

## REPORT ON WATER TUBE BOILERS.

No. FE-1321

pt. 5c.

Date of writing Report 3. 12. 1964 When handed in at Local Office 19 Received at London Office 22 MAR 1965  
 No. in Survey held at Sasebo Port of Nagasaki  
 Date, First Survey 19.10.64 Last Survey 19.11.64  
 on the "MOBIL PROGRESS" (now named "AUSTRALIAN PROGRESS") (Number of Visits 8) Gross 10186 Tons  
 Built at Hamburg By whom built W. Schlieker  
 Engines made at San Francisco By whom made Joshua Hendy Iron W. Yard No. 525 When built 1960  
 Boilers made at Hamburg By whom made Ottensener Eisenwerk Engine No. 10579 When made 1946  
 for Register Book 1415 M<sup>2</sup> (15239.66 sq.ft.) Owners Associated Steamship Co., Ltd. Boiler No. 6041 & 6042 When made 1959  
 Port belonging to Melbourne

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—** Manufacturers of Steel Unknown  
 Tapered Axially  
 Date of Approval of plan  
 Boilers 2—Foster Wheeler Designed Working Pressure 565 lb/in<sup>2</sup> Tested by Hydraulic Pressure to No. and Description or Type  
 of Certificate Can each boiler be worked separately Yes Total Heating Surface of Boilers 463 M<sup>2</sup> x 2 Date of Test  
 Half Economisers 180 M<sup>2</sup> x 2 Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler Superheaters 64.5 M<sup>2</sup> x 2  
 hardened, standard type of burners (oil) in each boiler 3—Todd Oil Burners Co., Ltd.  
 Each boiler Drum: 2-40 mm Full Lift Single Type Area of each set of valves per boiler No. and description of safety valves on  
 adjusted 565 lbs/in<sup>2</sup> Are they fitted with easing gear Yes per rule 1785 mm<sup>2</sup> as fitted 1255 x 2 mm<sup>2</sup> Pressure to which they  
 donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork In case of donkey boilers state whether steam from main boilers can enter  
 width and length 4575 x 3945 mm Steam Drums: Number in each boiler 1 Height of boiler 9,000 mm  
 thickness of plates 28 mm & 70 mm in way tube plate Range of tensile strength Inside diameter 1253 mm  
 flanged welded If fusion welded, state name of welding firm unknown Are drum shell plates welded  
 Class I vessels been complied with Description of riveting:—Circ. seams Have all the requirements of the Rules  
 diameter of rivet holes in long. seams Pitch of rivets Thickness of straps long. seams  
 g. joint:—Plate Rivet Diameter of tube holes in drum 32.5 & 51.5 mm Pitch of tube holes 50 mm  
 percentage strength of shell in way of tubes 35.4 % Range of tensile strength unknown  
 thickness of plates 48 mm Radius or how stayed 1230 & 230 mm Dished Size of manhole 425 x 320 mm Water Drums:—Number  
 each boiler 1 Inside diameter 790 mm Thickness of plates 45 mm Range of tensile strength Are drum shell plates  
 welded or flanged If fusion welded, state name of welding firm unknown Have all the requirements of the Rules  
 Class I vessels been complied with Description of riveting:—Circ. seams long. seams  
 diameter of rivet holes in long. seams Pitch of rivets Thickness of straps  
 percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 32.5 & 51.5 mm Pitch of tube holes 50 mm  
 percentage strength of drum shell in way of tubes 35.4 % Range of tensile strength unknown  
 thickness of plates 45 mm Radius or how stayed 770 & 145 mm Dished Size of manhole 51 mm  
 diameter of rivet holes in long. seams Thickness 3.0 & 4.0 mm Number 1055 & 150 Tested by hydraulic pressure to  
 inside diameter Thickness of shell plates Steam Dome or Collector:—Description of  
 Description of longitudinal joint Range of tensile  
 Have all the requirements for the Rules for Class I vessels been complied with If fusion welded, state name of welding  
 Thickness of straps Percentage strength of long. joint plate rivet  
 PERHEATER:—Number in each boiler 4 Inside diameter 157.5 x 157.5 mm square  
 thickness 30 mm Material Range of tensile strength Are drum shell plates welded  
 flanged welded If fusion welded, state name of welding firm unknown Have all the requirements of the Rules  
 Class I vessels been complied with Description of riveting:—Circ. seams long. seams  
 diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of  
 joint:—Plate Rivet Diameter of tube holes in drum 32.5 & 51.5 mm Pitch of tube holes 50 mm  
 shell in way of tubes Header Flat Thickness 30 mm Range of tensile strength  
 us or how stayed Flat Size of manhole or handhole 51 mm Number, diameter, and thickness of tubes 125 - 32 mm x 3.0 mm  
 tested by hydraulic pressure to Date of test Is a safety valve fitted to each section of the superheater which  
 be shut off from the boiler Yes No. and description of safety valves 1-40 mm High Lift Single Type Area of each set  
 valves 1255 mm<sup>2</sup> Pressure to which they are adjusted 484 lbs/in<sup>2</sup> Is easing gear fitted Yes  
 Gear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith No

Total No. of visits 8

boiler a duplicate of a previous case

If so, state vessel's name and report No.

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. The boilers installed on board this ship have been  
 out and examined in their entirety in accordance with the requirements of Chapter C, Section 11, of the Rules &  
 ations. The Boilers have been examined under steam and all safety valves were adjusted as mentioned in this  
 t and all found satisfactory. It is therefore recommended that the boilers are eligible to be classed with  
 ion of MBS 12-64 in Supplement of the Register Book.

Survey Fee ... £ : When applied for 19  
 Travelling Expenses (if any) £ : When received 19

FRIDAY -2 APR 1965

Date

Attorney's See Rpt. 1

Engineer Surveyor to Lloyd's Register of Shipping  
 Y. Kojima & W.A. Cook

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