

REPORT ON WATER TUBE BOILERS.

30 NOV 1953

No. 1697

Received at London Office

Writing Report 19 When handed in at Local Office 17. NOV. 1953 Port of Kobe
 Survey held at Aioi, Japan Date, First Survey 16-2-53 Last Survey 26-8-19 53.
 on the Steel Single Screw S.T "DAIKYO - MARU" (Number of Visits 20) Gross 13,721.20 Tons
 Aioi, Japan By whom built Harima Shipbuilding & Engineering Co. Ltd. No. 479 When built Aug. 1953
 made at Tokyo, Japan By whom made Ishikawajima Heavy Ind. Co., Ltd. No. IT2198 When made Aug. 1953
 made at Aioi, Japan By whom made Harima Shipbuilding & Engineering Co. Ltd. No. 765 When made Aug. 1953
 Horse Power Owners Daikyo Oil Co., Ltd. Port belonging to Yokkaichi

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Plate: Muroran & Yawata Tube: Sumitomo

Approval of plan No. and Description or Type
 2 x 3 Drum water Tube Boiler Working Pressure 33kg/cm² Tested by Hydraulic Pressure to 53kg/cm² Date of Test 15, 27 May, '53
 Certificate B488, B489 Can each boiler be worked separately Yes Total Heating Surface of Boilers 439.0 M²
 draught fitted Yes Area of Fire Grate (coal) in each Boiler 4 x 450 kg/H Harima Dahl. No. and description of safety valves on
 type of burners (oil) in each boiler 2 x 70 mm High Lift Type Area of each set of valves per boiler 8.69 sq. in 83
 33.9kg/cm² Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler 5,384 mm x 4,973 mm Smallest distance between boilers 950 mm Height of boiler 5,694 mm
 and length 5,384 mm x 4,973 mm Steam Drums: Number in each boiler 1 Inside diameter 1100 mm
 Shell: 30 mm, Tube: 60 mm Range of tensile strength 47.7-49.7 kg/mm²; 52.7-53.3 kg/mm² Are drum shell plates welded
 Welded If fusion welded, state name of welding firm Harima Shipbuilding & Engineering Co., Ltd.
 Class I vessels been complied with Yes Description of riveting:—Circ. seams long. seams
 Pitch of rivets Thickness of straps 38.6; 51.4 mm Percentage strength of
 joint:—Plate Rivet 43.25; 42.9 Diameter of tube holes in drum 68 mm; 90 mm
 Range of tensile strength 42.7-45.9 kg/mm²; 45.1-46.3 kg/mm²
 Water Drum Heads or Ends: Range of tensile strength 42.7-45.9 kg/mm²; 45.1-46.3 kg/mm²
 Water Drums: Number 2 Inside diameter 600, 900 mm Thickness of plates 20 mm
 Material Forged Steel Tested by hydraulic pressure to 53kg/cm²
 Thickness 5 mm Number 20 Steam Dome or Collector:—Description of
 Range of tensile strength 30.2-30.9 T/sq. in Are drum shell plates welded
 Have all the requirements of the Rules
 Description of longitudinal joint If fusion welded, state name of welding
 Diameter of rivet holes plate rivet
 Thickness of straps Percentage strength of long. joint
 Drum Heads or Ends: Cr-Mo steel Thickness 22, 23 mm Range of tensile strength 30.2-30.9 T/sq. in
 Number, diameter, and thickness of tubes 44 x 32 mm x 3.2 mm
 Is a safety valve fitted to each section of the superheater which
 1 x 60 mm High Lift Type Area of each set
 4.38 sq. in Pressure to which they are adjusted 30.8kg/cm² Is easing gear fitted Yes
 Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

During progress of work in shops 1953. 16 March 2, 14, 18, 30 April 1, 10, 22, 25 May 6, 15, 22, 27
 During erection on board vessel 1953. 13 June 20 July 21 Aug 4, 19, 22, 26
 Total No. of visits 20

Is boiler a duplicate of a previous case No If so, state vessel's name and report No.
 GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The main boilers of this vessel have been
 instructed under Special Survey in accordance with the Rules, Approved Plans and Secretary's letters.
 The workmanship and materials are found sound and good. The main boilers have been examined
 under steam. The safety valves adjusted as stated above and accumulation test carried out and
 found satisfactory.

Survey Fee 254,400 When applied for 17. NOV. 1953
 Travelling Expenses (if any) f When received 19

FRIDAY 15 JAN 1954

Date
 Committee's minute

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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