

## HAIYANGSHIYOU684/685

### GENERAL DATA

Delivery Date	2015
Buider	Shanghai Zhenhua Heavy Industry CO., LTD.
Design	Rolls-Royce
Vessel Type	AHTS
Flag	CHINA
Classification	CCS
Class Notation	★CSA Offshore Tug / Supply ship, Anchor Handling, Stand-by Ship, Fire Fighting Ship 1, DP-2 ★CSM AUT-0

### MAIN DIMENSIONS

L.O.A	81.2m
D. Mid.	8.3m
B. Mid.	19.2m
Draft Load	7.0m ( e x cluding skeg ) ; 8.02m ( including skeg )
Draft Light	5.0m ( e x cluding skeg ) ; 6.02m ( including skeg )
Scantling Draft	7.1m
Gross Tonnage	~ 3934
Net Tonnage	~1330
Dead Weight	~3100t

### PERFORMANCE

Maximum Speed	≥ 16.0 knots
Economic Speed	13-15 knots
Bollard Pull	≥ 180ton

### DECK CAPACITIES

Deck Area	610 sq.m
Deck Cargo	1200t
Deck Strength	10 t/sq.m

### CARGO CAPACITIES

P. Water	844cu.m
D./B Water	2428cu.m
Diesel Oil	1620 cu.m ( Including combination tanks )
Bulk	230 cu.m (4 Tanks)
Liquid Mud	735 cu.m
Brine	482 cu.m
Base Oil	366 cu.m

### DISCHARGING RATES

P. Water	1 x 150 cu.m. /hr. at 1Mpa
D/B Water	2 x 150 cu.m. /hr. at 1Mpa
Diesel Oil	1 x 120 cu.m. /hr at 0.9Mpa
Bulk	2 x 37.5 cu.m. /hr. at 0.56Mpa
Liquid Mud	2 x 75 cu.m. /hr. at 1.8Mpa
Base Oil	1 x 100 cu.m. /hr. at 0.9Mpa
Brine	1 x 75 cu.m. /hr. at 1.8Mpa

### ACCOMMODATION

Crew	16
Passenger	8



### MACHINERY & PROPULSION

Main Engine	4 x MAN 8L27/38
Main Power	4 x 2920KW, Total 11680KW
Propeller	2 x BERG CPP in nozzles, D 4200mm
Generator Sets	Auxiliary Generator : 2 x 400KW 400V/50HZ Shaft Generator: 2 x 2400KW 400V/50HZ Emergency generator: 1 x 120KW 400V/50HZ
Bow Thruster	1 x 15.3T (Tunnel); 1 x 15.9T (A-Z Swing-up)
Stern Thruster	2 x 15.3T (Tunnel)

### TOWING & AH EQUIPMENT

Winch	Rolls-Royce BSL350/2SL350W
Towing Drum	2 x D76mm x 1600m+D76mm x 3500m
Towline	2 x D76mm x 1500m ( one duty one spare )
AH Wire rope reel	D76mm x 600m+D76mm x 300m Rolls-Royce LAKM x 63010 ( wire capacity : D76mm x 1670m )

Stern Roller	Twin type, 2xL3000mmxD3500mm,MWL,550T
Towing Pins	2sets/vessel, SWL: 300T
Shark Jaw	2sets/vessel, SWL: 600T
Chain Lockers	398cu.m, 4tanks

### SAFETY & FIFI & ANTIPOLLUTION EQUIPMENT

Life Raft	4set x 25Persons, type:self-right inflatable liferaft
Rescue Boat	1set x 6Persons; Maximum speed ≥ 25kn, With 3persons Water jet
FiFi	FiFi 1, Capacity: 2 x 1200m3/h

### NAVIGATION & COMMUNICATION

Gyro-Compass	Sperry/Dual NAVIGAT x MK1
Magnetic Compass	Sperry/NAVIPOL I
Radar	Sperry/Vision Master FT/1 SET X-BAND/1 SET S-BAND
INMARSAT-C	SAILOR/6110/2 SETS
INMARSAT-F	SAILOR/FB250
MF/HF SSB	SAILOR/6350/500W
VHF	SAILOR/6222/2 SETS/25W/6210/2 SETS/25W

GPS	SAAB/R5/2 SETS
Facsimile	FURUNO/FAX-408
Echo Sounder	SKIPPER/GDS 101/200kHz
Autopilot	Sperry/NAVIPLOT 4000
Radio	SAILOR/6000 series
EPIRB	McMurdo/E5
NAVTEX	FURUNO/NX-700A
Electronic Chart System	Sperry/Vision Master FT

### DP System

DP2	KONGSBERG
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