

## SHIP'S IDENTIFICATION

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| NAME OF SHIP                        | ER MADEN                                                                                |
| OWNER                               | BULKER SHIPPING AND TRADING S.A.                                                        |
| FLAG                                | MARSHALL                                                                                |
| CALL SIGN                           | V7A4314                                                                                 |
| PORT OF REGISTRY                    | MAJURO                                                                                  |
| REGISTER NO                         | 9100                                                                                    |
| IMO-NUMBER                          | 9611993                                                                                 |
| CLASSIFICATION SOCIETY              | CLASS NK                                                                                |
| CLASS NUMBER                        | 123577                                                                                  |
| CLASS NOTATIONS                     | CLASS NK* A9BC-A,CSR,BC-XII,SHC 2,4E,<br>GRAB (20) (ESP) MNS* (MO)(PSCM) IWS<br>6178841 |
| COMPANY IMO NUMBER                  |                                                                                         |
| TYPE OF SHIP                        | BULK CARRIER                                                                            |
| KEEL LAID                           | 04.11.2011 DELIVERY 26.9.2017                                                           |
| PLACE OF BUILDING                   | COSCO (GUANGZHOU) SHIPYARD -CHINA                                                       |
| HULL NUMBER                         | N341                                                                                    |
| LOA                                 | 189,99                                                                                  |
| LBP                                 | 185,00                                                                                  |
| BREADTH MOULDED.                    | 32.26 M.                                                                                |
| DEPTH MOULDED                       | 18.0 M.                                                                                 |
| HEIGHT FROM KEEL TO HIGHEST ANTENNA | 47.75M                                                                                  |
| LIGHT SHIP                          | 11,159MT                                                                                |
| FWA FRESH WATER ALLOWANCE           | 288MM.                                                                                  |
| GROSS TONNAGE                       | 32,983                                                                                  |
| NET TONNAGE                         | 19,191                                                                                  |
| PANAMA CANAL NET                    | 27,339                                                                                  |
| SUEZ CANAL GROSS                    | 33,934.90                                                                               |
| SUEZ CANAL NET                      | 30,992.70                                                                               |
| MAIN ENGINE                         | STX MAN-B&W 6s50 MC-C8.2                                                                |
| NOMINAL MAX.CONTINUOUS RATING       | 9960 KW AT 127 R/MIN                                                                    |
| SPECIFIED MAX.CONTINUOUS RATING     | 8500 KW AT 115 R/MIN                                                                    |
| CONTINUOUS SERVICE RATING (CSR)     | 6422.954 KW AT 108.9 R/MIN                                                              |
| SERVICE SPEED& CONSUMPTION          |                                                                                         |
| SERVICE SPEED & CONSUMPTION         |                                                                                         |
| AUXILLARY ENGINE                    | 3X 650 KW x 720 RPM                                                                     |
| ELECTRICITY                         | 440 / 220V – 60 Hz                                                                      |
| NUMBER OF HOLDS & HATCHES           | 5 / 5                                                                                   |
| HATCH COVER TYPE                    | FORE & AFT FOLDING TYPE DOUBLE SKIN HYDRAULIC<br>OPERATED STEEL HATCH COVER             |
| PROPELLER - MATERIAL                | 4 BLADED FIXED –RIGHT HANDED –KAIBC3 CU3                                                |
| PROPELLER DIAMETER                  | 6.007 M.                                                                                |
| PROPELLER PITCH 0.7 R               | 4.5226 M                                                                                |
| MASS                                | 15030 KG.                                                                               |
| ANCHOR & MATERIAL                   | 8930 KG. KSC 42, SPEK TYPE ANCHORE                                                      |
| ANCHOR CHAIN                        | GRADE III NOMINAL DIA 73 MM.-STABOARD 12 – PORT 11 SHACKLES                             |

