

# 9000KW AHTS -- Haiyangshiyou 697



Name of ship : HAIYANGSHIYOU 697  
Date of Build : 2009-07-13  
Nationality : Hong Kong  
Port of Registry : Hong Kong  
Classification : AI,towing vessel,fire fighting vesselclass 1,offshore support vessel AH,AMS,DPS-2  
Kind of Ship : Rescue,Supply,Anchor-handling Tug  
Shipbuilder : Fujian southeast Shipyard, China  
MMSI No. : 477622300  
IMO No : 9516961

## DIMENSIONS

Length BP : 64.80 m  
Principal Dimensions : LOA (72.50m) / B (17.0m) / D (7.5m)  
Draft : 6.488 m(full), 5.6 m(light)  
Gross Tonnage : 2921  
Net Tonnage : 876  
Power of Main Engines : 4500kw x 2 (total: 9000kw,12000BHP)  
Endurance : 12000 N miles  
Bollard Pull : 150 Tons  
Speed : 14.5 knots (Max.), 13.0 knots (Navigation)  
Sailing Area : World-wide

## TANK CAPACITY

Fuel Oil  
Diesel Oil : 1162.6 m3  
M/E Lube Oil : 14.2M3  
A/E Lube Oil : 6.9 m3  
Fresh Water : 738.214 m3

Ballast Water : 549.7 m3  
Liquid Mud : 722.88 m3

#### LIQUID TRANSFER RATES

Water : Capacity/Pressure: 150M3/h / 90M  
Oil : Capacity/Pressure: 150 M3/h / 90M

#### MACHINERY

Main Engines : Type:Bergen B32:40L9P, Maker:Rolls-Royce Marine AS,Bergen Norway, Rated output:4500KW750RPM X 2 SETS (Total: 12069 HP)

Aux. Engines : Type:CATERPILLAR 3412C, Maker:CATERPILLAR USA., Rated output:620 kw x 2 sets

Generators : Type: SR4B, 2 sets, Maker: CATERPILLAR USA.  
Rated capacity: 737KVA, Rated volt.& cur.: 440V, 967A  
Phases & Freq.: 3, 60 Hz

Shaft Generators : Type: DSG 86 MI-4 ,2 sets, Maker: AVK Detschland GmbH & co.KG  
Rated capacity: 2163 KVA , Rated volt.& cur.: 440V, 2838A,  
Phase & Freq.: 3, 60Hz

Emergency Generator : Type:M 44.2S7 C 6/4, Maker: LEROY SOMER  
Rated output power: 95 kw, Rated volt.& Freq.: 440V, 60Hz

Emergency Fire pump : Maker & Type: DESMI (MODEL:S80-70-220N/A09-2)  
Capacity & Range: 45 m3 , 60 m

Main Engine Air Compressor : Type: HL 2/77-90-105,2 sets, Maker: SPERRE  
Capacity: 28 m3 /hr, Delivery pressure: 3 Mpa

Propellers : Description:KAMEWA ULSTEIN-CONTROLLABLE PITCH Propeller, 4blades, BOTH OF OUT-BOARD TURNING  
Propeller Dia.& rev.: 3900 mm, 156.3 rpm

Rudders : 2 x S-A type rudders type:S-A 2050/253 F.2,area:8.53m2  
diameter;253mm ,forces and moments:M.C.R. speed ahead=660221kn,expected torque at 15kts-speed ahead =87974knm,max.rudder angle=2\*45gead

Steering gear : Hydraulic, 2 sets ,Maker & Type: wagner,LA2 11.8-45-CB2

Bow thruster : 1 set ,Maker & Type: Kamewa Ulstein, TT1650 DPN-CP,  
Propeller Dia. 1650 mm x 4 blades, Input Power & Thrust:  
735kw, 10.8 tonnes

Retractable Azimuth Thruster(engine driven) : Maker(engine):cummins(model:KTA38-M1) 1  
no.\*1000bhp\*1800rpm Brand(FPP):Ulstein  
aquamaster(model:UL911/4220)1600mm dia.4-bladed propeller.

