



OFFSHORE TECHNOLOGY SOLUTIONS LTD.



OFFSHORE TECHNOLOGY SOLUTIONS LTD.

CARIB SUN

UTILITY VESSEL

OTSL - 30.2M. AHT - Tug and utility vessel is a well rounded support vessel capable of a small passenger capacity and rugged horsepower. It's dual Cummins KTA38 - M2 engines, 5:1 reduction gears as well as large four blade propellers enables a 25T bollard pull.

CARIB SUN - UTILITY VESSEL.



Offshore Technology Solutions Ltd. - Tropical Marine Building, 106 Western Main Road, Chaguaramas, Trinidad, West Indies.
Telephone: 1 (868) 634-2213 - 2216 - FAX 1 (868) 634-4449 - Email: info@otsl.biz - Web: www.otsl.biz



OFFSHORE TECHNOLOGY SOLUTIONS LTD.

OFFSHORE TECHNOLOGY SOLUTIONS LTD.

CARIB SUN

VESSEL SPECIFICATIONS - Pg.1

MAIN PARTICULARS

L.O.A. 99.0 FT. 30.2 M.
 L.B.P. 89.2 FT. 27.2 M.
 BEAM MLD. 29.5 FT. 9.0 M.
 DEPTH MLD. 15.0 FT. 4.6 M.
 DESIGN DRAFT..... 12.4 FT. 3.8 M.
 HORSE POWER 2400 TOTAL
 BALLARD PULL 25 TONNES

CAPACITIES

FUEL OIL..... 64,722 USG 245.0 M3
 FRESH WATER 19,500 USG 74.0 M3
 BALLAST WATER 18,700 USG 71.0 M3
 LUBE OIL STORAGE 924 USG 3.5 M3
 DIRTY OIL STORAGE 924 USG 3.5 M3
 SEWAGE TREATMENT 406 USG 1.54 M3

MACHINERY

MAIN ENGINES 2X Cummins KTA38-M2
 HORSEPOWER Rated @1200HP @1800RPM ea
 GEARBOX Twin Disc MG5321 Ratio 5.96:1
 GENERATORS 2X Cummins 6BT5.9-DM
 78KW, 415V, 50Hz. 3Phase
 PROPELLERS 2X 4-Bladed Fixed Pitch
 bronzed in Kort Nozzle
 SHAFTING 2 X 7" - 316 Stainless Steel
 STERN TUBES Ferroform water lubed bearings
 WINDLASS ME-3THWL22C330 (Double)
 80HP, 3 TON @ 10M/min.
 ANCHOR/CHAIN 2X 480Kg Stockless Bower
 AH/TOW WINCH ME-40THW 80HP @ 15M/min
 VERTICAL CAPSTAN .. ME-3THVC Rated @ 3 TON
 TOWING HOOK TH-40T SWL Hook Quick Rel.

ACCOMMODATIONS

WHEEL HOUSE YES
 GALLEY..... YES
 MESS ROOM YES
 SHOWER 2
 HEAD..... 3
 CREW BIRTH 1 x 10
 CAPTAIN BIRTH YES 1x1 Person
 CH. ENGINEER BIRTH ... YES 1x1 Person

ELECTRONICS & CONTROLS

ICOM VHF IC-M304 1 SET
 SAMYUNG STR-6000A 1 SET
 (VHF/GMDSS)
 GARMIN 128 GPS 1 SET
 FURUNO RADAR 1715 MKII 1 SET
 FURUNO ECHO SOUNDER ... 1 SET
 FVC-620
 ICOM SSB IC M-710 1 SET
 SAMYUNG SI-30 UAIS 1 SET
 SAMYUNG SEP-406 EPIRB . 1 SET
 MAGNETIC COMPASS T-150. YES
 RAYTHEON NP 60 AUTO PILOT 1 SET
 MCMURDO S4 SART 1 SET
 FURUNO FELCOM 16 1 SET
 (INMARSAT/ LRIS)
 SAMYUNG SRG 3150 1 SET
 (DN HF/MF/DSC)
 ENGINE TELEGRAPH 1 UNIT
 INTERCOM 1 UNIT
 RUDDER INDICATOR 1 UNIT
 SHAFT TACHOMETER 2 UNITS
 1000W SEARCHLIGHT 1 UNIT

PERFORMANCE

MAXIMUM SPEED.....13 KNOTS @ GPH
 CRUISING SPEED11 KNOTS @ 80 GPH
 ECONOMICAL SPEED ..9 KNOTS @ 62 GPH
 MAX. ENDURANCE 20 DAYS
 MAX. RANGE 5300 N/M



OFFSHORE TECHNOLOGY SOLUTIONS LTD.

