

REPORT ON BOILERS.

No. 35459

Received at London Office

WED. 22 SEP. 1915

Date of writing Report

191

When handed in at Local Office

191

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

Last Survey

191

Reg. Book.

184 on the

S/S "Dara"

(Number of Visits)

Gross
Tons
Net

Master

Built at Pt. Glasgow

By whom built

Russell & Co

When built 1915

Engines made at

Glasgow

By whom made

Dunsmuir & Jackson Ltd (452)

When made

1915

Boilers made at

ditto

By whom made

ditto

When made

1915

Registered Horse Power

Owners Bombay & Persia S & Co Ltd

Port belonging to

Liverpool

MULTITUBULAR BOILERS

~~MAIN, AUXILIARY OR~~

DONKEY.

Manufacturers of Steel

James D. Steel Co of Scotland & Dundee, Colville

(Letter for record)

Total Heating Surface of Boilers

1079 sq ft

Is forced draft fitted

No

No. and Description of

Boilers one single ended

Working Pressure 100

Tested by hydraulic pressure to 200

Date of test 24-5-15

No. of Certificate

13/51

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

25 sq ft

No. and Description of

safety valves to each boiler

Double spring

Area of each valve 7.07 sq in

Pressure to which they are adjusted 105

Are they fitted with easing gear

No

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

Mean dia. of boilers 10-0 1/16" Length 9-6"

Material of shell plates

S

Thickness 1 1/16"

Range of tensile strength 28/32

Are the shell plates welded or flanged

—

Descrip. of riveting: cir. seams

DR.

long. seams TR Lap.

Diameter of rivet holes in long. seams 1 1/16"

Pitch of rivets 4"

Lap of plates

width of butt straps 4 3/8"

Per centages of strength of longitudinal joint

rivets 82
plate 73.4%

Working pressure of shell by

rules 107

Size of manhole in shell

16 1/2"

Size of compensating ring

8 in dia

No. and Description of Furnaces in each

boiler 2 plain

Material S

Outside diameter 3-4 1/8"

Length of plain part

top 6-3
bottom 6-7 1/2"

Thickness of plates

crown 9 1/16"
bottom 9 1/16"

Description of longitudinal joint

weld.

No. of strengthening rings

Working pressure of furnace by the rules 103

Combustion chamber

plates: Material S

Thickness: Sides 17/32"

Back 17/32"

Top 17/32"

Bottom 27/32"

Pitch of stays to ditto: Sides 9x9"

Back 9 3/8 x 8 7/8"

Pitch of stays

Sides 9x9"

Back 9 3/8 x 8 7/8"

Area

Top 9 1/2"

If stays are fitted with nuts or riveted heads

nuts.

Working pressure by rules 104

Material of stays

Iron

Diameter at

smallest part 1 1/16"

Area supported by each stay

83 sq in

Working pressure by rules 103

End plates in steam space: Material S

Thickness

3/4"

Pitch of stays

16 x 14 3/4"

How are stays secured

DN

Working pressure by rules 106

Material of stays

S

Area

Diameter at smallest part

2.66

Material of

Area supported by each stay

236 sq in

Working pressure by rules 118

Material of Front plates at bottom

S

Thickness

3/4"

Material of

Lower back plate

S

Thickness 1 1/16"

Greatest pitch of stays 14 1/2 x 8 7/8"

Working pressure of plate by rules 120

Diameter of tubes

3

Pitch of tubes

4 1/2 x 4 3/16"

Material of tube plates

S

Thickness: Front 3/4"

Back 1 1/16"

Mean pitch of stays 12 9/16"

Pitch across wide

water spaces

14"

Working pressures by rules 108

Girders to Chamber tops: Material

Iron

Depth and thickness of

girder at centre

6 x 3 1/4 (2)

Length as per rule

2 2 25/32

Distance apart

8 1/2"

Working pressure by rules

109

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

DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description,

James Flecker

Director.

Manufacturer.

Dates

During progress of

of Survey

work in shops - -

while

During erection on

building

board vessel - - -

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

GENERAL REMARKS

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

This boiler is a new built machine

Special Survey in accordance with the approved plan & the workmanship & material are of good quality.

This Report accompanies that of the Machinery

Survey Fee

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Committee's Minute

GLASGOW 21 SEP. 1915

Assigned See accompanying Machinery Report

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



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Lloyd's Register
W553-0168
Foundation