

## Consider it is done

# **30000 DWT SELF-UNLOADING BULK CARRIER**

OC Aggnes was built by Yantai CIMC Raffles Offshore Limited based on offshore standards. Theoretical weight is 30,000t. It features a world class hydraulic self-unloading system at 3,000mt (2,500 m3) per hour for transporting cargo, such as coal, stone and grain etc. OC Aggnes was delivered in January 2010, it is the first self-unloading bulk carrier in China.

#### GENERAL

: ABS Class

Class

#### Notation : I HULL, MACH, Bulk Carrier, BC-B, Unrestricted navigation, AUT-UMS, VeriSTAR-HULL, MONSHAFT, Builder INWATERSURVEY, Additional; ESP UWILD CRC PRINCIPAL DIMENSIONS Length o.a. : 175.00m Length pp : 169.40m Breadth moulded : 26.00 m Design Draught : 9.00 m Moulded Draught (freeboard): 10.63 m Depth to main deck : 14.5m : 32 m Max, air draft DESIGN ENVIRONMENT : World wide Service area Self-unloading equipment: Ambient temperature : -25°C min. to 45°C ~max .(assumed) Operating wind speed : Approximately 13 m/sec. (assumed) **CARGO CAPACITIES** Cargo Hold : 28,400 m<sup>3</sup> Tank Capacities: Cargo holds :28,400 m<sup>3</sup> Discharging capacity per hour :3,000 tons/2,500 m<sup>3</sup> Boom outreach (beyond ship's side) : 77.00 m. Clean water ballast : 15,000 m<sup>3</sup> Fuel: H.F.O. (incl. settle./day tanks): 1,150 m<sup>3</sup> Diesel oil (incl. day tank) : 240 m<sup>3</sup> Technical freshwater, washing purpose only: 1,500 m<sup>3</sup> Lubricating oil : 2 x 5 m<sup>3</sup> Fresh water · 300 m<sup>3</sup> MACHINERY/PROPULSION : Rolls-Royce Marine AS, B32:40L8P,(2)x4000 KW. Main engine Main Generators : 2x910kw/eachx1,800r/min.x450VAC,60HZ, 3p,0.8pf with exhaust turbo-charged trunkpiston type marine unit. Shaft generator : 1x2000kwx1,800r/min.x450VAC,60Hz,3p,0.8pf. : CATEPILLAR ARCB 450VAC, 315 KW Emergency Propeller : One controllable pitch, Ni-A1-bronze, clockwise looking from aft. : 2x approx 750kw with controllable pitch propeller. Thruster **HFO** Purifier : 2x1600 l/h DO Purifier : 1x800 l/h Lube Oil Purifier : 1x1600 l/h : K/KD 1.5 + (0.75+0.75)/7 :1500kg/h 9bar Steam Boiler : 1x 23 persons complying with USCG. Sewage Plant : 2 ballast main lines, stripping lines to be fitted. **Ballast System** FW Generator : 1x 15tons/day, plate type. Main Air Compressor: 2x35 m3/h,3.0Mpa , air cooled ,two stages, two cylinder. Motor driven, screw type. Ballast Pump : 2x800 m3/h,head water column 25, motordriven vertical centrifugal with self priming unit. **FIRE FIGHTING & SAFETY** : 2x 90 m3/hx7bar(head water column)+1x72 **Fire Fighting** m3/h-7 bar Em. pump : 1xmin.21men free-fall life boat with Life Boat recovery davit . : 1x 6 men with provision crane. **Rescue Boat** Life Rafts : 2 x 21 men, 1x6 men.

### NAVIGATION EQUIPMENT

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Satellite Communication (standard-F): 1 set Satellite Communication (standard-C): 2 set AIS : 1 set DGPS : 2 set VDR : 1 set **ECDIS** : 2 set Magnetic Compass : 1 set Radar Transponder : 2 set Echo Sounder : 1 set Navtex : 1 set Speed Log : 1 set Wind direction&speed Indicator: 1 set COMMUNICATION EQUIPMENT General alarm system : 1 set Public address system : 1 set Common battery telephone system: 1 set Automatic telephone system: 1 set LAN system : 1 set Fire detection & alarm system: 1 set Antenna multi-coupler for TV/FM/AM: 1 set ACCOMMODATION The accommodation is fit for 23 crew members and the spaces to be arranged, furnished and laid out in accordance with good Scandinavian standard. **REFRIGERATED STORAGE CAPACITY** Meat & fish room: 23 m<sup>3</sup> Vegetable room: 29 m<sup>3</sup> Dry provision: 29 m<sup>3</sup> DECK MACHINERY Windlass: 2-160KN+9m/min+1 C/L + 1 M/D +1W/E. Mooring Winches: 2-2M/D +1W/E with capacity 125 KNx15m/min(self-tension) 2-1M/D +1W/E with capacity 125 KNx15m/min Anchors: 2 x anchors, abt.4,210kg,high holding type. Cranes: 1x1.5t SWL with outreach at least 7.5m 2x1t SWL with outreach of approx. 2-3m HATCHES DIMENSIONS : (1)16.100M X 14.800M (2-7)14.700M X 14 800M WEIGHT OF HATCH COVER : APPROX65 TONS MAX PERMISSIBLE LOAD ON HATCH COVER: 17.2Kn/M2(1.75T/M2) MAX PERMISSIBLE LOAD ON TANK TOP:1.5T/m2 BOW THRUSTER: 1440KW(1927HP)/19 TON THRUST IMMER-SION:3.500M UNLOADING EQUIPMENT: EMS TECH INC SELF-UNLOADING SYSTEM CAPACITY : APPROX 3000 MT/HR(SUBJECT TO S/F OF CARGO) BOOM LENGTH: 90.000M(Approx boom weight MT) (coal 1500mt/hr) BOOM OUTREACH:77.000M MAX BOOM ELEVATION :18.00 DEGREES MAX HEIGHT ABV MAIN DECK : 31.560M(INCLUDING BOOM PED-ESTAL 3.750M)