OFFSHORE TECHNOLOGY SOLUTIONS LTD.

CARIB SUN

VESSEL SPECIFICATIONS - Pg.2

HULL COMPARTMENTS

FOREPEAK BALLAST TANK/ CHAIN LOCKER
UNDER DECK ACCOMMODATION
w/ FRESH WATER DOUBLE BOTTOM TANKS
FUEL OIL FWD TANKS, P, S, & CENTRE
FUEL OIL AFT TANKS, P, S, & CENTRE
STEERING GEAR COMPARTMENT

CONSTRUCTION /SHELL PLATING

KEEL	12.00 MM
BOTTOM	9.50 MM
SIDE	9.00 MM
DECK	9.00 MM
BULKHEAD	8.00 MM
WHEELHOUSE	6.00 MM
BULWARK	8.00 MM

FIRE FIGHTING & SAFETY EQUIPMENT

EMBARKATION LADDER	1
9 LT. ABC FIRE EXTINGUISHER	8
45 LT. 'FOAM' FIRE EXTINGUISHER	1
36" LONG HAND FIRE AXE	1
ALDIS LAMP	1
15 PERSON INFLATABLE RAFT	2
30" SOLAS APPROVED LIFE BOUY	8
SOLAS APPROVED LIFE JACKET.....	16
c/w WHISTLE & LFE JACKET LIGHT	
PARACHUTE DISTREE ROCKET	12
10 PERSON FIRST AID BOX	1
BLACK ANCHOR BALL	3
BRASS SHIP BELL	1
BLACK DIAMOND BALL	1
FIRE BUCKET (STEEL)	3
FIREMAN SUIT, FIREMAN AXE,	1 SET
BA SPARE CYLINDER FIREPROOF LINE.	
EXPLOSION PROOF TORCH LIGHT, BREATHING APPARATUS	

NAVIGATION LIGHTS

MASTHEAD	3
PORT	1
STERN	1
STARBOARD	1
NUC	3
ANCHOR	1
TOWING	1
IMMIGRATION	2

GEAR, PUMP & RUDDER INFORMATION

STEERING GEAR:

1 SET - a. ELECTRIC HYDRAULIC STEERING
GEAR SYSTEM (JOYSTICK TYPE & EMERGENCY HELM)
1 SET - b. INTERCOM TELEPHONE

BILGE & BALLAST PUMP:

1 SOUTHERN CROSS CENTRIFUGAL PUMP
65 X 50-160, 5.5KW/3000RPM

GS & FIRE PUMP:

1 SOUTHERN CROSS CENTRIFUGAL PUMP
65 X 50-160, 5.5KW/3000RPM

FUEL TRANSFER PUMP:

1 SOUTHERN CROSS CENTRIFUGAL PUMP
65 X 50-160, 5.5KW/3000RPM

F/W TRANSFER PUMP:

1 SOUTHERN CROSS CENTRIFUGAL PUMP
65 X 50-160, 5.5KW/3000RPM

FUEL OIL TRANSFER PUMP:

1 HORIZONTAL GEAR PUMP

SLUDGE /DIRTY OIL PUMP:

