

## REPORT ON BOILERS.

No. 62223

Received at London Office

APR 24 1940

Date of writing Report

19

When handed in at Local Office

20. 4. 1940

Port of

Glasgow

No. in  
Reg. Book.

Survey held at

Paisley

Date, First Survey

Last Survey

3 April

1940

(Number of Visits

Gross 1421

Tons {  
Net 839

Built at

Paisley

By whom built

Fleming & Ferguson L<sup>d</sup>

Yard No. 557

When built 1940

Engines made at

Paisley

By whom made

Fleming & Ferguson L<sup>d</sup>

Engine No. 557

When made 1940

Boilers made at

Paisley

By whom made

A. F. Braigg L<sup>d</sup>

Boiler No. 724

When made 1940

Nominal Horse Power

Owners Government of Newfoundland

Port belonging to St. Johns N.F.L.

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

Manufacturers of Steel

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

yes

Coal or Oil fired

Oil-fired

No. and Description of Boilers

Two - Single-ended.

Working Pressure

210 lbs.

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

One - 2 1/2" Double Spring High Lift

Area of each set of valves per boiler

{ per Rule  
as fitted12.5 B  
7.94

Pressure to which they are adjusted

210

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

will clear

Is oil fuel carried in the double bottom under boilers

No.

Smallest distance between shell of boiler and tank top plating

yes

20"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams {  
end  
inter.

Long. seams

Diameter of rivet holes in {  
circ. seams  
long. seams

Pitch of rivets {

Percentage of strength of circ. end seams {  
plate  
rivetsPercentage of strength of circ. intermediate seam {  
plate  
rivetsPercentage of strength of longitudinal joint {  
plate  
rivets  
combinedThickness of butt straps {  
outer  
inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part {  
top  
bottomThickness of plates {  
crown  
bottom

Description of longitudinal joint

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

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Tube plates: Material {  
front  
back

Tensile strength {

Thickness {

Mean pitch of stay tubes in nests

Pitch across wide water spaces

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

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

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

Main stays: Material

Tensile strength

Diameter {  
At body of stay,  
or  
Over threads

No. of threads per inch

Screw stays: Material

Tensile strength

Diameter {  
At turned off part,  
or  
Over threads

No. of threads per inch



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Are the stays drilled at the outer ends

Margin stays : Diameter { At turned off part,  
or  
Over threads

No. of threads per inch

Tubes : Material

External diameter { Plain  
Stay

Thickness {

No. of threads per inch

Pitch of tubes

Manhole compensation: Size of opening in

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

Thickness of crown

No. and diameter of

stays

Inner radius of crown

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

Number of elements

Material of tubes

Manufacturers of { Tubes  
Steel forgings  
Steel castings

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

Pressure to which the safety valves are adjusted

Hydraulic test pressure :

tubes

forgings and 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 22 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of  
work in shops - - -  
while building { During erection on  
board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith  
(If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case

If so, state Vessel's name and Report No.

### GENERAL REMARKS

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

These boilers have been properly fitted on board tried under full working conditions and found satisfactory. The safety valves have been adjusted under steam to 210 lbs. per sq. inch.

Survey Fee ... .. £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute GLASGOW 23 APR 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT.

James Crawford  
Engineer Surveyor to Lloyd's Register of Shipping.



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