

## REPORT ON BOILERS.

No. 44274 attached  
44971

Received at London Office

31 DEC 1924

Date of writing Report 20 Dec 1924 When handed in at Local Office 27.12.1924 Port of Glasgow

No. in Reg. Book. Survey held at Glasgow

Date, First Survey 17.6.24

Last Survey 18.12.1924

on the

M.R. City of Stockholm

(Number of Visits 25)

Tons

Gross 5075

Net 3155

Master

Built at Glasgow

By whom built

Bundy Curle &amp; Co Ltd

Yard No. 608

When built 1925

Engines made at Glasgow

By whom made

N. British Diesel Eng. Works (1924)

Engine No. 35

When made 1925

Boilers made at Glasgow

By whom made

The Firth S.B. &amp; Co (1921/22)

Boiler No. 1817

When made 1924

Nominal Horse Power 626

Owners

Gullman Line Ltd

Port belonging to

Lwaxwal

## MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel W. Bannerman &amp; Co Ltd, The Steel Co of Scotland Ltd. (Letter for Record S)

Total Heating Surface of Boilers 1200 sq ft Is forced draught fitted yes Coal or Oil fired Oil

No. and Description of Boilers One Cyl. Mult. Single End 158 Working Pressure 120 lb

Tested by hydraulic pressure to 230 lb Date of test 18.12.24 No. of Certificate 16683 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two Relief Spring

Area of each set of valves per boiler {per Rule 13.2 sq ft as fitted 14.12 sq ft Pressure to which they are adjusted 120 lb Are they fitted with easing gear yes

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 Is oil fuel carried in the double bottom under boilers yes

Smallest distance between shell of boiler and tank top plating 2'-0" Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 10'-6" Length 11'-0" Shell plates: Material S Tensile strength 28/32 T.

Thickness 2 1/32 Are the shell plates welded or flanged No Description of riveting: circ. seams end 3/8 inter. 4 1/32

g. seams DBS/DR Diameter of rivet holes in {circ. seams 15/16 long. seams 7/8 Pitch of rivets 4 1/32

Percentage of strength of circ. end seams {plate 70.1 rivets 55.5 Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate 81.2 rivets 90.9 combined 92.64 Working pressure of shell by Rules 124 lb

Thickness of butt straps {outer 17/32 inner 2 1/32 No. and Description of Furnaces in each Boiler Two Plain 2 p.f.

Material S Tensile strength 26/30 T. Smallest outside diameter 39"

Length of plain part {top 87" bottom 87" Thickness of plates {crown 2 1/32 bottom 2 1/32 Description of longitudinal joint Weld

Dimensions of stiffening rings on furnace or c.c. bottom None Working pressure of furnace by Rules 133 lb

End plates in steam space: Material S Tensile strength 26/30 T. Thickness 7/8 Pitch of stays 18 x 13

How are stays secured DN Working pressure by Rules 142 lb

Tube plates: Material {front S back S Tensile strength {26/30 T. Thickness {23/32

Mean pitch of stay tubes in nests 11 1/4 x 8 3/4 Pitch across wide water spaces 14 1/4 Working pressure {front 125 lb back 183

Girders to combustion chamber tops: Material S Tensile strength 28/32 T. Depth and thickness of girder

At centre 6 1/4 x 1 1/4 Length as per Rule 27.718 Distance apart 9 No. and pitch of stays

In each 2 @ 9 Working pressure by Rules 124 lb Combustion chamber plates: Material S

Tensile strength 26/30 T. Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16

Pitch of stays to ditto: Sides 9 3/8 x 9 Back 9 x 9 Top 9 x 9 Are stays fitted with nuts or riveted over Nuts

Working pressure by Rules 127 lb Front plate at bottom: Material S Tensile strength 26/30 T

Thickness 23/32 Lower back plate: Material S Tensile strength 26/30 T Thickness 1 1/16

Pitch of stays at wide water space 10 1/2 x 9 Are stays fitted with nuts or riveted over Nut

Working Pressure 198 lb Main stays: Material S Tensile strength 28/32 T

Diameter {At body of stay 2 1/4 Over threads 2 1/4 No. of threads per inch 8 Area supported by each stay 234 sq in

Working pressure by Rules 147 lb Screw stays: Material S Tensile strength 26/30 T

Diameter {At turned off part 1 3/8 Over threads 1 3/8 No. of threads per inch 9 Area supported by each stay 81 sq in

Shipping.

