

REPORT ON BOILERS.

No. 46632

11 MAY 1927

Received at London Office

Date of writing Report

192

When handed in at Local Office

5.5.

192

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

27.4.26

Last Survey

3.5.

1927

on the new steel SKENSINGTON COURT

(Number of Visits 67)

Tons { Gross
Net

Master

Built at Old Kilpatrick

By whom built Napier & Miller

Yard No 267

When built 1927

Engines made at

Glasgow

By whom made D. Rowan & Co. Ltd

Engine No. 840

When made 1927

Boilers made at

Glasgow

By whom made D. Rowan & Co. Ltd

Boiler No. 840

When made 1927

Nominal Horse Power

416

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Gutehoffnungshütte, A. G. of Oberhausen

Surveyed by V. Schiller

(Letter for Record (S) ✓)

Total Heating Surface of Boilers

7080 sq ft

Is forced draught fitted

no

Coal or Oil fired coal ✓

and Description of Boilers

three single ended

Working Pressure 180 ✓

Tested by hydraulic pressure to

320

Date of test

20.8.26

No. of Certificate

17195

Can each boiler be worked separately yes ✓

Area of Firegrate in each Boiler

64.68 sq ft

No. and Description of safety valves to each boiler

two direct spring

Area of each set of valves per boiler

per Rule 7.56 sq ft

as fitted 8.29 sq ft

Pressure to which they are adjusted

185

Are they fitted with easing gear yes ✓

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

Least distance between boilers or uptakes and bunkers or woodwork

2'-0"

Is oil fuel carried in the double bottom under boilers no ✓

Least distance between shell of boiler and tank top plating

2'-0"

Is the bottom of the boiler insulated yes ✓

Least internal dia. of boilers

15'-3 1/2"

Length

11'-3"

Shell plates: Material

steel

Tensile strength 28-30 tons

Thickness

1 1/4"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams { end OR ✓
inter. ✓

Seams

U.B.S. T.R.

Diameter of rivet holes in

circ. seams F 1 3/8" B 1 5/8"

long. seams 1 5/8"

Pitch of rivets

F 3.19 B 3.528

8 7/8"

Percentage of strength of circ. end seams

plate F 62.7 B 62.8
rivets F 45.6 B 50.4

Percentage of strength of circ. intermediate seam

plate
rivets ✓

Percentage of strength of longitudinal joint

plate 85.2
rivets 94
combined 89.1

Working pressure of shell by Rules

180

Thickness of butt straps

outer 6 1/4"
inner 1 5/8"

No. and Description of Furnaces in each Boiler

Three Mouson

Material

steel

Tensile strength

26-30 tons

Smallest outside diameter

46.156

Thickness of plain part

top
bottom

Thickness of plates

crown 3 1/4"
bottom 6 1/4"

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

182

Plates in steam space: Material

steel

Tensile strength

26-30 tons

Thickness

1 3/8"

Pitch of stays 21" x 20" ✓

Are stays secured

U.N.

Working pressure by Rules

182

Plates: Material

front steel
back "

Tensile strength

26-30 tons

Thickness

3 1/8"
3 1/2"
1 3/8"

Pitch of stay tubes in nests

10.25"

Pitch across wide water spaces

14 1/4"

Working pressure

front 187
back 181

Plates to combustion chamber tops: Material

steel

Tensile strength

28-30 tons

Depth and thickness of girder

Size of fire

2 @ 9" x 8"

Length as per Rule

34.56"

Distance apart

10 1/2"

No. and pitch of stays

Size of fire

3 @ 8 1/4"

Working pressure by Rules

181

Combustion chamber plates: Material

steel

Tensile strength

26-30 tons

Thickness: Sides

1 1/8"

Back

1 1/8"

Top

1 1/8"

Bottom

1 1/8"

Size of stays to ditto: Sides

10 1/4" x 8 1/4"

Back

9 5/8" x 8 3/4"

Top

10 1/4" x 8 1/4"

Are stays fitted with nuts or riveted over nuts ✓

Working pressure by Rules

191

Front plate at bottom: Material

steel

Tensile strength

26-30 tons

Thickness

3 1/8"

Lower back plate: Material

steel

Tensile strength

26-30 tons

Thickness

2 7/8"

Pitch of stays at wide water space

13 3/8"

Are stays fitted with nuts or riveted over nuts

nuts

Working Pressure

194

Main stays: Material

steel

Tensile strength

28-30 tons

At body of stay, or Over threads

3"

No. of threads per inch

6

Area supported by each stay

4200"

Working pressure by Rules

186

Screw stays: Material

steel

Tensile strength

26-30 tons

At turned off part, or Over threads

1 5/8"

No. of threads per inch

9

Area supported by each stay

84.60"

Type of Superheater	none		Manufacturers of	Tubes 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 and	
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 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				

The foregoing is a correct description,
for David Rowan & Co. ^{Inc} - Manufacturer.
Arch. W. Grierson.

Dates of Survey while building	During progress of work in shops - - -	See Accompanying Machinery report	Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
	During erection on board vessel - - -		Total No. of visits 67

The materials and workmanship are good.

The boilers have been constructed under special survey in accordance with the Rules. They have been satisfactorily fitted in the vessel and their safety valves adjusted under steam.

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Schwartz

Committee's Minute **GLASGOW 10 MAY 1927**

Assigned See accompanying mach.
report.