

REPORT ON BOILERS.

No. 45935

Attached to 46270

Received at London Office

8 SEP 1926

26 JAN 1927

ing Report

192 When handed in at Local Office

3-9-1926

1926

Port of

Glasgow

Survey held at

Glasgow

Date, First Survey

2-2-26

Last Survey

31-8-

1926

on the

W. Homewood

(Number of Visits

9

Tons

Gross

Net

Built at

Workington

By whom built

R. Williamson & Sons

Yard No.

240

When built 1926

made at

Coatbridge

By whom made

W. Beadmore & Co. Ld

Engine No.

629

When made 1926

made at

Glasgow

By whom made

D. Rowan & Co. Ld

Boiler No.

341

When made 1926

orse Power

Owners

Port belonging to

ITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY

urers of Steel

Henschel & Sohn of Hattingen

(Letter for Record (5))

ating Surface of Boilers

1960 sq ft

Is forced draught fitted

no

Coal or Oil fired

-

Description of Boilers

one single ended

Working Pressure

200

hydraulic pressure to

350

Date of test

31-8-26

No. of Certificate

17198

Can each boiler be worked separately

✓

Firegrate in each Boiler

538 sq ft

No. and Description of safety valves to each boiler

2 Spring loaded

each set of valves per boiler

(per Rule as fitted)

59° 2 3/4 dia

Pressure to which they are adjusted

200 lb

Are they fitted with easing gear

yes

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

no

distance between boilers or uptakes and bunkers or woodwork

well clear

Is oil fuel carried in the double bottom under boilers

no

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

-

internal dia. of boilers

14' 4"

Length

10' 6"

Shell plates: Material

steel

Tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

inter.

Diameter of rivet holes in

circ. seams

F 1 3/16 B 1 3/8

long. seams

1 3/8"

Pitch of rivets

F 3-21 B 3-18

9 1/2"

Percentage of strength of circ. end seams

plate

63

rivets

43.8

Percentage of strength of circ. intermediate seam

plate

83.3

rivets

93.5

Working pressure of shell by Rules

200

No. and Description of Furnaces in each Boiler

3 Deighton corrugated

Tensile strength

26-30 tons

Smallest outside diameter

3' 6 3/16"

Thickness of plates

crown

1 1/2"

bottom

1 3/32"

Description of longitudinal joint

welded

Working pressure of furnace by Rules

200

Material

steel

Tensile strength

26-30 tons

Thickness

1 1/2"

Pitch of stays

18 1/4" x 18 3/4"

Working pressure by Rules

202

Material

front

steel

back

"

Tensile strength

26-30 tons

Thickness

3/32"

2 1/2"

Pitch of stay tubes in nests

10"

Pitch across wide water spaces

14 1/2"

Working pressure

front

202

back

208

Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

Length as per Rule

34 1/16"

Distance apart

9 3/4"

No. and pitch of stays

Working pressure by Rules

200

Combustion chamber plates: Material

steel

Thickness: Sides

11/16"

Back

3/32"

Top

11/16"

Bottom

13/16"

Are stays fitted with nuts or riveted over

nuts

Front plate at bottom: Material

steel

Tensile strength

26-30 tons

Lower back plate: Material

steel

Tensile strength

26-30 tons

Thickness

2 5/32"

Are stays fitted with nuts or riveted over

nuts

Main stays: Material

steel

Tensile strength

28-32 tons

No. of threads per inch

6

Area supported by each stay

3260" x 3740"

Screw stays: Material

steel

Tensile strength

26-30 tons

No. of threads per inch

9

Area supported by each stay

740"

Working pressure by Rules 206 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 13/4" or Over threads. 200
No. of threads per inch 9 Area supported by each stay 91 sq" Working pressure by Rules 200
Tubes: Material Iron External diameter { Plain 3 1/4" Stay 3 1/2" Thickness { 8 W. 3. 1/4 5/16 3/8 No. of threads per inch 9
Pitch of tubes 4 1/2" x 4 5/16" Working pressure by Rules 230 Manhole compensation: Size of
shell plate 19 1/2" x 15 1/2" Section of compensating ring 9 1/4" x 1 5/16" No. of rivets and diameter of rivet holes 32 @ 1 1/2"
Outer row rivet pitch at ends 9 1/2" Depth of flange if manhole flanged 3" Steam Dome: Material none
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint
Internal diameter Working pressure by Rules Thickness of crown No. and
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet hole
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be
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
Rules Pressure to which the safety valves are adjusted Hydraulic test
tubes castings and after assembly in place Are drain cocks or
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 Rowan & Co. Ltd.
Arch. H. Grierson

Dates of Survey { During progress of work in shops - - 1926 July 4-30 Aug 6-10-13-25-30-31 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - Total No. of visits 9

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good
The boiler has been constructed under special survey in accordance with Rules. It will be fitted on board the vessel in Glasgow.

This Boiler has now been properly fitted on board the s/s "Homewood," Mr. Jos. Constantine Steamship Line Ltd, Owners, of Middlesbrough. The safety valves have been adjusted under steam and thickness of washers noted to be 1/16" each.

Survey Fee ... £ 13 : 2 : When applied for, 3. 9. 1926
Travelling Expenses (if any) £ : : When received, 28. 1. 1927

L. C. Davis.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 7-SEP-1926 GLASGOW 25-JAN-1927 TUES. 8 SEP TUES. 1 FEB 1927

Assigned TRANSMIT TO LONDON

See G. R. No. 46270 FRI. 4 FEB TUES. 15 MAR

FRI. 17 AUG 1928

TUES. 17 MAY 1927

FRI. 11 FEB