

Rpt. 5.

REPORT ON BOILERS.

No. 24427

TUES. SEP 18 1906

Description of Safety

No. in Reg. Book.

Survey held at

Port of Glasgow

Received at London Office

Date, first Survey

18 April

Last Survey

8 Sept 1906

(Number of Visits)

on the

S. S. QUEEN.

Gross Tons

Net Tons

Rivets

Plates

Master

Built at

Port Glasgow

By whom built

Russell & Co

When built

1906.

Engines made at

By whom made

when made

Boilers made at

Glasgow.

By whom made

Dunsmuir & Jackson Ltd.

when made

1906.

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel(Letter for record ☒) Total Heating Surface of Boilers 11324 sq ft Is forced draft fitted no No. and Description of

Boilers One single ended Working Pressure 125 lbs Tested by hydraulic pressure to 250 lbs Date of test 3/8/06

No. of Certificate 8323 Can each boiler be worked separately ☒ Area of fire grate in each boiler 36.8 sq ft No. and Description of

safety valves to each boiler 2 Patent spring Area of each valve 5.94 sq in Pressure to which they are adjusted 130 lbs.

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no.

Smallest distance between boilers or uptakes and bunkers or woodwork 11 in Mean dia. of boilers 11.6 in Length 10.6 in

Material of shell plates steel Thickness 3/4 in Range of tensile strength 28 to 32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double long. seams treble Diameter of rivet holes in long. seams 1 1/8 in Pitch of rivets 5 3/8 in

Lap of plates or width of butt straps 7 3/4 in Per centages of strength of longitudinal joint rivets 74.4 plate 79 Working pressure of shell by

rules 125 lbs Size of manhole in shell 16 in x 12 in Size of compensating ring the heels No. and Description of Furnaces in each

boiler 2 Plain Material steel Outside diameter 3.9 7/8 in Length of plain part top 6.2 bottom 6.2 Thickness of plates crown 5/8 bottom 5/8

Description of longitudinal joint welded No. of strengthening rings 1 part Working pressure of furnace by the rules 130 lbs Combustion chamber

plates: Material steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 1/2 in Pitch of stays to ditto: Sides 8 in x 10 in Back 8 1/2 in x 9 in

Top 8 1/2 in x 10 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 142 lbs Material of stays steel Area at

smallest part 1.28 in Area supported by each stay 76.5 in Working pressure by rules 128 End plates in steam space: Material steel Thickness 1/2 in

Pitch of stays 16 in x 16 3/4 in How are stays secured nuts Working pressure by rules 137 Material of stays steel Area at smallest part 4.3 in

Area supported by each stay 268 in Working pressure by rules 160 lbs Material of Front plates at bottom steel Thickness 3/4 in Material of

Lower back plate steel Thickness 3/4 in Greatest pitch of stays 15 in x 8 1/2 in Working pressure of plate by rules 131 lbs Diameter of tubes 3 1/4 in

Pitch of tubes 4 1/2 in x 4 3/8 in Material of tube plates steel Thickness: Front 2/3 in Back 1/16 in Mean pitch of stays 11 1/8 in Pitch across wide

water spaces 15 in Working pressures by rules 130 lbs Girders to Chamber tops: Material iron Depth and thickness of

girder at centre 8 in x 7 in - 7/8 in Length as per rule 2.7 3/4 in Distance apart 8 1/2 in Number and pitch of Stays in each 2 - 10 in

Working pressure by rules 171 lbs Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

separately ☒ Diameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivetholes ☒ Pitch of rivets ☒ Working pressure of shell by rules ☒ Diameter of flue ☒ Material of flue plates ☒ Thickness ☒If stiffened with rings ☒ Distance between rings ☒ Working pressure by rules ☒ End plates: Thickness ☒ How stayed ☒Working pressure of end plates ☒ Area of safety valves to superheater ☒ Are they fitted with easing gear ☒

VERTICAL DONKEY BOILER No. none Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,
For DUNSMUIR & JACKSON, Limited.

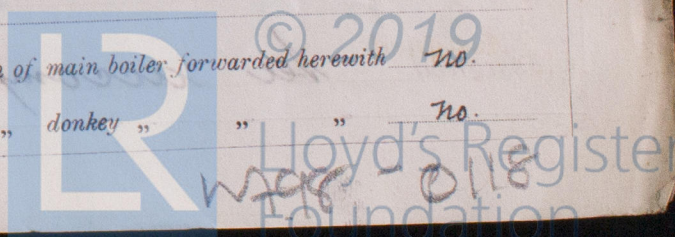
Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

See accompanying report

Is the approved plan of main boiler forwarded herewith no.

" " " donkey " " " no.



GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. See the report on the

machinery attached to this

"QUEEN"

James & Jackson Ltd.

OR DONKEY

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Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee... £ :
Special ... £ :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 19
When received, 19

Committee's Minute

Glasgow 17 SEP 1908

J. W. Dimmock.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Assigned

See accompanying report.



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Lloyd's Register
Foundation