

Lampiran XIII

| | | Vessel - GREEN STARS | | Month: APRIL 2014 | |
|---|--------|------------------------------|--|----------------------------|--|
| MAIN ENGINE PERFORMANCE DATA SHEET | | | | | |
| Vessel: GREEN STARS | | Engine type: SULZER 6RTA 48T | | Hp: 11100 | |
| Engine builder: HYUNDAI | | Engine No: AA 1253 | | Rpm: 124 | |
| Date & time :- | | 12/04/2014 | | MAX LIMIT VALUE | |
| | | 1600 HRS | | Total running hours: 55330 | |
| RPM | | 110 | | 124 | |
| Load indicator | Pos | 7.6 | | 10 | |
| Output | Kw | 6600 | | 8160 MCR | |
| Fuel consumption | kg/hr | 875 | | | |
| Turbocharger (F / A) | rpm | 10000 | | 16000 | |
| Scavenge air pressure | kg/cm2 | 1.4 | | 2.75 | |
| Air temp before coolers (F / A) | °C | 114 | | 210 | |
| Air temp after coolers (F / A) | °C | 28 | | 51 | |
| Blower suction | mmWG | 120 | | 200 | |
| Pressure drop across air coolers (F / A) | mmWG | 140 | | 500 | |
| Exhaust pressure after turbines (F / A) | mmWG | 130 | | 300 | |
| Exh pressure drop across exh gas boiler | mmWG | 25 | | 150 | |
| Barometric pressure | mmWG | 1018 | | | |
| Exhaust manifold pressure | kg/cm2 | 1.4 | | 2.4 | |
| Exhaust temp before turbines (F / A) | °C | 415 | | 515 | |
| Exhaust temp after turbines (F / A) | °C | 360 | | 460 | |
| Exhaust temp after cylinder | °C | 360 | | 460 | |
| Cyl 1 / 2 | °C | 340 | | 438 | |
| Cyl 3 / 4 | °C | 350 | | 430 | |
| Cyl 5 / 6 | °C | 370 | | 430 | |
| Cyl 7 / 8 | °C | 370 | | 430 | |
| Pressure: compression / firing | kg/cm2 | 75/113 | | 125/150 | |
| Cyl 1 / 2 | kg/cm2 | 75/113 | | 125/150 | |
| Cyl 3 / 4 | kg/cm2 | 74/115 | | 125/150 | |
| Cyl 5 / 6 | kg/cm2 | 73/115 | | 125/150 | |
| Cyl 7 / 8 | kg/cm2 | 73/115 | | 125/150 | |
| Pressure | kg/cm2 | 6.4 | | 12.8 | |
| Lub oil pump/ bearing/ crosshead | kg/cm2 | 6.4 | | 12.8 | |
| Fuel oil after filter | kg/cm2 | 7.8 | | 10 | |
| JCW / PCO / NCW | kg/cm2 | 4.4 | | 3.6 | |
| Sea water | kg/cm2 | 1.8 | | 1 - 4 | |
| Temperature | °C | 25 | | 44 | |
| Lub oil before / after engine | °C | 25 | | 44 | |
| Fuel oil after engine | °C | 137 | | 115-150 | |
| Jacket cooling water (in / out) | °C | 69 | | 76 | |
| Piston cooling oil/wtr (in / out) | °C | 40 | | 55 | |
| Fuel inject NCW (in / out) | °C | 69 | | 74 | |
| Turbine clg water inlet/outlet (F / A) | °C | 69 | | 74 | |
| Turbine lub oil Bath temp. (T / B) | °C | 74 | | 68 | |
| | °C | 27 | | | |
| Turbocharger | | | | Turbocharger | |
| | | | | Type: VTR564D | |
| | | | | Frequency of washing | |
| | | | | Blower: DAILY | |
| | | | | Turbine: -----250 Hrs | |
| | | | | Crankcase oil | |
| | | | | Name: Castrol CDX - 30 | |
| | | | | Consp / 24hrs: 20 LTRS | |
| | | | | Cylinder oil | |
| | | | | Name: Cyltech 70 | |
| | | | | Consp / 24hrs: 145 LTRS | |
| | | | | Cooling water inhibitor | |
| | | | | Jacket: EWT 9-108 | |
| | | | | Piston: OIL | |
| | | | | COOLED | |
| | | | | Fuel injector: N/A | |
| | | | | Ship | |
| | | | | Type: OIL TANKER | |
| | | | | Length PP: 174.50 mtrs | |
| | | | | Draft: Tropical: 11.246m | |
| | | | | Summer: 11.017m | |
| | | | | Propeller | |
| | | | | Type: Wet type, Keyless | |
| | | | | Diameter: 5800 mm | |
| | | | | Pitch: 4002 mm | |
| | | | | No. of blades: 04 | |

