

REPORT ON BOILERS.

No. 41336

Received at London Office W.F.U. 7 SEP. 1921

Date of writing Report 29 Aug 1921 When handed in at Local Office 29 Aug 1921 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 10th Decy 1920 Last Survey 23rd August 1921
 Reg. Book. S.S. Broughty (Number of Visits 20) Gross Tons Net Tons
 on the S.S. Broughty
 Master Built at Larne By whom built Larne Shipbuilding Co When built 1921
 Engines made at Coatbridge By whom made Wm Beardmore & Co Ltd (566) When made 1921
 Boilers made at Glasgow By whom made Arto Dalglish No 768 When made 1921
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville & Sons(Letter for record S) Total Heating Surface of Boilers 1566 Sq. ft. Is forced draft fitted No. and Description ofBoilers One Single Ended Multitubular Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 23/8/21No. of Certificate 15888 Can each boiler be worked separately Area of fire grate in each boiler No. and Description ofsafety valves to each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork INS dia. of boilers 13'-0" Length 10'-3"Material of shell plates Steel Thickness 1 1/16 Range of tensile strength 28/32 Are the shell plates welded or flanged Descrip. of riveting: cir. seams Lap & R long. seams SB&J.R. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 1/4Lap of plates or width of butt straps 16 5/8 Per centages of strength of longitudinal joint 89 Working pressure of shell byrules 181 Size of manhole in shell 16" x 12" Size of compensating ring 32" x 28" x 1 1/16 No. and Description of Furnaces in eachboiler 3 Brighton Material Steel Outside diameter 3'-6" Length of plain part Thickness of plates Description of longitudinal joint held No. of strengthening rings Working pressure of furnace by the rules 180 Combustion chamberplates: Material Steel Thickness: Sides 1 1/16 Back 3/32 Top 1 1/16 Bottom 1 1/16 Pitch of stays to ditto: Sides 8 1/2" x 9" Back 8" x 8"Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads Working pressure by rules 190 Material of stays Steel Area atsmallest part 15 Area supported by each stay 64 Working pressure by rules 187 End plates in steam space: Material Steel Thickness 1 1/8Pitch of stays 18" x 18" How are stays secured DN & W Working pressure by rules 185 Material of stays Steel Area at smallest part 61Area supported by each stay 324 Working pressure by rules 195 Material of Front plates at bottom Steel Thickness 1 1/8 Material ofLower back plate Steel Thickness 1 1/8 Greatest pitch of stays 14" x 8" Working pressure of plate by rules 200 Diameter of tubes 3 1/4Pitch of tubes 4 1/8" x 4 3/8" Material of tube plates Steel Thickness: Front 1 1/8 Back 1 1/2 Mean pitch of stays 8 1/2" x 8 1/2" Pitch across widewater spaces 14" x 1 1/8" double Working pressures by rules 258 Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 8 1/2" x 16" x 2 Length as per rule 30 3/16 Distance apart 8 1/2 Number and pitch of Stays in each 100 8 1/2" x 9"Working pressure by rules 194 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. 2464 attached

The foregoing is a correct description,

A. W. Dalglish Manufacturers

Dates of Survey During progress of 1920 Feb 10, Mar 24, Apr 7, 14, 22, May 4, Jun 8, Aug 5, 12, Sep 6, 13, 21 Is the approved plan of boiler forwarded herewith Yes
 while work in shops - - Oct 12, Nov 10, 16, 23, Dec 6, 14, (1921) Aug 23
 building During erection on board vessel - - - Total No. of visits 20

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.The boiler will be fitted on board at Glasgow.Boiler now securely fitted on board.Survey Fee ... £ 10 : 8/- When applied for, 5.9.1921Travelling Expenses (if any) £ When received, 9.12.1921

Committee's Minute

GLASGOW.

6-SEP-1921

Signed

TRANSMIT TO LONDON

GLASGOW

25 OCT 1921

FRI. 2 DEC. 1921

002340-002351-0035