

# REPORT ON BOILERS.

No. 75139

Received at London Office 29 JUN 1950

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When handed in at Local Office 27/2/1950

Port of GLASGOW

10TH MARCH,

17TH MAY, 1944

Last Survey 16TH FEB. 1950

(Number of Visits 22)

Gross 982

Net 488

When built 1950

When made 1950

Boiler No. 5.06175

When made

Port belonging to LONDON

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

THE STEEL CO. OF SCOTLAND & COLVILLIES LTD. (Letter for Record (S))

Is forced draught fitted YES Coal or Oil fired OIL

Working Pressure 200 lbs/sq

Date of test 8/12/49 No. of Certificate 23038

No. and Description of safety valves to each boiler TWO

Pressure to which they are adjusted 200 lbs/sq

Is oil fuel carried in the double bottom under boilers

Is the bottom of the boiler insulated

Shell plates: Material STEEL Tensile strength 29/33 TONS/sq

Description of riveting: circ. seams end DR

Pitch of rivets 4.131" & 4.14"

Percentage of strength of circ. intermediate seam plate rivets

Working pressure of shell by Rules 200 lbs/sq

No. and Description of Furnaces in each Boiler 3-MORISON SECTION WITH STEPHEN

Smallest outside diameter 3'-5 1/2"

Description of longitudinal joint WELDED

Working pressure of furnace by Rules 209 lbs/sq

Pitch of stays 20 1/4" x 17 1/2"

Working pressure by Rules 204 lbs/sq

Thickness 29/32 25/32

Working pressure front 202 lbs/sq back 202 lbs/sq

Depth and thickness of girder

No. and pitch of stays

Combustion chamber plates: Material STEEL

Are stays fitted with nuts or riveted over NUTS-EXCEPT WING TO

SHALL STAYS-RIVETED OUTSIDE.

Tensile strength 26/30 TONS/sq

Thickness 27/32

Are stays fitted with nuts or riveted over NUTS

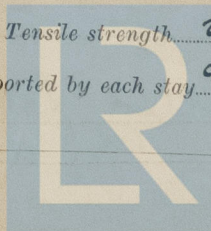
Tensile strength 28/32 TONS/sq

Area supported by each stay 20 1/4" x 17 1/2"

Screw stays: Material STEEL

Tensile strength 26/30 TONS/sq

Area supported by each stay 9 1/8" x 8 1/8" & 9 1/8" x 9"



Lloyd's Register Foundation

005194-005209-0163



Working pressure by Rules  $221 \frac{16}{8}$  Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads..... }  
No. of threads per inch 9 Area supported by each stay  $11 \frac{9}{16} \times 9 \frac{1}{8}$  Working pressure by Rules 202 13.  
Tubes: Material WROUGHT STEEL External diameter { Plain 3 1/2 Stay 3 1/2 Thickness 3/4 x 5/16 No. of threads per inch  
Pitch of tubes 4 1/2 x 4 1/2 Working pressure by Rules 230 16 3/8 & 205 16 3/8 Manhole compensation:  
shell plate 19" x 15" Section of compensating ring 14" x 1 5/16 No. of rivets and diameter of rivet holes 40-  
Outer row rivet pitch at ends 9 1/2 Depth of flange if manhole flanged 3" Steam Dome: Material  
Tensile strength Thickness of shell Description of longitudinal joint  
Diameter of rivet holes Pitch of rivets Percentage of strength of joint Plate Rivets  
Internal diameter Working pressure by Rules Thickness of crown  
stays Inner radius of crown Working pressure by Rules  
How connected to shell Size of doubling plate under dome  
of rivets in outer row in dome connection to shell Diameter of rivet

Type of Superheater NONE Manufacturers of Tubes Steel forgings Steel castings  
Number of elements Material of tubes Internal diameter and thickness of tubes  
Material of headers Tensile strength Thickness Can the superheater trip  
the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
Area of each safety valve Are the safety valves fitted with easing gear  
Rules Pressure to which the safety valves are adjusted  
tubes forgings and castings and after assembly in place  
valves fitted to free the superheater from water where necessary  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with YES.

The foregoing is a correct description of the boiler and superheater.  
FOR WILLIAM DENNY & BROS. LTD.  
Dates of Survey while building { During progress of work in shops - 10/2/49, 15/2/49, 20/2/49, 25/2/49, 31/5/49, 7/6/49, 14/6/49, 23/6/49, 21/7/49, 28/7/49, 16/8/49, 23/8/49, 30/8/49, 6/9/49, 15/9/49, 23/9/49, 4/10/49, 17/10/49, 15/11/49, 1/12/49, 8/12/49, 26/12/49, 10/1/49, 2/2/49, 16/2/49. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
During erection on board vessel - - -  
Total No. of visits 22

Is this Boiler a duplicate of a previous case YES-EXCEPT If so, state Vessel's name and Report No. "LONDONBROOK"  
THAT THIS BOILER IS OIL FIRED.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THIS BOILER HAS BEEN UNDER SPECIAL SURVEY IN ACCORDANCE WITH THE SOCIETY'S RULES APPROVED PLANS. THE MATERIALS AND WORKMANSHIP ARE GOOD. THE BOILER HAS BEEN DESPATCHED TO ABERDEEN INSTALLATION ON BOARD THE VESSEL.

H.K. Taylor.  
The boiler securely fitted on vessel, tried under steam and found satisfactory. Safety valves adjusted to 205 lbs/sq in.

John Douglas.  
Survey Fee £ 42 : 0 : 0 When applied for, 19.....  
Travelling Expenses (if any) £ : : When received, 19.....

Committee's Minute GLASGOW - 1 MAR 1950  
Assigned Inspected for Completion  
Engineer Surveyor to Lloyd's Register  
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