|                                                         |                                                      |
|---------------------------------------------------------|------------------------------------------------------|
| IFO CAPACITY (INC. SERVICE & SETTling) 100 % FULL       | 2,210.21 M <sup>3</sup>                              |
| IFO CAPACITY (INC. SERVICE & SETTling) 80 % FULL        | 1,768.168 M <sup>3</sup>                             |
| DO CAPACITY (INC. SERVICE & SETTling) 100 % FULL        | 193.65 M <sup>3</sup>                                |
| DO CAPACITY (INC. SERVICE & SETTling) 80 % FULL         | 154.92 M <sup>3</sup>                                |
| LO CAPACITY 100 % FULL                                  | 123,38 M <sup>3</sup>                                |
| LO CAPACITY 80 % FULL                                   | 98.704 M <sup>3</sup>                                |
| FW CAPACITY (INCLUDING DISTILLED TK)                    | 465.41 MT.                                           |
| FRESH WATER GENERATOR DAILY CAPACITY                    | 25 TONS                                              |
| PORT SIDE FW.WASHING TANK                               | 372.49 CUB.M                                         |
| STARBOARD SIDE SLOP HOLDING TANK                        | 372.49 CUB.M                                         |
| SEWAGE TANK                                             | 27.72 CUB.M                                          |
| LIGHT BALLAST CAPACITY AND BALLASTING&DEBALLASTING TIME | 16,333.39 MT. 16 HOURS                               |
| LIGHT BALLAST CAPACITY AND DRAFTS & EXCHANGE TIME       | 16,333.39 MT. ON FWD : 5.43M. AFT:6.128M :28.7 HOURS |
| HEAVY BALLAST CAPACITY AND BALLASTING&DEBALLASTING TIME | 31,658 MT.24 HOURS                                   |
| HEAVY BALLAST CAPACITY AND DRAFTS & EXCHANGE TIME       | 31,658 MT. ON FWD: 8.19M. AFT:9.25 M : 50.2 HOURS    |
| <b>LIGHT BALLAST DE-BALLASTING TIME 11 HRS</b>          | <b>HEAVY BALLAST DE-BALLASTING TIME: 21 HRS</b>      |
| <b>BALLAST PUMP CAP. 800 M3 / HRS X 2</b>               |                                                      |

|                                  |                     |
|----------------------------------|---------------------|
| MMSI NUMBER                      | 538009100           |
| ACCOUNT AUTHORITY                | TR01                |
| INMARSAT – C (LRIT) 15 3582 7331 | 453849557           |
| INMARSAT – C (SSAS) 15 3582 7332 | 453849558           |
| Inm-FBB TELEPHONE                | +870 773 178 978    |
| Inm-FBB FAX                      | +870 783 173 380    |
| E-MAIL                           | ermaden@gtships.com |
| GSM                              | +90 533 6204127     |

| Hook Use<br>Hoist.Load                                                                                                  | Grab Use<br>Hoist.Load | Max/ Min<br>Slwg.Radius | Max.<br>Lift | Hoisting Speed t x<br>m/min | Lowering<br>Speed               | Luffing<br>Time | Slewing<br>Speed | Electric<br>Source            | Elc.Motor<br>For Pump Unit     |
|-------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|--------------|-----------------------------|---------------------------------|-----------------|------------------|-------------------------------|--------------------------------|
| 30 mt.                                                                                                                  | 24 mt.                 | 28 / 3.4 m.             | 35<br>m,     | 30 x 20 Hook use            | Abt.60 m/min<br>(at rated load) | 71 sec.         | 0.4 rpm.         | AC 440V<br>60 Hz.<br>3 Phases | 125 kW cont.<br>(285kW 15% ED) |
|                                                                                                                         |                        |                         |              | 24 x 20 Grab Use            |                                 |                 |                  |                               |                                |
|                                                                                                                         |                        |                         |              | 18 x abt.30                 |                                 |                 |                  |                               |                                |
|                                                                                                                         |                        |                         |              | 6 x abt.60                  |                                 |                 |                  |                               |                                |
| 12 Cub.M Max.capacity ( 3 lines of kick plates) ,8700 kg.deadweight Radi remote operated hydraulic operated 4 pcs. Grab |                        |                         |              |                             |                                 |                 |                  |                               |                                |

