

REPORT ON WATER TUBE BOILERS.

No. FE-1321

Date of writing Report 3. 12. 1964 When handed in at Local Office 19 Received at London Office 22 MAR 1964
 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
 Built at Hamburg By whom built W. Schlieker Tons } Net -
 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
 Area for Register Book 1415 M² (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

Boilers 2-Foster Wheeler Designed Working Pressure 565 lb/in² Tested by Hydraulic Pressure to - No. and Description or Type -
 Date of Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 463 M² x 2 Date of Test -
 If Economisers 180 M² x 2 Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler - Superheaters 64.5 M² x 2
 and 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 { per rule 1785 mm² No. and description of safety valves on
 as fitted 1255 x 2 mm² Pressure to which they
 are adjusted 565 lbs/in² Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 9,000 mm
 Width and length 4575 x 3945 mm Steam Drums:—Number in each boiler 1 Inside diameter 1253 mm
 Thickness of plates 28 mm & 70mm in way tube plate Range of tensile strength -

flanged welded If fusion welded, state name of welding firm unknown Are drum shell plates welded
 Class I vessels been complied with - Have all the requirements of the Rules
 Diameter of rivet holes in long. seams - Description of riveting:—Circ. seams - long. seams -
 long. joint:—Plate - Pitch of rivets - Thickness of straps -

Percentage strength of shell in way of tubes 35.4 % Diameter of tube holes in drum 32.5 & 51.5 mm Pitch of tube holes 50 mm
 Thickness of plates 48 mm Radius or how stayed 1230 & 230 mm dished Steam Drum Heads or Ends:—Range of tensile strength unknown
 each boiler 1 Inside diameter 790 mm Thickness of plates 45 mm Range of tensile strength - Water Drums:—Number
 welded or flanged welded If fusion welded, state name of welding firm unknown Are drum shell plates

Class I vessels been complied with - Have all the requirements of the Rules
 Diameter of rivet holes in long. seams - Description of riveting:—Circ. seams - long. seams -
 long. joint:—Plate - Pitch of rivets - Thickness of straps -

Percentage strength of drum shell in way of tubes 35.4 % Diameter of tube holes in drum 32.5 & 51.5 mm Pitch of tube holes 50 mm
 Thickness of plates 45mm Water Drum Heads or Ends:—Range of tensile strength unknown
 Radius or how stayed 770 & 145 mm Dished Size of ~~manhole~~ handhole 51 mm 425 x 320

Thickness 3.0 & 4.0 mm Thickness 28 mm Tested by hydraulic pressure to -
 Diameter 32 & 51 mm Number 1055 & 150 Steam Dome or Collector:—Description of
 Inside diameter - Thickness of shell plates - Range of tensile
 Description of longitudinal joint - If fusion welded, state name of welding

Have all the requirements for the Rules for Class I vessels been complied with - Diameter of rivet holes -
 Thickness of straps - Percentage strength of long. joint - plate - rivet -
 Range of tensile strength - Thickness - Radius or how stayed -

PERHEATER, Drums or Headers:—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
 welded If fusion welded, state name of welding firm unknown Have all the requirements of the Rules

Class I vessels been complied with - Have all the requirements of the Rules
 Diameter of rivet holes in long. seams - Description of riveting:—Circ. seams - long. seams -
 long. joint:—Plate - Rivet - Diameter of tube holes in drum - Thickness of straps - Percentage strength of
 shell in way of tubes Header Drum Heads or Ends:—Flat Pitch of tube holes - Percentage strength of
 us or how stayed Flat Thickness 30 mm Range of tensile strength -

Size of ~~manhole~~ handhole 51 mm Number, diameter, and thickness of tubes 125 - 32 mm x 3.0mm
 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 mm² Pressure to which they are adjusted 484 lbs/in² Is easing gear fitted Yes

Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

During progress of work in shops - Manufacturer -
 Is the approved plan of boiler forwarded herewith No
 Date of examination on board vessel 1964 Oct. 19, 26, 27, 29; Nov. 6, 9, 11, 19 Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. The boilers installed on board this ship have been
 examined and examined in their entirety in accordance with the requirements of Chapter C, Section 11, of the Rules &
 all found satisfactory. It is therefore recommended that the boilers are eligible to be classed with
 MBS 12-64 in Supplement of the Register Book.

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

Date FRIDAY -2 APR 1965
 Engineer Surveyor to Lloyd's Register of Shipping
Y. Kojima & W.A. Cook

Attorney's Note See Rpt. 1
 012096-012101-0277

