

REPORT ON BOILERS.

No. 15431

Received at London Office

10 SEP 1952

When handed in at Local Office 8th Sept, 1952 Port of BELFAST.

held at BELFAST.

Date, First Survey 20th September, 1951 Last Survey 29th August, 1952

m/v CLYDEFIELD

(Number of Visits 31)

Gross 11163.20

Tons Net 6412.25

Built at GLASGOW By whom built HARLAND & WOLFF Yard No. 1436. When built

GLASGOW By whom made HARLAND & WOLFF LTD

Engine No. 1436. When made

BELFAST. By whom made HARLAND & WOLFF LTD. (BELFAST)

Boiler No. 1436G. When made

Power Owners MESS^{rs} HUNTINE & SON LTD

Port belonging to NEWCASTLE.

BULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

of Steel COLVILLES LTD.

Surface of Boilers 6228 sq

Is forced draught fitted Yes.

(Letter for Record S)

Description of Boilers Two - CYLINDRICAL MULTITUBULAR.

Coal or Oil fired Oil

Working Pressure 180 lbs/sq.

Can each boiler be worked separately

No. and Description of safety valves to each boiler One 2 3/4" C.S. 1MP. HIGH LIFT. DOUBLE.

Pressure to which they are adjusted 183 lbs/sq. Are they fitted with easing gear Yes.

Do any boilers, state whether steam from main boilers can enter the donkey boiler

Is oil fuel carried in the double bottom under boilers No

Is the bottom of the boiler insulated

Shell plates: Material STEEL. Tensile strength 29/33.

Description of riveting: circ. seams end D.R.B.

Pitch of rivets 3.501"

Percentage of strength of circ. intermediate seam plate rivets

Working pressure of shell by Rules 181.4 lbs/sq.

No. and Description of Furnaces in each Boiler 3 "DEIGHTON"

Tensile strength 26/30.

Smallest outside diameter 3' 9 3/16"

Thickness of plates 19/32"

Description of longitudinal joint WELDED.

Working pressure of furnace by Rules 191.2 lbs/sq.

Thickness 1 1/8"

Pitch of stays 1/2"

Working pressure by Rules 186 lbs/sq.

Thickness 7/8"

Working pressure 191 lbs/sq.

Working pressure 198 lbs/sq.

Depth and thickness of girder

No. and pitch of stays

Combustion chamber plates: Material STEEL

Thickness: Sides 13/16"

Back 3/4"

Top 13/16"

Bottom 13/16"

Are stays fitted with nuts or riveted over RIVETED AT SHELL.

Front plate at bottom: Material STEEL

Tensile strength 26/30.

Thickness 7/8"

Are stays fitted with nuts or riveted over WELDED.

Main stays: Material STEEL

Tensile strength 28/32.

No. of threads per inch 6

Area supported by each stay 18 1/8" x 17"

Screw stays: Material STEEL

Tensile strength 26/30.

No. of threads per inch 9.

Area supported by each stay 10 1/8" x 10 3/4" - 10" x 10"

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Working pressure by Rules 225 lbs/sq. in. Are the stays drilled at the outer ends ☒ No Margin stays: Diameter $\begin{cases} \text{At turned off part,} \\ \text{or} \\ \text{Over threads.} \end{cases} 1\frac{3}{4}" - 2"$
No. of threads per inch WELDED Area supported by each stay $13\frac{1}{4}" \times 10"$ Working pressure by Rules 192 lbs/sq. in.
Tubes: Material S.D. STEEL External diameter $\begin{cases} \text{Plain} & 2\frac{3}{4}" \\ \text{Stay} & 2\frac{3}{4}" \end{cases}$ Thickness $\begin{cases} 5\frac{1}{16}" - 3\frac{1}{8}" - 7\frac{1}{16}" \\ 9 \text{ L.S.G.} \end{cases}$ No. of threads per inch report
Pitch of tubes $3\frac{7}{8}" \times 4"$ Working pressure by Rules AS APPROVED Manhole compensation: Size
shell plate $16\frac{1}{2}" \times 12\frac{1}{2}"$ Section of compensating ring $17" \times 1\frac{1}{8}"$ No. of rivets and diameter of rivet holes $28 - 1\frac{1}{2}"$
Outer row rivet pitch at ends $9\frac{3}{4}"$ Depth of flange if manhole flanged $3\frac{3}{8}"$ (BACK END ONLY) Steam Dome: Material ✓
Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓
Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint $\begin{cases} \text{Plate} \\ \text{Rivets} \end{cases}$ ✓
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. at
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓ at at
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet or esse
of rivets in outer row in dome connection to shell ✓

Type of Superheater ✓ Manufacturers of $\begin{cases} \text{Tubes} \\ \text{Steel forgings} \\ \text{Steel castings} \end{cases}$ ✓
Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓
Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be betw
the boiler be worked separately ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler 25
Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓ Working of jo
Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydran Diame
tubes ✓ forgings and castings ✓ and after assembly in place ✓ ed to fitted
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 YES.
The foregoing is a correct description of the boiler and superheater ✓

Dates of Survey $\begin{cases} \text{During progress of} \\ \text{work in shops} - - \end{cases}$ Are the approved plans of boiler and superheater forwarded here ✓
while building $\begin{cases} \text{During erection on} \\ \text{board vessel} - - - \end{cases}$ (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 constructed under Special Survey in accordance with Rules, approved plans, and Secretary's orders. The materials and workmanship are good. These Boilers have now been securely fastened on board the vessel, and full power, the safety valves adjusted under steam to 183 lbs. Accumulator carried out & found satisfactory

Survey Fee ... $\pounds 91 : 10 : 0$ When applied for, 8th Sept., 1952.
Travelling Expenses (if any) \pounds : : When received, 19

Committee's Minute

Assigned

GLASGOW

10 FEB 1953

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