

REPORT ON MACHINERY.

No. 22824

Port of

Glasgow

Received at London Office

10

No. in Survey held at

Paisley

Date, first Survey

17th March

Last Survey

22nd April 1905

Reg. Book.

(Number of Visits 6)

Tons { Gross
Net

Master

Built at

Campbelltown

By whom built

Campbelltown & B Co

When built

1905

Engines made at

Glenoch

By whom made

J & Kincaid & Co

when made

1905

Boilers made at

Paisley

By whom made

A F Craig & Co (183645)

when made

1905

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule
as fittedMaterial of
screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

in the propeller boss If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

Dia. of Tunnel shaft

as per rule
as fitted

Dia. of Crank shaft journals

as per rule
as fitted

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

In Hold, &c.

No. of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel

Are the blow off cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record (S))

Total Heating Surface of Boilers

2100 #

Is forced draft fitted

No. and Description of Boilers

Two Single Ended

Working Pressure

165

Tested by hydraulic pressure to

330 lbs

Date of test 22/4/05 Can each boiler be worked separately

Area of fire grate in each boiler

36.45

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

11'6"

Length

10'6"

Material of shell plates

slut

Thickness

7/16"

Range of tensile strength

28600

Are they welded or flanged

no

Descrip. of riveting: cir. seams

8 R L

long. seams

8 R S

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

6 1/2"

Lap of plates or width of butt straps

13 3/4"

Per centages of strength of longitudinal joint

rivets 88.7

plate 85.7

Working pressure of shell by rules

168 lbs

Size of manhole in shell

16x12"

Size of compensating ring

7/16x7"

No. and Description of Furnaces in each boiler

2 Duglon

Material

slut

Outside diameter

3'6 1/4"

Length of plain part

top 5"

bottom 5"

Thickness of plates

crown 3 1/2"

bottom 3 1/2"

Description of longitudinal joint

weld

No. of strengthening rings

—

Working pressure of furnace by the rules

165

Combustion chamber plates: Material

slut

Thickness: Sides

9/16"

Back

7/8"

Top

9/16"

Bottom

7/8"

Pitch of stays to ditto: Sides

7x9"

Back

8 1/2x9 1/2"

Top

7x9"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

167 lbs

Material of stays

slut

Diameter at smallest part

1 1/4"

Area supported by each stay

81"

Working pressure by rules

174

End plates in steam space:

Material

slut

Thickness

1 1/8"

Pitch of stays

16 1/4x18"

How are stays secured

D. nuts

Working pressure by rules

168

Material of stays

slut

Diameter at smallest part

6 3/32"

Area supported by each stay

300"

Working pressure by rules

210

Material of Front plates at bottom

slut

Thickness

13/16"

Greatest pitch of stays

14 1/2"

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4"

Material of tube plates

slut

Thickness: Front

13/16"

Back

13/16"

Mean pitch of stays

11 7/8"

Pitch across wide water spaces

14 1/2"

Working pressures by rules

168

Girders to Chamber tops: Material

slut

Depth and

thickness of girder at centre

9 3/4x12"

Length as per rule

29 1/2"

Distance apart

9"

Working pressure by rules

165

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

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

Lloyd's Register

Foundation

W 429-0137

DONKEY BOILER—

No.

Description

Two

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

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

Thickness of shell crown plates

Rivets 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

Thickness of furnace crown plates

Stayed by

Working pressure of shell by rules

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

W. L. Smith

Manufacturer.

Dates of Survey while building

During progress of work in shops—
During erection on board vessel—
Total No. of visits

1905: Mar. 17, 22, 28 Apr. 12, 17, 22

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

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

These boilers have been constructed under Special Survey & are of good materials & workmanship. They have been sent to Brunner & Co. to be fitted on board.

The amount of Entry Fee..

Special

Donkey Boiler Fee

Travelling Expenses (if any) £

When applied for,

When received,

Committee's Minute

Glasgow 29 MAY 1905

Assigned

See accompanying Gen. Rept. No. 14305.

H. L. Smith
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Certificate (if required) to be sent to

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

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