

REPORT ON MACHINERY.

Port of

Glasgow

Received at London Office

18

No. in
Reg. Book.

Survey held at

Supplementary Report

Date, first Survey

Last Survey

18

on the donkey hailer.

"S.S. Pisa"

(Number of Visits)

Tons { Gross
Net

Master

Built at

By whom built

When built

Engines made at

By whom made

when made

Boilers made at

Glasgow

By whom made

A. Stephen & Son

when made 1896

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Diameter of Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

as per rule

Diameter of Tunnel shaft

as per rule

Diameter of Crank shaft journals

Diameter of Crank pin

Size of Crank webs

Diameter 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 Holds, &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

993 sq ft

Is forced draft fitted

no

No. and Description of Boilers

one return tubular

Working Pressure

80 lbs

Tested by hydraulic pressure to

160 lbs

Date of test

26.11.96

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

32 sq ft

No. and Description of safety valves to

each boiler

two spring loaded

Area of each valve

8.95 sq in

Pressure to which they are adjusted

80 lbs

Are they fitted

with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

in deckhouse

Mean diameter of boilers

132" inside

Length

9' 0 1/2"

Material of shell plates

Steel

Thickness

5/8"

Description of riveting: circum. seams

lap 2 knots

long. seams

lap 4 knots

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

4 1/8"

Lap of plates or width of butt straps

6 1/2"

Per centages of strength of longitudinal joint

rivets 79

plate 78.8

Working pressure of shell by rules

88.5

Size of manhole in shell

12 x 16"

Size of compensating ring

McNeil

No. and Description of Furnaces in each boiler

2 plain taper

Material

Steel

Outside diameter

41" front

Length of plain part

top 36 1/2"

Thickness of plates

crown 3 1/32"

bottom 3 1/32"

Description of longitudinal joint

Double Butt straps

No. of strengthening rings

none

Working pressure of furnace by the rules

108 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

7/16"

Back

9/16"

Top

7/16"

Bottom

Pitch of stays to ditto: Sides

7 7/8"

Back

7 7/8"

Top

7 7/8 x 1/2"

stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

87 lbs

Material of stays

Steel

Diameter at smallest part

80 sq in

Area supported by each stay

62 sq in

Working pressure by rules

103 lbs

End plates in steam space:

Material

Steel

Thickness

13/32"

Pitch of stays

15 1/4"

How are stays secured

Double nuts

Working pressure by rules

99 lbs

Material of stays

Steel

Diameter at smallest part

2' 10" sq in

Area supported by each stay

232 sq in

Working pressure by rules

87.5 lbs

Material of Front plates at bottom

Steel

Thickness

1 1/16"

Material of Lower back plate

Steel

Thickness

5/8"

Greatest pitch of stays

7 7/8"

Working pressure of plate by rules

250 lbs

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/8" x 4 3/8"

Material of tube plates

Steel

Thickness: Front

1/16"

Back

1/16"

Mean pitch of stays

10 1/2"

Pitch across wide water spaces

14 1/4"

Working pressures by rules

154 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

5" x 2 x 5/8"

Length as per rule

26 1/2"

Distance apart

7 1/2"

Number and pitch of Stays in each

2 x 7 7/8"

Working pressure by rules

84 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 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

14892 gls.

DONKEY BOILER— Description

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
Diameter of donkey boiler Length Material of shell plates Thickness
Description of riveting long. seams Diameter 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 Radius of do. No. of Stays to do.
Plates
Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description 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,

Manufacturer.

Aly Stephen Hors.

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

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

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 £	:	:18.....
Donkey Boiler Fee £	:	:	When received.
Travelling Expenses (if any) £	:	:18.....

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

Committee's Minute

FRI 1 JAN 1897

Assigned



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Foundation