Stern thruster : 1 set ,Maker & Type: Kamewa Ulstein, TT1650 DPN-CP,  
Propeller Dia. 1650 mm x 4 blades, Input Power & Thrust:  
735kw, 10.8 tonnes

#### TOWING /ANCHOR HANDLING EQUIPMENTS

Towing/Anchor handling winch : Towing winch Type: SL350W/BSL350W, Rated load: 350/14 ton, Rated speed: 6.1/74 m/min, Drum: 2 pcs , Maker: ROLLS-ROYCE MARINE AS

Wildcat (cable lifter) : Fitted outside of the anchor handling drum, Starboard-side for 90mm chain, Port-side for 90mm chain

Tow wire : ① Dia. 82.5 mm x 1520 metres  
② Dia. 82.5 mm x 810 metres  
Spare: 82.5 mm x 1526 metres ;82.5 mm x 860 metres

Shark Jaw : Maker:karmoy winch(type:M330201B)\*2sets SWL:650tons

Towing Pins : Maker:karmoy winch(type:M330201B)\*4sets SWL:300tons

#### DECK EQUIPMENTS

Anchor : Type:HHP stockless anchor;1.92t

Anchor Chain : Type:flash butt-welded 46  
: Manufacturer:rolls-royce marine-deck machinery

Windlass Type:LBFMG63046  
14T  
: Manufacturer:rolls-royce

Tugger winch Type:LAKMX41017  
15t  
: Manufacturer:rolls-royce

Capstan Type:LCMC41010  
10T

Deck Crane : Manufacturer:TTS  
Type:ATB130/15E2

#### NAVIGATION/COMMUNICATION EQUIPMENTS

Gyro Compass : Type: STANDARD 22, Maker: Raytheon Anschutz GmbH

Auto Pilot : Type: 102-864NG003, Maker: Raytheon Marine GmbH

Echo Sounder : Type: FE-700, Maker: FURUNO ELECTRIC CO.LTD

Radar : Type: FAR-2117, Maker: FURUNO ELECTRIC CO.LTD  
: Type: FAR-2117, Maker: FURUNO ELECTRIC CO.LTD

Speed Log : Maker & Type: FURUNO ELECTRIC CO.LTD, DS-80

Weather Facsimile Receiver : Type: FAX-408, FURUNO ELECTRIC CO.LTD

NAVTEX receiver : Type: NX-700, FURUNO ELECTRIC CO.LTD

DGPS : Type: LD5/LID3, VERIPOS

AIS : Type: FA-150, FURUNO ELECTRIC CO.LTD

SSAS : Maker & Type: FURUNO ELECTRIC CO.LTD, IC-307

Satcom-F : Maker & Type: THRANE&THRANE, 3738A/3739A

Satcom-C : Maker & Type: FURUNO ELECTRIC CO.LTD, FELCOM-15

SART : Maker & Type: mcmurdo, S4

MF/HF Transceiver with DSC : Maker & Type: FURUNO ELECTRIC CO.LTD, FS-2570C

VHF Radio : Maker & Type: FURUNO ELECTRIC CO.LTD, FM-8800S

406MHz S-EPIRB : Maker & Type: MCMURDO, E5

DP2 : CONVERTTEAM, UK

## LIFE-SAVING & FIRE-FIGHTING EQUIPMENTS

Rescue boat : 6 p x 1 sets  
Life raft : 25 p x 6 sets  
Fire Pump : Type: C22BA-12-16-H, Capacity: 1650 m<sup>3</sup>/h, 2 sets, total head 147mlc for 2nos. \*1200m<sup>3</sup>/hr water monitor & 300m<sup>3</sup>/hr foam monitor c/w deck spray nozzle and 4-way deck delivery head & oil dispersant spray boom system

## DECK CAPACITIES

Clear deck space: 510 m<sup>2</sup>, Clear Deck Dimension: 34.6 x 14.1 metres  
Deck Strength: 5.5 tons/m<sup>2</sup>, Crash Rail: 2.7 metres height  
Deck Cargo capacity: 500 M<sup>3</sup>

## ACCOMMODATION

CABIN: 2 SINGLE BED/CABIN + 2 BEDS X 3 CABIN + 4 BEDS X 10 CABIN  
CERTIFIED LSA FOR: 48P

All above information is believed to be correct but without guarantee