Lampiran XIV



PARTICULARS OF M.T. GREEN STARS

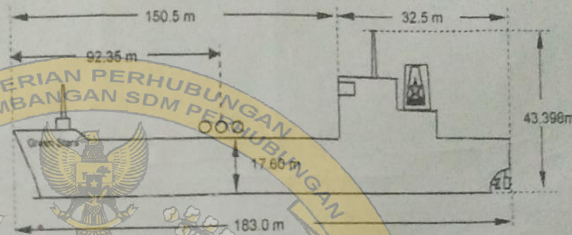
| | |
|-------------------|------------------|
| CALL SIGN | V7VZ5 |
| FLAG | MARSHALL ISLANDS |
| PORT OF REGISTRY | MAJURO |
| OFFICIAL NUMBER | 4247 |
| IMO/LLOYDS No. | 9217448 |
| CLASS. SOCIETY | LLOYD'S REGISTER |
| COMPANY ID NUMBER | 1631127 |

| | |
|-------------------------|--------------------------------|
| DATE KEEL LAID | 25.09.2000 |
| HULL NUMBER | S 1054 |
| DATE DELIVERED | 28.02.2001 |
| SHIPYARD NAME / COUNTRY | Daedong Ship yard, South Korea |
| SHIP'S P&I CLUB | Steam -Ship London |

| | |
|------------|-------------------------------|
| CONTACTS | |
| V SAT Voip | +1-561-5640120 |
| FBB | +670-773209436 +670 773208642 |
| TELEX | 453.836.381 453836382 |
| E-mail | asmaster.v7vz5@globeemail.com |
| MMSI | 538004247 |

| | |
|--------------------|---|
| CLASSIFICATION | +100A1 DOUBLE HULL OIL TANKER ESP, LI, IWS + LMC, UMC, IGS |
| OWNERS | INDICO STAR SHIPPING LTD, OMC CHAMBERS, PO BOX 3152, ROAD TOWN, TORTOLA, BRITISH VIRGIN ISLANDS |
| TECHNICAL OPERATOR | INTERNATIONAL ANDROMEDA SHIPPING, 7 RUE DU GABIAN, GILDO PASTER CENTRE, 98000 MC MONACO |

| PRINCIPAL PARTICULARS | Metres | Feet |
|--------------------------|--------|--------|
| LENGTH O.A | 183.00 | 600.4" |
| LENGTH (bp) | 175.17 | 574.7" |
| BREADTH (moulded) | 27.40 | 89.9" |
| DEPTH (moulded) | 17.60 | 57.7" |
| HEIGHT (maximum) | 43.40 | 142.4" |
| Bridge Front - Bow | 150.50 | 493.7" |
| Bridge Front - Aft | 32.50 | 106.6" |
| Bow - Manifold | 92.35 | 302.8" |
| Parallel Body at ballast | 104.60 | 343.2" |
| PBody at Summer DW | 110.20 | 361.5" |



| REGISTERED | SUEZ | PANAMA | Free Water Allowance | |
|--------------------------|-----------|-------------|----------------------|---------------------|
| NET TONNAGE | 8634.0 | 21381.18 | 19722.0 | FWA = 248 mm |
| GROSS TONNAGE | 23682.0 | 25136.88 | | Tons Per Centimeter |
| LIGHT SHIP (DSPL) | 3274.761 | | | TPC = 44.63 tonnes |
| SBT GROSS TONNAGE | 17772.0 | SBT DEDUCT. | 5470.0 | DISPLACEMENT |
| | FREEBOARD | DRAFT | DEADWEIGHT | 44313.700 |
| SUMMER | 6.674 | 11.077 | 36036.939 | 43288.696 |
| WINTER | 6.643 | 10.785 | 35013.935 | 45338.604 |
| TROPICAL | 6.385 | 11.246 | 37063.843 | 24640.800 |
| Normal Ballast Condition | 11.159 | 6.441 | 8416.100 | |