| 12 cbm Radio Remote Control Grab |                       |               |                         |                  |                                     |
|----------------------------------|-----------------------|---------------|-------------------------|------------------|-------------------------------------|
| Crane Capacity<br>(in grab opr.) | Dead Weight<br>(Grab) | Allowed Cargo | Kick Plates             | Capacity of grab | Density of cargo<br>(up to ... cbm) |
| 24 tons                          | 8,7 tons              | 15,3 tons     | All closed              | 12 cbm           | 1,28 tons / cbm                     |
| 24 tons                          | 8,7 tons              | 15,3 tons     | 1. cover open           | 10 cbm           | 1,53 tons / cbm                     |
| 24 tons                          | 8,7 tons              | 15,3 tons     | 1. – 2. cover open      | 8 cbm            | 1,91 tons / cbm                     |
| 24 tons                          | 8,7 tons              | 15,3 tons     | 1. – 2. - 3. cover open | 6 cbm            | 2,55 tons / cbm                     |

| Hold No        | Frame Nos. | Grain Cap. (m³) %100 | Bale Cap.(m³) | Grain Cap. ft.³    | Bale Cap. ft.³ | Hold Dims. LxBxD (m.) | Hatch Dims. LxBxD (m.) |
|----------------|------------|----------------------|---------------|--------------------|----------------|-----------------------|------------------------|
| 1              | 183-217    | 13,009.86            | 12300         | 459439.3           | 434,370.81     | 27.88x32.26x16.76     | 18.86x18.26x0.90       |
| 2              | 145-183    | 15,333.25            | 14700         | 541489.1           | 519,126.09     | 31.16x32.26x16.72     | 21.32x18.26x0.90       |
| 3              | 109-145    | 14,553.08            | 14000         | 513938.7           | 494,405.8      | 29.52x32.26x16.72     | 21.32x18.26x0.90       |
| 4              | 71-109     | 15,333.27            | 14700         | 541489.8           | 519,126.09     | 31.16x32.26x16.72     | 21.32x18.26x0.90       |
| 5              | 35-71      | 13,404.64            | 12500         | 473380.8           | 441,433.75     | 29.52x32.26x16.72     | 21.32x18.26x0.90       |
| TOTAL CAPACITY |            | <b>71,634.09</b>     | 68200         | <b>2,529,737.7</b> | 2,408,462      |                       |                        |

|                                                 |    |        |         |         |         |         |
|-------------------------------------------------|----|--------|---------|---------|---------|---------|
| Cargo hold                                      |    | 1      | 2       | 3       | 4       | 5       |
| Maximum cargo mass in homogeneous loading, in t | Mh | 9836 t | 11592 t | 11002 t | 11592 t | 10134 t |

|                                                 |     |         |   |         |   |         |
|-------------------------------------------------|-----|---------|---|---------|---|---------|
| Cargo hold                                      |     | 1       | 2 | 3       | 4 | 5       |
| Maximum cargo mass in alternative loading, in t | Mhd | 17630 t | 0 | 19721 t | 0 | 18165 t |

| Location                                | Hold # 1            | Hold # 2    | Hold # 3     | Hold # 4    | Hold # 5             |
|-----------------------------------------|---------------------|-------------|--------------|-------------|----------------------|
| Flat area of Hold bottom about (m²)     | 535.11              | 683.75      | 644.68       | 683.75      | 481.28               |
| Flat bottom dims.LxB or (B fore ,B aft) | 27.88x(10.71/23.82) | 28.7x23.824 | 27.06x23.824 | 28.7x23.824 | 29.52x(23.824/9,064) |

| Design Load Location        | Hold # 1 | Hold # 2 | Hold # 3 | Hold # 4 | Hold # 5 |
|-----------------------------|----------|----------|----------|----------|----------|
| Max.Permissible Load (t/m²) | 25       | 20       | 25       | 20       | 25       |

