALL OPEN IN
WAY OF THE DIRECTION OF ESCAPE. WHEN DOORS OPEN IN TO
CORRIDORS, APPROPRIATE ARRANGEMENTS TO AVOID INJURY
TO PERSONS IN THE CORRIDOR SHALL BE CONSIDERED.

SEE COMMENT L-001 ON ABS LETTER.



AS AMENDED
on page(s) _____

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1	ACCOMMODATION UPDATED AS YARD COMMENT	YUMINYE	27.04.13
ITEM	DETAILS OF MODIFICATION	REV	DATE
CONTRACT	KHIAM CHUAN MARINE PTE LTD 15, HILLVIEW TERRACE, SINGAPORE 669226 TEL: 67753382 (6 LINES) FAX: 67753788 E-MAIL: kchi@kchi.com.sg		
PROJECT	BUILDUP, GUANGDONG YUEBIN OCEAN ENGINEERING CO. LTD.		
	58.7m ANCHOR HANDLING SUPPLY VESSEL		
TITLE	GENERAL ARRANGEMENT		
CLASSIFICATION	SCALE	HULL NO.	YX3172/2013
DRAWN	CHECKED	SCALE	DRAWING NUMBER
YUMINYE		1:125	KCM/Q383/5-G1
REV.			1