

# REPORT ON WATER TUBE BOILERS.

No. 3177

Received at London Office

11 JAN 1956

Reporting Officer: 19 When handed in at Local Office: DEC 30 1955 Port of: KOBE  
 Survey held at: Tamano, Japan Date, First Survey: 19th April, Last Survey: 9th September, 55.  
 on the Steel Single Screw Motor Ship "MEIKEI MARU" (Number of Visits: 19) Gross: 7613.59  
 Tamano, Japan By whom built: Mitsui Shipbuilding & Eng., Ltd. Yard No. 599 Tons: 4285.30  
 Made at: Tamano, Japan By whom made: Mitsui S.B. & E. Co., Ltd. Engine No. 562 When built: Sept. 1955  
 Made at: Tamano, Japan By whom made: Mitsui S.B. & E. Co., Ltd. Boiler No. 386 When made: Sept. 1955  
 Register Book: Owners: Meiji Kaiun K.K. Port belonging to: Kobe.

TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel: The Japan Steel Works Ltd., Muroran Wks.  
 Approval of plan: 23rd February, 1955 Tubes: The Yawata Iron & Steel Co. Ltd.  
 1 Double evaporation Water tube Working Pressure: primary (max) 50kg/cm<sup>2</sup> Amagasaki. No. and Description or Type: Steel Tube Wks.  
 boiler secondary 10kg/cm<sup>2</sup> Tested by Hydraulic Pressure to: 18.5kg/cm<sup>2</sup> Date of Test: 15-7-55  
 Certificate: Can each boiler be worked separately: - Total Heating Surface of Boilers: pry. 110M<sup>2</sup> sec. 29M<sup>2</sup> Superheaters: -  
 Economisers: Is forced draught fitted: Yes Area of Fire Grate (coal) in each Boiler: -

Type of burners (oil) in each boiler: 1 pressure jet oil burner No. and description of safety valves on:  
 primary: 1 set double spring loaded high lift type As approved  
 secondary: 1 set double spring loaded ordinary type. Area of each set of valves per boiler: pry. 2513.3mm<sup>2</sup> Pressure to which they:  
 pry. 50.8kg/cm<sup>2</sup> sec. 12723.5mm<sup>2</sup>  
 Are they fitted with easing gear: Yes In case of donkey boilers state whether steam from main boilers can enter:  
 boiler: - Smallest distance between boilers or uptakes and bunkers or woodwork: - Height of boiler: 6.750mm

Length of plates: 2570 x 3937mm Steam Drums: Number in each boiler: 1 Inside diameter: pry. 626mm  
 Range of tensile strength: pry. 46.5kg/mm<sup>2</sup> sec. 33.3kg/mm<sup>2</sup> sec. 1476mm  
 welded If fusion welded, state name of welding firm: Kawasaki Dockyard Co., Ltd., Kobe Are drum shell plates welded:  
 vessels been complied with: Yes Description of riveting: Circ. seams: - long. seams: -  
 of rivet holes in long. seams: - Pitch of rivets: - Thickness of straps: - Percentage strength of:  
 Plate: - Rivet: - Diameter of tube holes in drum: - Pitch of tube holes: -

Strength of shell in way of tubes: - Steam Drum Heads or Ends: Range of tensile strength: pry. 46.5kg/mm<sup>2</sup> sec. 45.8kg/mm<sup>2</sup>  
 pry. 37mm Radius or how stayed: pry. 550mm Size of manhole or handhole: 305 x 405mm Water Drums: Number:  
 sec. 19mm Inside diameter: 538mm Thickness of plates: 31mm Range of tensile strength: 46.0kg/mm<sup>2</sup> Are drum shell plates:  
 welded If fusion welded, state name of welding firm: Kawasaki Dockyard Co., Ltd., Kobe Have all the requirements of the Rules:  
 vessels been complied with: Yes Description of riveting: Circ. seams: - long. seams: -

Rivet holes in long. seams: - Pitch of rivets: - Thickness of straps: - 38mm & 77.2mm  
 strength of long. joint: Plate: - Rivet: - Diameter of tube holes in drum: 38.7 & 77.2mm Pitch of tube holes: 262 & 156x120mm  
 strength of drum shell in way of tubes: - Water Drum Heads or Ends: Range of tensile strength: 46.0kg/mm<sup>2</sup> & 45.5kg/mm<sup>2</sup>  
 plates: 31 & 100mm Radius or how stayed: 500mm Size of manhole or handhole: 305 x 405mm

Sections: Number: 1 set per boiler Material: Cast Steel Thickness: 42x30x42mm Tested by hydraulic pressure to: 80kg/cm<sup>2</sup>  
 diameter: 38 & 76.2mm Thickness: 45 & 6mm Number: 258 x 23 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: -  
 and Plates: Range of tensile strength: - Thickness: - Radius or how stayed: -  
 WATER Drums or Headers: Number in each boiler: - Inside diameter: -  
 Material: - Range of tensile strength: - Are drum shell plates welded:  
 If fusion welded, state name of welding firm: - Have all the requirements of the Rules:  
 vessels been complied with: - Description of riveting: Circ. seams: - long. seams: -

Rivet holes in long. seams: - Pitch of rivets: - Thickness of straps: - Percentage strength of:  
 Plate: - Rivet: - Diameter of tube holes in drum: - Pitch of tube holes: - Percentage strength of:  
 way of tubes: - Drum Heads or Ends: - Thickness: - Range of tensile strength: -  
 stayed: - Size of manhole or handhole: - Number, diameter, and thickness of tubes: -

Hydraulic pressure to: - Date of test: - Is a safety valve fitted to each section of the superheater which:  
 from the boiler: - No. and description of safety valves: - Area of each set:  
 Pressure to which they are adjusted: - Is easing gear fitted: -  
 Has the spare gear required by the Rules been supplied: Yes

MITSUI SHIPBUILDING & ENGINEERING CO., LTD., TAMANO WORKS.  
 The foregoing is a correct description.  
 Signature: [Signature] Manufacturer.  
 Signature: [Signature] Senior Managing Director.  
 ing progress of: 1955: Apr. 19, 26 May 17, 24, 27 June 7, 13, 22, 25, Is the approved plan of boiler forwarded herewith: No  
 work in shops: July 5, 8, 12, 15, 23, 29 Aug. 2 Approved date:  
 ing erection on: 1955: Aug. 27, 30, Sept. 9 Total No. of visits: 19  
 and vessel: -

Duplicate of a previous case: No If so, state vessel's name and report No.: -  
 REMARKS (State quality of workmanship, opinions as to class, &c.) The Auxiliary boiler of this vessel,  
 constructed under Special Survey in accordance with the Rules, approved plans, and Secretary's  
 The material and workmanship are sound and good. The auxiliary boiler has been examined  
 and the safety valves adjusted to 10kg/cm<sup>2</sup> (Secondary drum) and 50.8kg/cm<sup>2</sup> (primary drum)  
 satisfactory.

When applied for: DEC 30 1955  
 Expenses (if any) £ 466.000: } When received: 19  
 FRIDAY 10 FEB 1956  
 Signature: [Signature] Engineer Surveyor to Lloyd's Register of Shipping.

See Rpt. 4 C.  
 005029-005037-0025  
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