

REPORT ON BOILERS.

No. 26453

TUES. 14 APR 1908

Port of

Glasgow

Received at London Office

No. in Survey held at
Reg. Book.
on the

Glasgow

Date, first Survey

1st May 1907

Last Survey

11th Sep 1907

(Number of Visits)

Tons

Gross

Net

Master

Built at

Troon

By whom built

Aiba & B Co

When built

1908

Engines made at

Troon

By whom made

Aiba & B Co

when made

1908

Boilers made at

Glasgow

By whom made

Messrs Dunsmuir & Jackson Ltd (320)

when made

1907

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—~~MAIN~~ AUXILIARY ~~OR~~ ~~DONKEY~~

Manufacturers of Steel

Steel Co of Scotland, Clydebridge

(Letter for record

Total Heating Surface of Boilers

4436

Is forced draft fitted

No. and Description of

Boilers

One Single Ended

Working Pressure

170

Tested by hydraulic pressure to

340

Date of test

11-9-07

No. of Certificate

9142

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

S

Thickness

15/16"

Range of tensile strength

28-32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

DR

long. seams

ARL

Diameter of rivet holes in long. seams

13/16"

Pitch of rivets

5-3/8"

Lap of plates on width of butt straps

10-1/2"

Per centages of strength of longitudinal joint

rivets

77-5%

Working pressure of shell by

rules

173

Size of manhole in shell

16" x 12"

Size of compensating ring

McNeill

No. and Description of Furnaces in each

boiler

2 Morrison

Material

S

Outside diameter

3-13/4"

Length of plain part

top

bottom

Thickness of plates

crown

29/64"

bottom

1/64"

Description of longitudinal joint

weld

No. of strengthening rings

1

Working pressure of furnace by the rules

172

Combustion chamber

plates: Material

S

Thickness: Sides

7/8"

Back

7/8"

Top

7/8"

Bottom

13/16"

Pitch of stays to ditto: Sides

9-8 1/2"

Back

8-4 1/2"

Area

Diameter at

Top

8-1/2" x 9"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

176

Material of stays

S

Diameter at

smallest part

98-27/8"

Area supported by each stay

76-5"

Working pressure by rules

174

End plates in steam space: Material

S

Thickness

1/32"

Pitch of stays

8-1/2" x 1-3/8"

How are stays secured

DN

Working pressure by rules

171

Material of stays

S

Diameter at smallest part

5-26/64"

Area supported by each stay

300"

Working pressure by rules

173

Material of Front plates at bottom

S

Thickness

3/32"

Material of

Lower back plate

S

Thickness

27/32"

Greatest pitch of stays

13-1/2"

Working pressure of plate by rules

178

Diameter of tubes

3"

Pitch of tubes

4-1/4"

Material of tube plates

S

Thickness: Front

3/32"

Back

3/4"

Mean pitch of stays

10-1/2"

Pitch across wide

water spaces

13-3/4" x 14"

Working pressures by rules

178

Girders to Chamber tops: Material

Iron

Depth and thickness of

girders

at centre

8-7/8" (2)

Length as per rule

2-4"

Distance apart

9"

Number and pitch of Stays in each

2 at 8-1/2"

Working pressure by rules

197

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

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.

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

James Fletcher, Manufacturer.

Dates

of Survey

while

building

During progress of

work in shops - - -

During erection on

board vessel - - -

Total No. of visits

1907. May 1. 8. 27. Jan 7. 11. 15. 19. July 23. 25. Aug. 2. 5. 9. 10. 14. 26. Sep. 3. 5. 8. 11.

19

Is the approved plan of main boiler forwarded herewith

" donkey "

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1948

Lloyd's Register
Foundation

No. in
Reg. Book.
Master
Engines m
Boilers m
Registered
Nom. Hors

ENGINE

Dia. of Cy
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Thickness
long, sear
Per centa
Size of co
Length of
Working
Pitch of
Material
Material
Diameter
Thickness
Diameter
Pitch a
thickness
Working
separately
holes
If stiffen
Working

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

This Boiler has been built under Special Survey in accordance with the approved plan. The workmanship & material are of good quality. This Boiler will be fitted on board at once.

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

Committee's Minute

Done paid by EMH
Glasgow

13 APR 1908

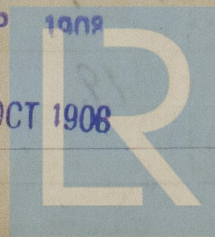
Assigned

See attached report

Wm Gordon-Musclun
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 11 SEP 1908

FRI. 30 OCT 1908



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