

REPORT ON WATER TUBE BOILERS.

No. 239

Received at London Office 12 AUG 1950

ing Report 10/7/ 1950 When handed in at Local Office 10/7/ 19 50 Port of Yokohama
 Survey held at Yokohama Date, First Survey 14th April Last Survey 12th May 19 50
 supplement on the S.S. "Fuji Maru" (Number of Visits.....) Tons { Gross 3629
 Net 1995
 Yokohama By whom built Nippon Steel Tube Co. When built.....
 Made at Hitachi By whom made Hitachi Works, Hitachi Ltd. When made March 1949
 Made at Hitachi City Japan By whom made Hitachi Works, Hitachi Ltd. When made March 1949
 Horse Power..... Owners Nippon Yusosen K.K. Port belonging to Tokyo

R TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Yawata Steel Works

Approval of plan..... Number and Description or Type
 tu 2x3 drums water tube boiler Working Pressure 20 kg/cm² Tested by Hydraulic Pressure to 33.5 kg/cm² Date of Test 2-3-49
 Certificate..... Can each boiler be worked separately Yes Total Heating Surface of Boilers 2x320m² = 640m²
 draught fitted Yes Area of fire grate (coal) in each Boiler 8.5 m²
 type of burners (oil) in each boiler None No. and description of safety valves on
 Highlift spring loaded (2 off) Area of each set of valves per boiler { per rule 9.6 in²
 as fitted 11.9 in² Pressure to which they
 ed 20.6 kg/cm² Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 anufay boiler..... Smallest distance between boilers or uptakes and bunkers or woodwork 780mm Height of boiler 3900mm
 d Length 5800 x 4530mm Steam Drums: Number in each boiler 1 Inside diameter 1,300mm
 of plates 20mm shell plate 40mm tube plate Range of Tensile Strength Shell plate 45-55 kg/mm² Are drum shell plates welded
 Riveted with double butt straps If fusion welded, state name of welding firm Tube plate 41-50 kg/mm² Have all the requirements of the rules
 I vessels been complied with Description of riveting:—Cir. seams Lap joint long. seams Double butt straps
 of rivet holes in long. seams 26mm Pitch of rivets 100mm Thickness of straps Inner S. 13mm Percentage strength of
 Outer S. 16mm Pitch of tube holes 100 and 75mm
 15: Plate 74 Rivet 70.8 Diameter of tube holes in drum 61 and 45.85mm
 4: strength of shell in way of tubes 38.9 Steam Drum Heads or Ends: Range of tensile strength 26-30 T/in²
 of plates 32mm Radius or bow stayed 1170mm Size of manhole or handhole 280 x 380mm Water Drums: Number
 2-5: oiler 2 Inside Diameter 1000 and 600mm Thickness of plates Tube plate 40 and 38mm Range of tensile strength 41-50 kg/mm² Are drum shell plates
 6-50: flanged If fusion welded, state name of welding firm Have all the requirements of the rules
 I vessels been complied with Description of riveting:—Cir. seams Lap joint long. seam Double butt straps
 of rivet holes in long. seams 23mm and 20mm Pitch of rivets 90mm and 75mm Thickness of straps Inner S. 14mm and 11mm
 Outer S. 11mm and 11mm
 e strength of long. joint:—Plate 74.5 and Rivet 76.7 and Diameter of tube holes in drum 61 and 45.85mm Pitch of tube holes 100 and 75mm
 e strength of drum shell in way of tubes 38.9 91.2 Water Drum Heads or Ends: Range of Tensile strength 41-50 kg/mm²
 of plates 26mm and 18mm Radius or bow stayed 900mm and 540mm Size of manhole or handhole 280x380mm
 or Sections: Number..... Material..... Thickness..... Tested by Hydraulic Pressure to.....
 Diameter 60mm and 45mm Thickness 4.5 and 3.2mm Number 237 and 435 Steam Dome or Collector:—Description of
 bell..... Inside diameter..... Thickness of shell plates..... Range of tensile
 Description of longitudinal joint..... If fusion welded, state name of welding
 Have all the requirements of the rules for Class 1 vessels been complied with..... Diameter of rivet holes.....
 1b: Rivets..... Thickness of straps..... Percentage strength of long. joint..... Plate..... Rivet.....
 or End Plates:—Range of tensile strength..... Thickness..... Radius or bow stayed.....
 RHEATER. Drums or Headers:—Number in each boiler 2 headers Inside Diameter 152mm square
 24mm Material Stainless steel header Range of tensile strength min 38 kg/mm² (ST-38) Are drum shell plates welded
 If fusion welded, state name of welding firm Have all the requirements of the rules
 I vessels been complied with Description of riveting:—Cir. seams..... long. seams.....
 of rivet holes in long. seams..... Pitch of rivets..... Thickness of straps..... Percentage strength of
 1b: Plate Rivet Diameter of tube holes in drum..... Pitch of tube holes..... Percentage strength of
 l in way of tubes..... Drum Heads or Ends:—Thickness 25mm Range of tensile strength 41-50 kg/mm²
 how stayed..... Size of manhole or handhole 105mm x 85mm Number, diameter, and thickness of tubes 115 30mm 3.2mm
 Hydraulic Pressure to 40 kg/cm² Date of Test 26-3-49 Is a safety valve fitted to each section of the superheater which
 out off from the boiler Yes No. and description of Safety Valves 1x High lift spring type Area of each set
 5.95 in² Pressure to which they are adjusted 20 kg/cm² Is easing gear fitted Yes

Gear. Has the spare gear required by the rules been supplied Yes
 5b = 320mm } Total for Reg. BK = 7595
 cft = 65.6

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - Is the approved plan of boiler forwarded herewith Yes
 During erection on board vessel - Total No. of visits.....

der 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 above boilers have been opened up and
 ed throughout, scantlings checked and found to be in accordance with approved plans and the
 workmanship and materials found satisfactory, it is submitted that the machinery of this
 be recommended for classification in accordance with the Rules for vessels not built under
 survey.

y Fee £ : : When applied for, 19
 Billing Expenses (if any) £ : : When received, 19

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 ed See F. E. M. by. oph.

Engineer Surveyor to Lloyd's Register of Shipping.

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