| Design Load Location        | Main Deck | Hatch Covers |
|-----------------------------|-----------|--------------|
| Max.Permissible Load (t/m²) | 1         | 2.3          |

|                | Freeboard ( mm.) | Draft (m.) | Displacement | Deadweight | TPC   | TPI     |
|----------------|------------------|------------|--------------|------------|-------|---------|
| Summer         | 5224.            | 12,80      | 67,681.1     | 56,522.1   | 58.8  | 149.352 |
| Fresh          | 4936.            | 13,088     | 67,681.1     | 56,522.1   | 58.9  | 149.606 |
| Tropical       | 4957.            | 13,067     | 69,254.4     | 58,095.4   | 58.9  | 149.606 |
| Tropical fresh | 4669             | 13,355     | 69,254.4     | 58,095.4   | 59.05 | 149.987 |
| Winter         | 5491             | 12,533     | 66,110.4     | 54,951.4   | 58.7  | 149.098 |

|                                                                                         |                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| From No.1 hold forward to foremost vessel                                               | 16.40 m.                                                                                                 |
| From No.5 aft to aftmost vessel                                                         | 33.0 m.                                                                                                  |
| From No.1 forward to Aft of No.5 hold                                                   | 140.59                                                                                                   |
| From Main deck to top of closed Hatch Cover                                             | At No.1 center 3.40 m./ at No.2-5 centers 3.20 m.                                                        |
| From Main deck to top of open Hatch Cover                                               | At No.1 center 2.80 m./ at No.2-5 centers 2.60 m.                                                        |
| From Keel to Maindeck                                                                   | 18.00 m. (Except foremost maindeck 18.20 m)                                                              |
| From Hatchcoaming to hand rails                                                         | No.1 Forward side 5.6m. from no.1 mid to No.5 aft 6.40 m.                                                |
| Clear distance from deck piping to hand rails P&Stb'd                                   | 5 m. (except off pilot boarding area and catwalks,air flow of WBT, boiler,life line structure)           |
| Distance between the holds off cross deck area                                          | F'Castle to No.1 hatch 5m.//Between no.1-2 = 8.9m./ between 2-3, 3-4,4-5 =9m.//No.5-Accommodation 4.15m. |
| Air draft up to hatch coaming on fully loaded condition (drafts fwd:12,32m. aft:13.24m) | At fwd:8.20m. at mid ship: 7.50m. at aft: 7.56 m.                                                        |

|                                                                                                                        |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Air draft up to hatch coaming on <b>light ballast</b> and 50% bunker condition <b>(drafts fwd:6.00m. aft :7.01 m.)</b> | At fwd:15.20m.      at mid ship: 14.35m.      at aft:13.61m.                                            |
| Air draft up to hatch coaming on <b>heavy ballast</b> and 50% bunker condition <b>(drafts fwd: 8.20    aft:9.20m.)</b> | At fwd:12.06m      at mid ship:11.58m.      at aft:11.30m.                                              |
| Water line to highest point in light ballast condition :                                                               | 41.64m                                                                                                  |
| Water line to highest point in full ballast condition:                                                                 | 38.70m.                                                                                                 |
| Water line to highest point in fully laden condition:                                                                  | 34.56m                                                                                                  |
| Tanktop to underside closed hatch covers                                                                               | 18.50m.                                                                                                 |
| Tank top to underside weather deck                                                                                     | 16.70                                                                                                   |
| Top of hopper tank to bottom of wing tank at no3.hold                                                                  | Min.at No1: 6m. Max.at No.1: 7.4m.<br>No.2-4:7.4m.<br>Min.at No5 aft.:1.8 Max.at No.5:7.4m.             |
| Hopper Tanks height from tanktop                                                                                       | Min.at No1: 4.20. Max.at No.1: 6.40m.<br>No.2-4: 4.20m..<br>Min.at No5 aft.: 4.20m. Max.at No.5: 9.70m. |
| Space between frames                                                                                                   | 80 cm                                                                                                   |