2021

Lloyd's Register

Foundation

W117-0118



Working pressure by Rules 123 1/4 Are the stays drilled at the outer ends 40 ✓ Margin stays: Diameter { At turned off part, or Over threads 1 1/2 ✓  
 No. of threads per inch 9 ✓ Area supported by each stay 99 1/2 ✓ Working pressure by Rules 126 1/4 ✓  
 Tubes: Material 2 ✓ External diameter { Plain 3 1/4 ✓ Stay 3 1/4 ✓ Thickness { 10 1/4 ✓ 1 1/4 x 5/16 ✓ No. of threads per inch 9 ✓  
 Pitch of tubes 11 7/8 x 5 1/4 ✓ Working pressure by Rules 160 1/4 ✓ Manhole compensation: Size of opening in  
 shell plate 16 1/4 x 12 1/4 ✓ Section of compensating ring 15 x 2 1/32 ✓ No. of rivets and diameter of rivet holes 32 - 1 ✓  
 Outer row rivet pitch at ends 7 1/2 ✓ Depth of flange if manhole flanged - ✓ Steam Dome: Material None ✓  
 Tensile strength - Thickness of shell - Description of longitudinal joint - Plate Rivets  
 Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint - Thickness of crown - No. and diameter of  
 Internal diameter - Working pressure by Rules - Working pressure by Rules - Diameter of rivet holes and pitch  
 stays - Inner radius of crown - Diameter of rivet holes and pitch  
 How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and pitch  
 of rivets in outer row in dome connection to shell -

Type of Superheater - Manufacturers of { Tubes - Steel castings -  
 Number of elements - Material of tubes - Internal diameter and thickness of tubes -  
 Material of headers - Tensile strength - Thickness - Can the superheater be shut off and  
 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 - Working pressure as per  
 Rules - Pressure to which the safety valves are adjusted - Hydraulic test pressure: -  
 tubes -, castings - and after assembly in place - Are drain cocks or valves fitted  
 to free the superheater from water where necessary -

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with -

The foregoing is a correct description,

FOR THE FORTH SHIPBUILDING & ENGINEERING CO. LTD. (LINDSAY BURNET'S BOILER WORKS) Charles Cooper Manufacturer.

Dates of Survey { During progress of work in shops - - - 1924 June 17, July 31, Aug 15, 18, 21, 25 ✓  
 while building { During erection on board vessel - - - Sept. 11, 15, 22, 30, Oct 3, 9, 13, 20, Nov 5, 10, 14, 19, 24, 27 ✓  
 Are the approved plans of boiler and superheater forwarded herewith Yes ✓  
 (If not state date of approval.)  
 Total No. of visits 25 ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been constructed  
under official survey in accordance with the Rules and approved plan,  
The materials and workmanship employed in its manufacture are  
sound and good.  
It will be fitted on board the Vessel at Glasgow  
The boiler has been satisfactorily fitted on board the M.V. City of Stock  
(Barclay Line & Co. No 608) examined under steam and safety valves  
adjusted to 120 lbs per sq inch

Survey Fee ... £ 8 : 0 : 0  
 Travelling Expenses (if any) £ - : :  
 27/12/24

When applied for, 30/12/24 1924  
 When received, 28/1/25 1925

W. Lane AB Morrison  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 30 DEC 1924

GLASGOW 8-SEP 1925

Assigned

TRANSMIT TO LONDON AD

See Gl. Rpt. No. 44971

