

REPORT ON BOILERS.

No. 41207

Received at London Office

WED. 6 JUL. 1921

Date of writing Report 1st July 1921 When handed in at Local Office 4th July 1921 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 13th Oct. 1920 Last Survey 27th June 1921
 Reg. Book. Marine Book No. 1747 S.S. "Fau Lang" (Number of Visits 13) Gross Tons / Net Tons
 Master Dimuth Bennett Ltd Built at Port Glasgow By whom built Dimuth Bennett Ltd When built 1921
 Engines made at Port Glasgow By whom made Swanwick & Co Ltd When made 1921
 Boilers made at Glasgow By whom made The Forth Shipbuilding Coy When made 1921
 Registered Horse Power _____ Owners _____ Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Wm Beardmore & Steel Co of Scotland

(Letter for record S) Total Heating Surface of Boilers 576 sq ft Is forced draft fitted no No. and Description of Boilers One Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 27/6/21
 No. of Certificate 15857 Can each boiler be worked separately no Area of fire grate in each boiler 24 1/2 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 3.9 sq in Pressure to which they are adjusted 105 lb
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 8'-6" Length 8'-6"
 Material of shell plates Steel Thickness 9/16 Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams Lap S.R. long. seams DBS. DR. Diameter of rivet holes in long. seams 3/4 Pitch of rivets 4 7/32
 Gap of plates or width of butt straps 8" Per centages of strength of longitudinal joint rivets 83-1 Working pressure of shell by rules 82-2
 Size of manhole in shell 16" x 12" Size of compensating ring 2'-6" x 2'-2" x 3/4 No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 2'-8" Length of plain part 64" Thickness of plates 1 1/2
 Description of longitudinal joint held No. of strengthening rings one Working pressure of furnace by the rules 130 Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 1/2 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 1/2 Back 8 1/2 x 8 3/4
 Top 9" If stays are fitted with nuts or riveted heads tubs Working pressure by rules 100 Material of stays Steel Area at smallest part 1.19 sq ft Area supported by each stay 1.4 sq ft Working pressure by rules 102 End plates in steam space: Material Steel Thickness 3/4
 Pitch of stays 15" How are stays secured DN Wash Working pressure by rules 118 Material of stays Steel Area at smallest part 2.7 sq ft
 Area supported by each stay 2.25 sq ft Working pressure by rules 125 Material of Front plates at bottom Steel Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 12 1/2 x 8 3/4 Working pressure of plate by rules 160 Diameter of tubes 3"
 Pitch of tubes 4" Material of tube plates Steel Thickness: Front 3/4 Back 2 1/32 Mean pitch of stays 10" Pitch across wide water spaces 12 1/2 Working pressures by rules 111 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 5/8" x 2 Length as per rule 22 3/4 in Distance apart 9" Number and pitch of Stays in each One at 10"
 Working pressure by rules 122 Steam dome: description of joint to shell none % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type None Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

Survey request form No. 2557 attached
 The foregoing is a correct description, FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD. (LINDSAY BURNETT'S BOILER WORKS) James Dick Manufacturer.
 Dates of Survey while building: During progress of work in shops (1920 Oct 13, 28, Nov 24, 1921 Jan 19, Feb 9, 17, Mar 24, May 5, 11, 24, Jun 7, 21, 27) Is the approved plan of boiler forwarded herewith yes.
 Total No. of visits 13.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been built under special survey.
The workmanship + materials are of good quality
This donkey boiler has now been efficiently tested on board the above named steamer

Survey Fee ... £ 4 : 4 } When applied for, 5-JUL-1921
 Travelling Expenses (if any) £ _____ } When received, 7-7-1921
 Committee's Minute GLASGOW 5-JUL-1921
 Assigned TRANSMIT TO LONDON
 Peter M. Chegor. Engineer Surveyor to Lloyd's Register of Shipping. GLASGOW 29 NOV 1921
 See L.R. Sp. 17920.
 Lloyd's Register Foundation