

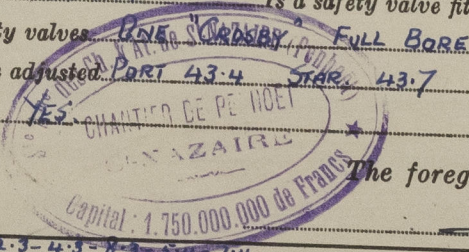
REPORT ON WATER TUBE BOILERS.

No. 480

Date of writing Report 7.3. 1955 When handed in at Local Office 14.3. 1955 Received at London Office 27 MAR 1955
 No. in Survey held at SAINT NAZAIRE Date, First Survey 29.12.53 Last Survey 17.2. 1955
 Reg. Book 90665 S on the SINGLE SCREW S.S. "ISANDA" (Number of Visits 29) Gross 2,071.3 Tons
 Built at SAINT NAZAIRE By whom built CH. AT. DE SAINT NAZAIRE (PENHOET) Yard No. K.15 When built 1955
 Engines made at SAINT NAZAIRE By whom made CH. AT. DE SAINT NAZAIRE (PENHOET) Engine No. K.15 When made 1955
 Boilers made at SAINT NAZAIRE By whom made CH. AT. DE SAINT NAZAIRE (PENHOET) Boiler No. 1822 & 1823 When made 1955
 HS for Register Book 22.800 sq ft Owners. SOCIETE MARITIME SHELL Port belonging to LE HAVRE

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel PLATES: CRUESOT TUBES: LAURAIL & ESCAUT ET MEUSE

Date of Approval of plan 15.4.53, 13.5.53 - 10.6.53 - 18.9.53 - 5.11.53
 of Boilers Two WATER TUBE - FOSTER WHEELER TYPE Working Pressure 50 Kgs Tested by Hydraulic Pressure to 79 Kgs Date of Test 3.8.54
 No. of Certificate 1822 & 1823 Can each boiler be worked separately YES Total Heating Surface of Boilers 6385 sq ft Superheaters 1370 sq ft
 Half Economisers 3645 sq ft Is forced draught fitted YES Area of Fire Grate (coal) in each Boiler
 No. and type of burners (oil) in each boiler 4 - PENHOET TYPE No. and description of safety valves on each boiler Two "CROSBY" FULL BORE
 Area of each set of valves per boiler per rule as fitted 2 x 1.2868 sq in ORIFICE Pressure to which they are adjusted STAR 43.0 47.2 Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 Width and length 3.495 x 6.000 m Steam Drums:—Number in each boiler ONE Height of boiler 10.200 m
 Thickness of plates 40 L 80 (TUBE PLATE) Range of tensile strength 44/50 Inside diameter MEAN DIA 1300
 or flanged WELDED If fusion welded, state name of welding firm CH. AT. DE SAINT NAZAIRE (PENHOET) Are drum shell plates welded for Class I vessels been complied with YES Have all the requirements of the Rules
 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 109-89.75 Pitch of tube holes AS PLAN
 Percentage strength of shell in way of tubes MIN 40.2 Steam Drum Heads or Ends:—Range of tensile strength 44/50
 Thickness of plates 60 & 65 (MANHOLE) Radius or how stayed SEMI ELLIPSOIDAL AXIS 1235 x 650 Size of manhole or handhole 400 x 300 Water Drums:—Number in each boiler ONE Inside diameter 760 Thickness of plates 50 Range of tensile strength 44/50 Are drum shell plates welded or flanged WELDED If fusion welded, state name of welding firm CH. AT. DE SAINT NAZAIRE (PENHOET) Have all the requirements of the Rules for Class I vessels been complied with YES 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 109-89.75 Pitch of tube holes AS PLAN
 Percentage strength of drum shell in way of tubes MIN 40.2 Water Drum Heads or Ends:—Range of tensile strength 44/50
 Thickness of plates 40 & 45 (MANHOLE) Radius or how stayed SEMI ELLIPSOIDAL AXIS 765 x 404 Size of manhole or handhole 400 x 300
 Headers or Sections:—Number 3 Material STEEL Thickness 26 Tested by hydraulic pressure to 79 Kgs
 Tubes:—Diameter 108-89-51-35 Thickness 10-10-5-3 Number 6-2-207-979 Steam Dome or Collector:—Description of joint to shell Inside diameter Thickness of shell plates Range of tensile strength
 Description of longitudinal joint If fusion welded, state name of welding firm Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes
 Pitch of rivets Thickness of straps Percentage strength of long. joint plate rivet
 Crown or End Plates:—Range of tensile strength Thickness Radius or how stayed
 SUPERHEATER, Drums or Headers:—Number in each boiler Two Inside diameter 228
 Thickness 32 Material CR. MO. STEEL Range of tensile strength 44/50 Are drum shell plates welded or flanged SOLID DRAWN If fusion welded, state name of welding firm Have all the requirements of the Rules for 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 30.25 Pitch of tube holes 47.5 Percentage strength of drum shell in way of tubes 36.4 Drum Heads or Ends:—ENDS Thickness 45 Range of tensile strength 44/50
 Radius or how stayed FLAT Size of manhole or handhole 51.5 DIA Number, diameter, and thickness of tubes 215-30-3
 Tested by hydraulic pressure to 84 Kgs Date of test 3.8.54 - 10.8.54 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler No. and description of safety valves ONE "CROSBY" FULL BORE Area of each set of valves 1.8385 sq in ORIFICE Pressure to which they are adjusted PORT 43.4 STAR 43.7 Is easing gear fitted YES
 Spare Gear. Has the spare gear required by the Rules been supplied YES



The foregoing is a correct description,

Signature of Engineer Surveyor

Manufacturer.

Dates During progress of work in shops 29.12.53 1954-11.1-18.2-20.2-22.2-2.3-4.3-8.3-8.4-7.4
 Survey while building During erection on board vessel 19.10.54-29.12.1954 12.2-14.2-15.2-17.2
 the approved plan of boiler forwarded herewith
 Total No. of visits 29

this 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, etc.) These boilers have been constructed under special supervision in accordance with approved plans, rule requirements & Secretary's letter. The quality of materials & workmanship is good. The boilers have been satisfactorily installed on board & examined under full working conditions. These boilers are, in my opinion, eligible to be classed as part of the machinery with the notation + LMC-2.55.

Survey Fee ... £262.760 When applied for 10
 Travelling Expenses (if any) £15.795 When received 10
 Additional for class I Press Vessels 40.000

Date ...
 Committee's Minute See Rpt. 4a.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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