

REPORT ON BOILERS.

No. 85231

Received at London Office

25 JAN 1930

Date of writing Report

192

When handed in at Local Office

24/1/30

Port of

Newcastle-on-Tyne

No. in Survey held at
Reg. Book.

on the

Date, First Survey

24 July 1929

Last Survey

15 Jan 1930

(Number of Visits)

Tons

Gross 1056

Net 4554

Master

Built at

Belfast

By whom built

Wickman Clark & Co

Yard No.

When built

1921

Engines made at

Belfast

By whom made

Wickman Clark & Co Ltd

Engine No.

When made

1921

Boilers made at

By whom made

Boiler No.

When made

Nominal Horse Power

Owners

City Line Ltd

Port belonging to

Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

(per Rule
as fitted

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

Long. seams

Diameter of rivet holes in

Pitch of rivets

Percentage of strength of circ. end seams

Percentage of strength of circ. intermediate seam

Percentage of strength of longitudinal joints

Working pressure of shell by Rules

Thickness of butt straps

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

Thickness of plates

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

No. of threads per inch

Area supported by each stay

At body of stay,

Over threads

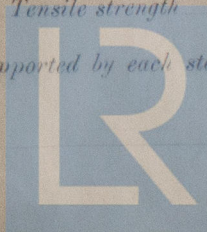
At turned off part,

Over threads

No. of threads per inch

Area supported by each stay

W603-0165



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Lloyd's Register
Foundation

Working pressure by Rules Are the stays drilled at the outer ends Margin stays : Diameter { At turned off part, or Over threads

No. of threads per inch Area supported by each stay 11 x 5 Working pressure by Rules

Tubes : Material External diameter { Plain Stay Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation : Size of

shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged 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 No. and di

stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes

of rivets in outer row in dome connection to shell

Type of Superheater North Eastern Smoke tube (Schmit type) Weldless steel tube

Number of elements 228 Material of tubes Solid drawn steel Manufacturers of Internal diameter and thickness of tubes 15 in x 2.5

Material of headers Forged steel Tensile strength 26 to 30 tons Thickness Can the superheater be sho

the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes

Area of each safety valve 3.1 x 16 High lift Are the safety valves fitted with easing gear yes Working press

Rules 225 lbs Pressure to which the safety valves are adjusted 230 lbs Hydraulic test p

tubes 1500 lbs Castings 6 1/2 lbs and after assembly in place 562 lbs Are drain cocks or val

to free the superheater from water where necessary yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,

Dates of Survey { During progress of work in shops - - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - } Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

Superheaters fitted to all boilers Main steam pipes of steel all valves & connections carrying superheated steam made of cast steel. Tested & inspected as required & found satisfactory.

Survey Fee £ See memo When applied for, 192

Travelling Expenses (if any) £ report When received, 192

William Butler Engineer Surveyor to Lloyd's Register of Sh

Committee's Minute FRI. 14 FEB 1930

Assigned