1 1 1/2" GEAR PUMP w ENGA Y100L1-4 MOTOR 3HP,
2.2KW/ 1500RPM



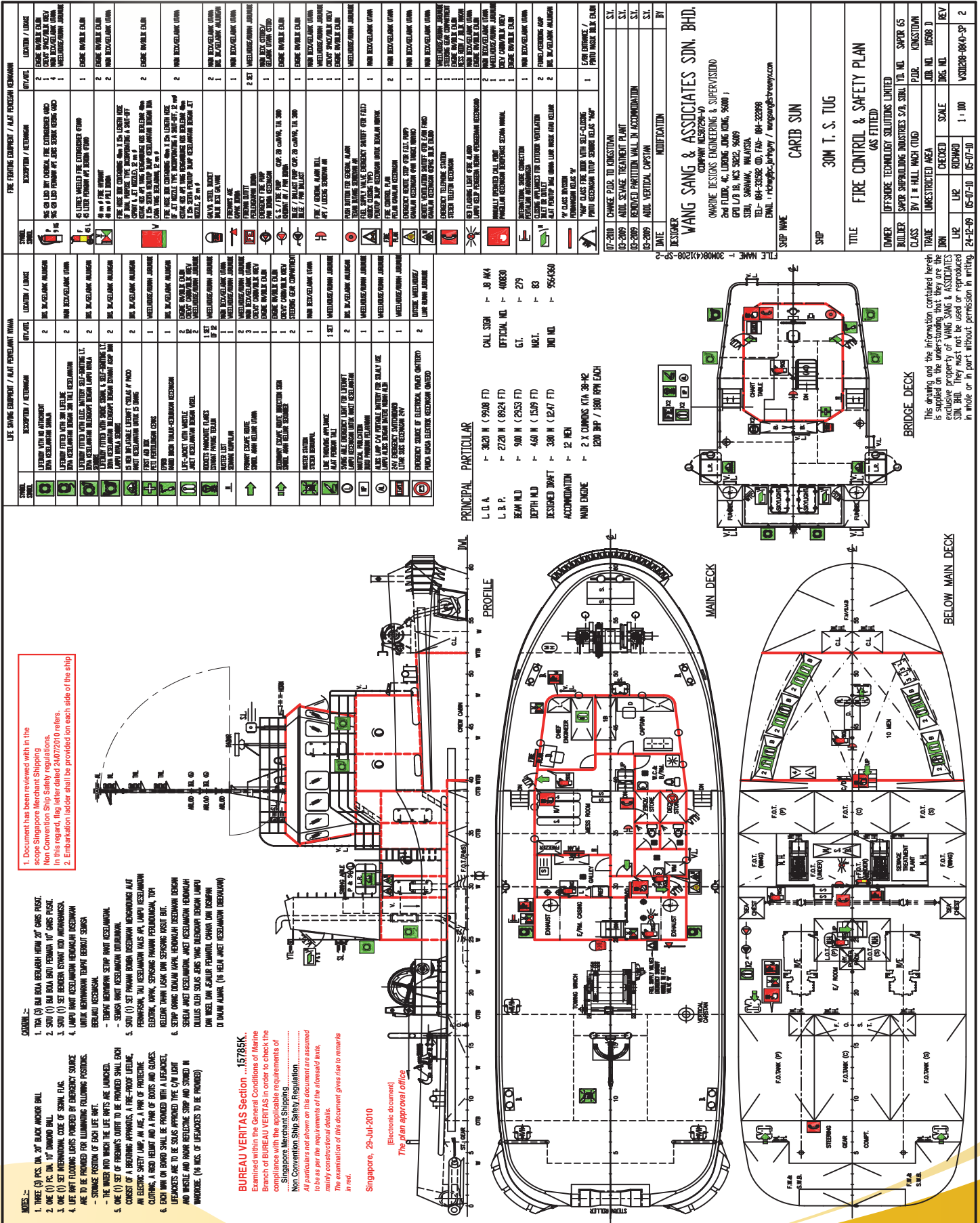
OFFSHORE TECHNOLOGY SOLUTIONS LTD.

OFFSHORE TECHNOLOGY SOLUTIONS LTD.

CARIB SUN

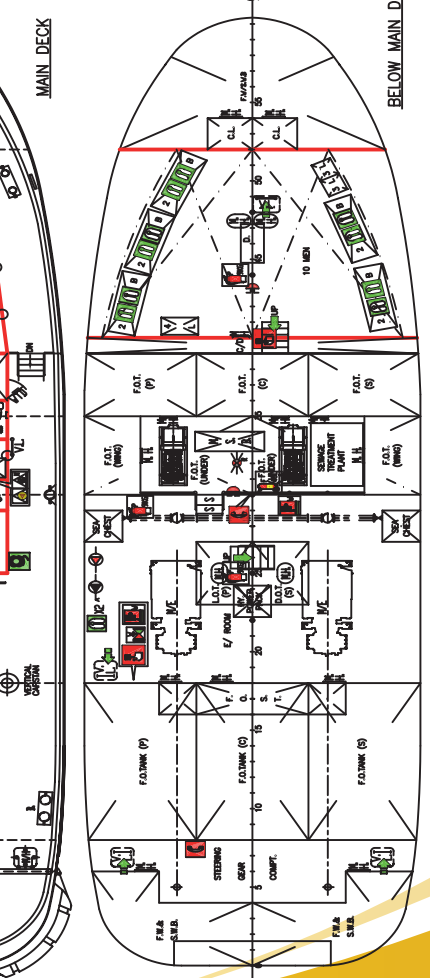
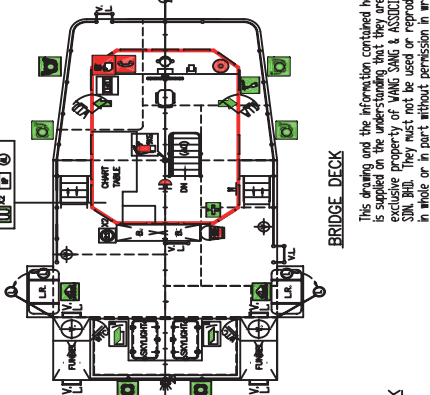
VESSEL DRAWING & LAYOUT





