

## HAI YANG SHI YOU 681

### GENERAL DATA

Year Built	2011
Builder	Wuchang Shipbuilding Industry Company LTD
Design	Rolls-Royce
Type	AHTS
Registry Port	Zhanjiang
IMO NO.	9561849
Call Sign	BYGD
Flag	CHINA
Classification	CCS
Class Notation	★CSA Offshore Tug/Supply ship, Stand-by Ship, Anchor Boat, Oil Recovery Ship B, Fire Fighting Ship 1, Water Spraying, Ice Class B, Strengthen Deck, Max. Cargo Density in Mud Tank(2.8 t/m <sup>3</sup> ), Clean Plus, Loading Computer(S,I,D), COMF(Noise)3, COMF(VIB)3, NAV-OSV, In-Water Survey, ★CSM AUT-0, DP-2, PR-2, SCM, CMS

### MAIN DIMENSIONS

L.O.A.	93.4 m
B. Mld.	22 m
D. Mld.	9.5 m
Draft Load	9.1 m
Draft Light	6.38 m
Gross Tonnage	6889
Net Tonnage	2066
Deadweight	4700t

### PERFORMANCE

Maximum Speed	18.0 knots
Economic Speed	10-12.0 knots
Bollard Pull	339 tons

### DECK CAPACITIES

Deck Area	43.3 m x 18.8 m. 810 sq.m
Deck Cargo	2000t
Deck Strength	10 t/sq.m

### CARGO CAPACITIES

P. Water	1100cu.m
D./B. Water	3300cu.m
Diesel Oil	1100 + 1710.0 cu.m. (Including combination tanks mud/brine)
Bulk	260 cu.m (4 tanks)
Liquid Mud / Brine	710.0 cu.m. ( 6 tanks )
Base Oil	220.0 cu.m
Oil Recovery	940.0 cu.m. (4 Mud/Brine + centre F.O. tk.)

### DISCHARGING RATES

P. Water	2 x 150 cu.m. /hr. at 0.9Mpa
D./B. Water	2 x 250 cu.m. /hr. at 0.9Mpa
Diesel Oil	1 x 150 cu.m. /hr + 1 x 125 cu.m. /hr. at 0.9Mpa
Bulk	2 x 60 cu.m/hr. at 0.56Mpa
Liquid Mud	2 x 100 cu.m. /hr. at 2.4Mpa
Base Oil	1 x 125 cu.m. /hr. at 0.9Mpa
Oil Recovery	1 x 75 cu.m. /hr. at 1.8Mpa

### ACCOMMODATION

Crew	18
Passenger	42



### MACHINERY & PROPULSION

Main Engine	2 x WARTSILA16V32/40
Main Power	2 x 8000KW, Total 21768 HP
Total Power	2 x 8000KW M/E + 2 x 3000KW PTI (Hydri) + 1500KW (A-Z Swing-up)
Propeller	2 x Rolls-Royce in kort nozzles, D4800mm
Generator Sets	Auxiliary Generator: 4 x 2200KW 690V/60HZ Shaft Generator: 2 x 4000KW 690V/60HZ Emergency generator: 1 x 400kW690V/60HZ
Bow Thruster	2 x 1000KW(Tunnel); 1 x 1500KW(A-Z Swing-up)
Stern Thruster	1 x 1000KW(Tunnel); 1 x 1500KW(A-Z Swing-up)

### TOWING & AH EQUIPMENT

Winch	Rolls-Royce SL500W/2BSL450WX
Towing Drum	Working Drum Cap: D76mm x 14800m + D90mm x 3500m
Towline	D90mm x 2000m
AH Wire	D90mm x 2500m
Secondary Winch	Rolls-Royce 2SL170WX (Drum Cap: D168mm x 11000m)
Stern Roller	L6000mm(2rollers) x D4500mm, MWL, 750T
Towing Pins	2sets/vessel Max Working Lord: 400T
Shark Jaw	2sets/vessel Max Working Lord: 800T
SDO Crane	2 x SWL: 5 T @ 2.6 -14.3m

### SAFETY & FIFI & ANTIPOLLUTION EQUIPMENT

Life Raft	3 x 25 persons x 2 (PORT & STBD)
Rescue Boat	1set x 6Persons: Max speed ≥ 28kn, With 3persons Water jet
Fifi	Fifi 1 +water spray .Capacity: 2400m <sup>3</sup> /h at 140mlc
Antipollution	Dispersant Tank: Spraying Arm:

### NAVIGATION & COMMUNICATION

Gyro-Compass	3 x NAVIGAT x MK 1
Magnetic Compass	1 x NAVIPOL I
Radar	1 x VisionMaster FT; 1 x VisionMaster FT
INMARSAT-C	2 x TT-3000E
INMARSAT-F	1 x SAILOR 500
SSB	SAILOR SYSTEM 5000
VHF	2 x SAILOR RT5022; 2 x SAILOR RT 2048
GPS	2 x GP150
Facsimile	1 x FAX-408
Wind Indicator	DEIF WSDI-2
Echo Sounder	1 x GDS102
Autopilot	1 x NAVIPILOT 4000
Radio	SAILOR SYSTEM 5000
EPIRB	E5
NAVTEX	NX-700A
Wave Detector	Miros Wavex
Electronic Chart System	2 x VisionMaster FT ECDIS

### DYNAMIC POSITIONING SYSTEMS

DP2, Rolls-Royce