

REPORT ON BOILERS.

No. 18230

Received at London Office

29 JAN 1942

Writing Report

28/1/

1942

When handed in at Local Office

28/1/

1942

Port of

W. Hartlepool

Survey held at

Hartlepool

Date, First Survey

8th May, 1941.

Last Survey

27th January, 1942

on the

s/s "EAGLESDALE" "EASEDALE"

(Number of Visits

85)

Gross

Tons

Net

Haverston Hill

By whom built

Thomas Shipbuilding Co. Ltd.

Yard No.

340

When built

1942

s made at

Hartlepool

By whom made

Richardson Westgarth Co.

Engine No.

2712

When made

1942

s made at

"

By whom made

"

"

"

Boiler No.

2712

When made

1942

al Horse Power

674

Owners

Admiralty

Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Co. of Scotland

(Letter for Record

S

Heating Surface of Boilers

10020

Is forced draught fitted

Yes

Coal or Oil fired

oil

Description of Boilers

3 S.E. Multitubular

Working Pressure

220 lb/sq. in.

by hydraulic pressure to

380 lb/sq. in.

Date of test

7/1/42

No. of Certificate

3954

Can each boiler be worked separately

Yes

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2-2½" Spring loaded high lift

of each set of valves per boiler

per Rule

8.65 sq. in.

as fitted

9.8 sq. in.

Pressure to which they are adjusted

225 lb/sq. in.

Are they fitted with easing gear

Yes

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

Least distance between boilers or uptakes and bunkers or woodwork

3'-9"

Is oil fuel carried in the double bottom under boilers

Yes

Least distance between shell of boiler and tank top plating

2'-6"

Is the bottom of the boiler insulated

Yes

Least internal dia. of boilers

16'-2 31/32"

Length

12'-6"

Shell plates: Material

Steel

Tensile strength

30/34

Thickness

1 33/64"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

and

D.R.L.

Seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams

1 1/2"

long. seams

1 7/16"

Pitch of rivets

4"

10 1/2"

Percentage of strength of circ. end seams

plate

62.5

rivets

44.7

Percentage of strength of circ. intermediate seam

plate

85.1

rivets

Percentage of strength of longitudinal joint

plate

85.1

rivets

86.7

combined

87.5

Thickness of butt straps

outer 1 5/32"

inner 1 9/32"

No. and Description of Furnaces in each Boiler

3 Deighton (gourlay neck)

Material

Steel

Tensile strength

26/30

Smallest outside diameter

3'-11 23/32"

Thickness of plain part

top

bottom

Thickness of plates

crown

4 7/16"

Description of longitudinal joint

welded

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

Plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

1 13/32"

Pitch of stays

22 1/4" x 18 1/2"

Are stays secured

double nuts

Plates: Material

front

back

Steel

Steel

Tensile strength

26/30

Thickness

15/16"

7/8"

Pitch of stay tubes in nests

9 5/8"

Pitch across wide water spaces

14 1/2" x 7 1/4"

Plates to combustion chamber tops: Material

Steel

Tensile strength

29/33

Depth and thickness of girder

Size

2-11 3/4" x 1"

Length as per Rule

3'-10 1/2"

Distance apart

9"

No. and pitch of stays

Size

3 @ 11 1/8"

Combustion chamber plates: Material

Steel

Tensile strength

26/30

Thickness: Sides

13/16"

Back

23/32"

Top

13/16"

Bottom

29/32"

Pitch of stays to ditto: Sides

9" x 11 1/8"

Back

9" x 8"

Top

9" x 11 1/8"

Are stays fitted with nuts or riveted over

nuts

Plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

15/16"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

15/16"

Pitch of stays at wide water space

15 3/8" x 8"

Are stays fitted with nuts or riveted over

nuts

Stays: Material

Steel

Tensile strength

28/32

At body of stay

3 1/2"

No. of threads per inch

6

Over threads

Steel

At turned off part

2" x 1 3/4"

No. of threads per inch

9

Over threads

Steel

At turned off part

2" x 1 3/4"

No. of threads per inch

9

Over threads

Steel

At turned off part

2" x 1 3/4"

No. of threads per inch

9

Over threads

Steel

At turned off part

2" x 1 3/4"

No. of threads per inch

9

Over threads

Steel

At turned off part

2" x 1 3/4"

No. of threads per inch

9

Over threads

Steel

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Foundation

Are the stays drilled at the outer ends NO ✓ Margin stays: Diameter { At turned off part. 2" x 1 3/4"
Over threads

No. of threads per inch 9 ✓

Tubes: Material Steel External diameter { Plain } 2 1/2" Thickness { 89 } 5" 3/8" 1/4" No. of threads per inch 9 ✓
{ Stay } 2 1/2"

Pitch of tubes 4" x 3 5/8" ✓ Manhole compensation: Size of open shell plate 16 1/2" x 20 1/2" Section of compensating ring 18 3/8" x 1 33/64" No. of rivets and diameter of rivet holes 34 - 1 1/8"

Outer row rivet pitch at ends 10 1/2 Depth of flange if manhole flanged 3 1/4" ✓ 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 diam. stays - Inner radius of crown ✓

How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and of rivets in outer row in dome connection to shell ✓

Type of Superheater C.B. Type Supplied by J.E. Marnie Ltd. Manufacturers of { Tubes Stewart & Lloyd
Steel forgings "
Steel castings ✓

Number of elements 36 ✓ Material of tubes S.D. Steel Internal diameter and thickness of tubes 1.273" x 79

Material of headers S.D. Steel Tensile strength 26/28 Thickness 1" Can the superheater be shut off 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 3.1416 0" Are the safety valves fitted with easing gear Yes

Pressure to which the safety valves are adjusted 225 lb/p" ✓ Hydraulic test pres tubes 1500 lb/p" ✓ Headers 660 lb/p" and after assembly in place 660 lb/p" Are drain valves fitted to free the superheater from water where necessary Yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with For RICHARDSONS, WESTGARTH & Co. LIMITED.
The foregoing is a correct description,
W.E. Worsley Manufac

Dates { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith 16/10
of Survey { During erection on board vessel - - } (If not state date of approval.)
while building

Total No. of visits -

Is this Boiler a duplicate of a previous case Yes ✓ If so, state Vessel's name and Report No. R.W. 2711 "Eglessdale"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The boilers have been constructed under Special Survey & in accordance with the approved plans for a working pressure of 220 lb.
The materials & workmanship have been found good.
Upon completion the boilers were tested with an hydraulic pressure of 380 lb/p" & found sound & tight.
These boilers have been forwarded to Haverton Hill.
Boilers fitted aboard & found satisfactory under working conditions.
Safety Valves adjusted under steam to 225 lb/p" on completion & found in order with the Rule Requirements. Oil fuel burning installation examined under working conditions & found satisfactory.

Survey Fee ... £ See Rpt 4 When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute TUE 10 MAR 1942
Assigned See Mch. J.E. 17206

Clive Bell
Engineer Surveyor to Lloyd's Register of Shipping
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