

RECEIVED

DEC 1943

D.O.

Shipping Report

REPORT ON BOILERS.

No. 67860

Received at London Office

18 DEC 1943

10

When handed in at Local Office

13.12.1943

Port of Glasgow

Survey held at Glasgow

Date, First Survey 29.10.42

Last Survey 29.11.1943

(Number of Visits 25)

Gross
Tons
Net

Built at

By whom built Harland & Wolff

Yard No 12839 When built

made at

By whom made

Engine No.

When made

made at

Glasgow

By whom made Barclay Curle & Co. Ltd.

Boiler No 42/18 When made 1943

Horse Power

Owners

Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Constructors of Steel Colvilles, Ltd.

(Letter for Record S)

Heating Surface of Boilers 7248 sq ft

Is forced draught fitted

Coal or Oil fired Coal

Description of Boilers 3 Single-ended

Working Pressure 220 lb.

by hydraulic pressure to 380 lb. Date of test 14.7.43

No. of Certificate 21466

Can each boiler be worked separately Yes

Firegrate in each Boiler 54.84 sq ft

No. and Description of safety valves to each boiler 2 1/4" I.H.L. safety

each set of valves per boiler {per Rule 6.4 sq in

Are they fitted with easing gear Yes

as fitted 7.94 sq in Pressure to which they are adjusted

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

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

EX External dia. of boilers 15'-3" Length 11'-6"

Shell plates: Material S

Tensile strength 29/33 tons

ss 1 15/32" Are the shell plates welded or flanged No

Description of riveting: circ. seams {end anchor

DBS TR Diameter of rivet holes in {circ. seams 1 1/2"

{long. seams 1 1/2"

Pitch of rivets {4.07"

age of strength of circ. end seams {plate 63.1

Percentage of strength of circ. intermediate seam {plate

{rivets 46.7

{rivets

age of strength of longitudinal joint {plate 85.5

Working pressure of shell by Rules

{rivets 86

{combined 87

ss of butt straps {outer 1 1/8"

No. and Description of Furnaces in each Boiler 3 Reighton

Tensile strength 26/30 tons

Smallest outside diameter 45 1/4"

of plain part {top

Thickness of plates {crown 1 1/16"

Description of longitudinal joint welded

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

Working pressure of furnace by Rules

ates in steam space: Material S

Tensile strength 26/30 tons

Thickness 1 13/32"

Pitch of stays 20"x21"

re stays secured D.N.

Working pressure by Rules

ates: Material {front S

Tensile strength {26/30 tons

Thickness {15/16"

{back S

{25/32"

pitch of stay tubes in nests 9.7"

Pitch across wide water spaces 14"

Working pressure {front

s to combustion chamber tops: Material S

Tensile strength 28/32 tons

Depth and thickness of girder

re 2 @ 10 1/2" x 1 1/16" Length as per Rule 2'-9 17/32"

Distance apart 9 1/4"

No. and pitch of stays

3 @ 8"

Working pressure by Rules

Combustion chamber plates: Material S

e strength 26/30 tons

Thickness: Sides 1 1/16"

Back 1 1/16"

Top 1 1/16"

Bottom 1 1/16"

of stays to ditto: Sides 8"x9 1/4"

Back 8"x9 1/4"

Top 8"x9 1/4"

Are stays fitted with nuts or riveted over Auto

ng pressure by Rules

Front plate at bottom: Material S

Tensile strength 26/30 tons

ess 15/16"

Lower back plate: Material S

Tensile strength 26/30 tons

Thickness 27/32"

of stays at wide water space

Are stays fitted with nuts or riveted over Auto

ng Pressure

Main stays: Material S

Tensile strength 28/32 tons

ter {At body of stay, 3 1/4"

No. of threads per inch 6

Area supported by each stay

{Over threads

Screw stays: Material S

Tensile strength 26/30 tons

ng pressure by Rules

No. of threads per inch 9

Area supported by each stay

ter {At turned off part, 1 3/4"

{Over threads

{Over threads

{Over threads

{Over threads

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{Over threads

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Working pressure by Rules Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *1 7/8"* or Over threads

No. of threads per inch *9* Area supported by each stay Working pressure by Rules

Tubes: Material *S* External diameter { Plain *3"* Stay *3"* Thickness { *8 NG* *5/16" + 3/8"* No. of threads per inch *9*

Pitch of tubes *4 1/4" x 4 1/8"* Working pressure by Rules Manhole compensation: Size of opening

END shell plate *16" x 12"* Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged *4 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 Working pressure by Rules Thickness of crown No. and diameter

stays Inner radius of crown Working pressure by Rules

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 *Smoke tube* Manufacturers of { Tubes Steel forgings 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

the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *Yes*

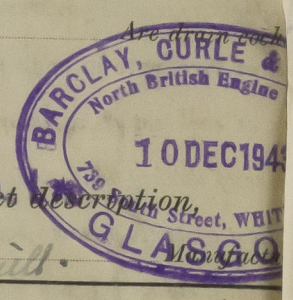
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as

Rules Pressure to which the safety valves are adjusted Hydraulic test press

tubes forgings and castings and after assembly in place *440 lb.*

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



1942 Oct 29 Nov 13 Dec 22 28 1943 Jan 15 29 Feb 18 Mar 9 19 Apr 15 May 5 14 28 Jun 8 July 7 8 14 Aug 4 5 19 Sep 2 Oct 5 Nov 29

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith *No.* while building { During erection on board vessel - - - (If not state date of approval.)

Total No. of visits *25*

Is this Boiler a duplicate of a previous case *Yes* If so, state Vessel's name and Report No. *B. Co. Bk. 41/9 46 Rpt. 66369*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. They have been sent to Messrs Bateman & Wolff Ltd. for installation in the vessel under British Corporation survey. The specification requirements have been carried out satisfactorily.*

Survey Fee ... £ 36 : 13 : } When applied for, *14 DEC 1943*
Spaⁿ per Travelling Expenses (if any) £ 9 : 3 : } When received, 19

M. J. Brown
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *GLASGOW 14 DEC 1943*
Assigned *Transmitted to Nottingham*

