

REPORT ON BOILERS.

No. 48200

Received at London Office

25 JUL 1928

Date of writing Report

192

When handed in at Local Office

21. 7. 1928

Port of

Glasgow

No. in Survey held at
Reg. Book.

Glasgow.

Date, First Survey

1-2-28

Last Survey

10-4-

1928

on the

M.V. "CLYDEFIELD."

(Number of Visits 58)

Gross 6758

Net 3949

Master

Glasgow

Built at

Glasgow

By whom built

D & W. Henderson

Yard No. 808

When built 1928

Engines made at

Glasgow

By whom made

Harland & Wolff Ltd

Engine No. 808

When made 1928

Boilers made at

D.

By whom made

D & W. Henderson & Co

Boiler No. 808

When made 1928

Nominal Horse Power

647

Owners

Hunting & Son Ltd

Port belonging to

Newcastle

SEE GLASGOW REPORT. No 44934.

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

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 120 lbs.

Are they fitted with easing gear

Yes.

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

No main boilers.

Smallest distance between boilers or uptakes and bunkers or woodwork

Well clear.

Is oil fuel carried in the double bottom under boilers

✓

Smallest distance between shell of boiler and tank top plating

Boilers on upper deck.

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
combined

Working pressure of shell by Rules

Thickness 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

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
back

Tensile strength {

Thickness {

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure { front
back

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,
or
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter { At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

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 _____
 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 _____
 Number of elements _____ Material of tubes _____ Manufacturers of { Tubes _____ Steel castings _____ }
 Material of headers _____ Tensile strength _____ Internal diameter and thickness of tubes _____
 the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____ Can the superheater be shut off and _____
 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 DAVID & W. HENDERSON & CO. Ld. Manufacturer.
 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) _____
 Total No. of visits 68

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been fitted on board the above vessel & properly secured. The boilers were examined under steam and the safety valves adjusted.
 Fitted for burning oil fuel 4, 28. F.P. above 150°F.

A.L.
 21/7/28

Survey Fee ... £ : : When applied for, 192
 Travelling Expenses (if any) £ : : When received, 192

J. MacDonald.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 24 JUL 1928 NDM
 Assigned See Accompanying Machinery Report