

REPORT ON BOILERS.

No. 57644

Received at London Office

11 NOV 1936

17 DEC 1936

Date of writing Report

19

When handed in at Local Office

7. 11. 36

Port of

Glasgow

No. in
Reg. Book.

Survey held at Glasgow

Date, First Survey

29. 4. 36

Last Survey

3-11-

1936

on the new steel S/S "JERSEY. QUEEN".

(Number of Visits 36)

Tons

Gross

Net

Master

Built at

Burntisland

By whom built

Burntisland S/B Co

Yard No. 204

When built 1936

Engines made at

Glasgow

By whom made

David Rowan & Co Ltd

Engine No. 998

When made 1936

Boilers made at

Glasgow

By whom made

David Rowan & Co Ltd

Boiler No. 998

When made 1936

Nominal Horse Power

129

Owners

James & Hannah Adams S/B Co Ltd

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Plates by Steel Co. of Scotland Ltd

Bars by A. Schiller Ltd

(Letter for Record (S))

Total Heating Surface of Boilers

1953 sq ft

Is forced draught fitted

yes

Coal or Oil fired

coal

No. and Description of Boilers

one single ended

Working Pressure 200

Tested by hydraulic pressure to

350

Date of test

22-9-36

No. of Certificate

19812

Can each boiler be worked separately

-

Area of Firegrate in each Boiler

44 5/8 sq ft

No. and Description of safety valves to each boiler

Two direct spring

Area of each set of valves per boiler

per Rule 11-35

as fitted 11-88

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

yes

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

-

Smallest distance between boilers or uptakes and bunkers

on woodwork - 26"

Is oil fuel carried in the double bottom under boilers

yes

Smallest distance between shell of boiler and tank top

of floor - 14"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

14' 9"

Length

10' 6"

Shell plates: Material

steel

Tensile strength 29.33 tons

Thickness

1 9/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

UTR

Long. seams

UTB S TR

Diameter of rivet holes in

circ. seams

F 1 1/4" B 1 3/8"

Pitch of rivets

F 3.209 B 3.68"

Pitch of rivets

9 7/16"

Percentage of strength of circ. end seams

plate F 61 B 62.6

rivets F 52.3 B 50

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85.2

rivets 92.1

combined 88.9

Working pressure of shell by Rules

201

Thickness of butt straps

outer 3 1/2"

inner 1 3/32"

No. and Description of Furnaces in each Boiler

Three Deighton

Material

steel

Tensile strength

26-30 tons

Smallest outside diameter

3' 7 5/16"

Length of plain part

top

bottom

Thickness of plates

crown 1 9/32"

bottom 3/32"

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

200

End plates in steam space: Material

steel

Tensile strength

26-30 tons

Thickness

1 1/4"

Pitch of stays

19 1/4" x 19"

How are stays secured

WN

Working pressure by Rules

200

Tube plates: Material

front steel

back

Tensile strength

26-30 tons

Thickness

2 1/2"

2 5/32"

Mean pitch of stay tubes in nests

10 7/32"

Pitch across wide water spaces

14 1/4"

Working pressure

front 202

back 209

Girders to combustion chamber tops: Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

at centre

2 @ 8 3/8" x 7 1/8"

Length as per Rule

2' - 7 7/32"

Distance apart

9 1/2"

No. and pitch of stays

in each

3 @ 7 1/2"

Working pressure by Rules

201

Combustion chamber plates: Material

steel

Tensile strength

26-30 tons

Thickness: Sides

2 3/32"

Back

1 1/6"

Top

2 3/32"

Bottom

2 3/32"

Pitch of stays to ditto: Sides

10 1/8" x 8 3/4"

Back

9 1/4" x 8 1/4"

Top

9 1/2" x 7 1/2"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

203

Front plate at bottom: Material

steel

Tensile strength 26-30 tons

Thickness

2 9/32"

Lower back plate: Material

steel

Tensile strength

26-30 tons

Thickness

5 1/4"

Pitch of stays at wide water space

13 1/2"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

205

Main stays: Material

steel

Tensile strength 28-32 tons

Diameter

At body of stay, 3"

or

Over threads

No. of threads per inch

6

Area supported by each stay

389 sq in

Working pressure by Rules

202

Screw stays: Material

steel

Tensile strength 26-30 tons

Diameter

At turned off part, 1 9/8"

or

Over threads

1 3/4"

No. of threads per inch

9

Area supported by each stay

76.3 sq in & 88 sq in

Working pressure by Rules 200 & 205 14 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 7/8" or Over threads 1 7/8" No. of threads per inch 9 Area supported by each stay 93.5 sq. Working pressure by Rules 227 Tubes: Material Iron External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 8 W.S. 1/4" 7/16" 3/8" No. of threads per inch 9 Pitch of tubes 4 1/2" x 4 3/8" Working pressure by Rules 230 Manhole compensation: Size of opening in shell plate 15 1/2" x 19 1/2" Section of compensating ring 9 1/4" x 1 3/32" No. of rivets and diameter of rivet holes 32 @ 1 3/8" Outer row rivet pitch at ends 9 9/16" 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 { Plate Rivets Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays Inner radius of crown Working pressure by Rules How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

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

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
For David Rowan & Co. Ltd. Manufacturer.
Archd. W. Grierson.

Dates of Survey { During progress of work in shops - - while building { During erection on board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith yes
(If not state date of approval.)

SEE ACCOMPANYING MACHINERY REPORT.

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. London Queen. G.L. R. No 53254

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. It is being sent to Burntisland to be fitted in the vessel.

7/11/36

This boiler has been efficiently fitted on board, examined under steam & safety valves adjusted to 200 lbs.

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

L. Davis

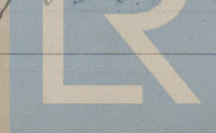
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10 NOV 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.

TUE. 22 DEC 1936

See Lth. Mackay © 2020
J. E. 19232



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