

REPORT ON BOILERS.

No. 54691

Received at London Office

-4 JUL 1934

Date of writing Report

10

When handed in at Local Office

30. 6. 1934

Port of

Glasgow

No. in
Reg. Book. Survey held at

Date, First Survey

13. 2. 34

Last Survey

28. 6. 1934

on the

S.S. "Thorn"

(Number of Visits 30)

Gross 347

Tons Net 121

Master

Built at

Bowling

By whom built

Scott & Sons

Yard No.

326

When built

1934

Engines made at

Glydebank

By whom made

Ritchison Blair & Co. Ltd

Engine No.

187

When made

1934

Boilers made at

Glasgow

By whom made

David Rowan & Co.

Boiler No.

393

When made

1934

Nominal Horse Power

79

Owners

Frontier Town S.S. Co. Ltd

Port belonging to

Newry

See S.S. Report No. 54409.

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

Manufacturers of Steel

(Letter for Record)

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Coal

No. and Description of Boilers

Working Pressure 205

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

1-double spring loaded

Area of each set of valves per boiler

per Rule 8.44
as fitted 9.8

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

✓

Smallest distance between boilers or uptakes and bunkers or woodwork

42'

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

Open floors.

Is the bottom of the boiler insulated

No

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

long. seams

Diameter of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate

Working pressure of shell by Rules

Thickness of butt straps

outer

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

Thickness of plates

crown

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

front

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

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

At body of stay,

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part,

No. of threads per inch

Area supported by each stay

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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 _____ 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 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 _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of _____
stays _____ Inner radius of crown _____ Working pressure by Rules _____
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 22 inclusive for boilers been complied with _____

The foregoing is a correct description, _____

Manufacturer _____

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith _____
while building { During erection on board vessel - - } (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.) This boiler has been securely fitted on board and the safety valves adjusted under steam.

J. S. Cairns

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

J. S. Cairns, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 JUL 1934

Assigned See accompanying machinery report