| CARGO TANKS | | |
|-------------------------|---------------|----------|
| Tank | PORT 98% | STBD 98% |
| COT 1 | 2643.764 | 2646.936 |
| COT 2 | 3635.405 | 3642.211 |
| COT 3 | 3675.029 | 3684.543 |
| COT 4 | 3674.850 | 3684.401 |
| COT 5 | 3672.441 | 3681.976 |
| COT 6 | 3323.562 | 3332.482 |
| SLOP | 512.546 | 515.539 |
| TOTAL | 42325.708 cum | |
| Residual Tank 100% cap. | 63.8 c.m | |

| MACHINERY / SPEED / PROPELLER / RUDDER / BOW THRUSTER | |
|---|---|
| MAINENGINE | WARTSILA SULZER 6 RTA 461 |
| M.C.R | 11100 BHP |
| N.C.R (85% MCR) | 9435 BHP x 120.3 RPM |
| SPEED | 13.5 (Ballast) & 13.0 (Loaded) |
| PROPELLER | 4 Blade fixed Right Handed |
| Prop. Immersion Draft | 5.91 mtrs |
| RUDDER | Streamline Semi-spade |
| Generators | 3 x 600kW x 720 RPM: 750 KVA x AC 450V x 60Hz |
| FW Generator Capacity | 20 m³/Day |
| BOW THRUSTER POWER | NO BOW THRUSTER |
| Particulars of Bow Thrust. | NA |
| Minimum Operational Draft | NA |

| BUNKER TKS 100% (M³) | |
|----------------------|---------------|
| HFO (1&2) P | 310.7 x 317.9 |
| HFO (1&2) S | 310.7 x 215.4 |
| HFO SERV. (SM) | 40.9 |
| HFO SETT. (S) | 40.9 |
| TOTAL HFO | 1240.5 |
| MDO STOR. (DB/C) | 151.0 |
| MGO STOR. (P) | 21.3 |
| MDO SERV. 1&2 (S) | 13.5 / 13.3 |
| MDO SETT. (S) | 5.9 |
| TOTAL DO | 206.0 |

| BALLAST TANKS | | |
|------------------------------|-------------|-----------|
| TANK | PORT 100% | STBD 100% |
| WBT 1 | 1719.8 | 1449.9 |
| WBT 2 | 1540.8 | 1277.8 |
| WBT 3 | 1029.7 | 1029.7 |
| WBT 3C 4C 5C | 1319.4 | |
| WBT 4 | 1075.2 | 1075.2 |
| WBT 5 | 1072.1 | 1072.1 |
| WBT 6 | 1846.8 | 1544.5 |
| FPK / APK | 1945.8 | 527.9 |
| TOTAL | 19526.7 cum | |
| Fresh Water Tanks total cap. | 339.4 cum | |

| DECK CRANES | | | |
|-------------------------------|--------------|-------|--------------|
| PROVISION / HOSE HANDLING SWL | 3 MT / 10 MT | | |
| BOW ANCHORS | PORT | STBD | REMARKS |
| NUMBER | 1 | 1 | |
| SHACKLES (1sh = 27.5 M) | 11 | 12 | SPARE ANCHOR |
| WEIGHT | 6.225 | 6.225 | 6.225 MT |

| WINDLASS / MOORING WINCHES / ROPES | | | |
|------------------------------------|-----------------------------------|-----|---|
| | AFT | FWD | PARTICULARS |
| WINCHES | 6 | 6 | speed 15 ton X 15 mtr / min |
| HAWSER DRUM | NA | NA | NA |
| WARPING HEAD | NA | NA | NA |
| Ropes on winch | 6 | 6 | polypropylene 220 x 54mm x 74.9T, 58mmx80.1T, polyester 220 x 60mm x 82.6T, 80mm x 80.1T, Euroflex 220 x54x74.67. |
| Spare Ropes | 5 | 2 | |
| BRAKE LOAD / TYPE | 85 Tonnes / SCREW BAND TYPE | | |
| WINDLASSES | 2 socket 24 ton x 15.28 mtr / min | | |

FRAMO PUMPS: Submerged centrifugal: 10x600m³/hr, 4x300m³/hr. Portable pump 70m³/hr for emergency operations; Ballast Pumps - 2x600m³/hr; T/C pump 1x111m³/hr.

| Life Saving Appl. | | | |
|-------------------|--------------|-------------|-----------------------------|
| | Lifeboat | Rescue Boat | Liferafts |
| Number x Capac. | 1 x 32 pers. | 1x 32 pers. | 4 x 16 pers. fwd 1x 6 pers. |