PRINCIPAL PARTICULARS

- L. D. A. - 302.8 H (9948 FT)
- L. B. P. - 272.0 H (8924 FT)
- BEAM W/D - 46.0 H (1509 FT)
- DESIGNED DRAFT - 38.0 H (1247 FT)
- ACCOMMODATION - 12 MEN
- MAIN ENGINE - 2 X CUMMINS K1A-38-12 1200 BHP / 1000 RPM EACH
- CALL SIGN - JG AK4
- OFFICIAL NO. - 40830
- G.T. - 279
- NRT. - 83
- IMO NO. - 5564380



1. Document has been reviewed with in the scope Singapore Merchant Shipping Non Convention Ship Safety Regulations. In this regard, flag letter dated 24/07/2010 refers.

2. Embarkation ladder shall be provided on each side of the ship

- ### MISC.:
- THREE (3) PCS. IN. 20" BLACK ANCHOR BALL
 - ONE (1) PC. IN. 10" ANCHOR BALL
 - ONE (1) SET OF DECKING CODE OF SIGNAL FLAG
 - LIFE RAFT PROVIDED FOR LANDING FOLLOWING POSITIVE STOWAGE POSITION OF EACH LIFE RAFT
 - STOWAGE POSITION OF EACH LIFE RAFT
 - THE WHEEL WHEN THE LIFE RAFTS ARE LAUNCHED
 - ONE (1) SET OF PREMATS COATED TO BE PROVIDED SHALL EACH CONSIST OF A PROTECTIVE APPROVED A FIRE-PROOF LIFELINE, AN ELECTRIC SHOCK LAMP, AN IEC A TYPE OF PROTECTIVE CLOTHING, A HEAD RELEASER AND A PAIR OF BOOTS AND GLOVES.
 - EACH MAN ON BOARD SHALL BE PROVIDED WITH A LIFEJACKET, LIFEJACKET, AND INFLATOR APPROVED TYPE C/M LIGHT, AND INFLATOR APPROVED TYPE C/M LIGHT, AND INFLATOR APPROVED TYPE C/M LIGHT AND INFLATOR APPROVED TYPE C/M LIGHT.
 - ONE (1) SET OF PREMATS COATED TO BE PROVIDED SHALL EACH CONSIST OF A PROTECTIVE APPROVED A FIRE-PROOF LIFELINE, AN ELECTRIC SHOCK LAMP, AN IEC A TYPE OF PROTECTIVE CLOTHING, A HEAD RELEASER AND A PAIR OF BOOTS AND GLOVES.
 - EACH MAN ON BOARD SHALL BE PROVIDED WITH A LIFEJACKET, LIFEJACKET, AND INFLATOR APPROVED TYPE C/M LIGHT, AND INFLATOR APPROVED TYPE C/M LIGHT, AND INFLATOR APPROVED TYPE C/M LIGHT.

BUREAU VERITAS Section - 15785K.

Examined within the General Conditions of Marine Branch of BUREAU VERITAS in order to check the compliance with the applicable requirements of Non-Convention Ship Safety Regulation.

All particulars not shown on this document are assumed to be as per the requirements of the Afloatside Acts, mainly constructional details.

The examination of this document gives rise to remarks in red.

Singapore, 28-July-2010

(Electronic document)

The plan approval office

This drawing and the information contained herein is supplied on the understanding that they are the exclusive property of WANG SANG & ASSOCIATES SING. They must not be used or reproduced in whole or in part without permission in writing.