

REPORT ON MACHINERY.

No. 12566

THURS. 18 NOV 1893

Port of Glasgow

Received at London Office

No. in Survey held at Renfrew
eg. Book.

Date, first Survey 29th May

Last Survey 14th Nov^r 1893

on the

P. S. "Hutton" (Woolwich Ferry)

Tons { Gross 554
Net 256

Master

Rhue

Built at

Renfrew

By whom built

Simons & Co

When built

1893

Engines made at

Renfrew

By whom made

Simons & Co

when made

1893

Boilers made at

Renfrew

By whom made

Simons & Co

when made

1893

Registered Horse Power

600 95

Owners

London County Council

Port belonging to

London

Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

Simple expansion diagonal

No. of Cylinders

two pairs

Diameter of Cylinders

33"

Length of Stroke

36"

Revolutions per minute

Diameter of Screw shaft

as per rule simple
as fitted 9 1/2"

Diameter of Tunnel shaft

as per rule None
as fitted

Diameter of Crank shaft journals

9"

Diameter of Crank pin

9"

Size of Crank webs

7 x 11

Diameter of Wheel

14 1/2"

Pitch of screw

—

No. of flats 8

State whether moveable

yes

Total surface

each wheel 126

No. of Feed pumps

independent donkey

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

independent

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

four

Sizes of Pumps

three of 3 1/2 x 5, one 4 x 5

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

Engine Room

two inch, two inch, two inch

Holds, &c.

2"

No. of bilge injections

two

Connected to condenser, or to circulating pump

cu. ft.

Is a separate donkey suction fitted in Engine room & size one 2"

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

none

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

yes

Are they Valves or Cocks

both

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

yes

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

yes

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

yes

How are they protected

—

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

yes

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

yes

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

before launching

Is the screw shaft tunnel watertight

none

Is it fitted with a watertight door

—

BOILERS, &c.—

(Letter for record S)

Total Heating Surface of Boilers

2644

No. and Description of Boilers

Two Navy type

Working Pressure

40 lbs

Tested by hydraulic pressure to

80 lbs

Date of test

14/9/93

Can each boiler be worked separately

yes

Area of fire grate in each boiler

45

No. and Description of safety valves to

each boiler

two spring

Area of each valve

15.9

Pressure to which they are adjusted

40 lbs

Are they fitted

with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

stand clear

Mean diameter of boilers

108

Length

17' 3"

Material of shell plates

Steel

Thickness

7/16

Description of riveting: circum. seams

Lap 1 Rivet long. seams

Lap 2 Rivets

Lap of plates or width of butt straps

3 3/4

Diameter of rivet holes in long. seams

13/16

Pitch of rivets

3"

Per centages of strength of longitudinal joint

67

Working pressure of shell by rules

76.5

Size of manhole in shell

12 x 16

Size of compensating ring

5" x 1/2

No. and Description of Furnaces in each boiler

two flanged

Material

Steel

Outside diameter

43"

Length of plain part

3 1/2'

Thickness of plates

3/8

Description of longitudinal joint

welded

No. of strengthening rings

one

Working pressure of furnace by the rules

91

Combustion chamber plates: Material

Steel

Thickness: Sides

7/16

Back

none

Pitch of stays to ditto: Sides

9 1/8 x 9 1/2

Back

9 1/8 x 9 1/2

Top

9 1/8 x 9 1/2

If stays are fitted with nuts or riveted heads

rivet heads

Working pressure by rules

47 1/2

Material of stays

iron

Diameter at smallest part

6 1/2

Area supported by each stay

91.3

Working pressure by rules

40

End plates in steam space:

—

Material

Steel

Thickness

7/8

Pitch of stays

15"

How are stays secured

double nuts & washers

Working pressure by rules

82

Material of stays

Iron

Material of Front plates at bottom

Steel

Thickness

7/8

Material of Lower back plate

Steel

Thickness

7/8

Diameter of tubes

3"

Pitch of tubes

4"

Material of tube plates

Steel

Thickness: Front

7/16

Back

7/16

Mean pitch of stays

12

Pitch across wide water spaces

12"

Working pressures by rules

118, 101

Girders to Chamber tops: Material

Steel

Depth and

—

thickness of girder at centre

9 x 2 x 7/8

Length as per rule

47

Distance apart

9 1/4

Number and pitch of Stays in each

4 x 9 1/2

Working pressure by rules

69

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

—

Pitch of rivets

—

Working pressure of shell by rules

—

Diameter of flue

—

12566 gts.

DONKEY BOILER— Description *None*

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. _____
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:— *As required by the Rules.*

The foregoing is a correct description,

Manufacturer.

Wm Simons & Co

General Remarks (State quality of workmanship, opinions as to class, &c. *These engines and boilers were built under the conditions of Special Survey and have been securely fitted on board and satisfactorily tested.*

In my opinion this vessel is eligible for the record + L.M.C. 11.93.

*It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 11.93*

16/11/93

Certificate (if required) to be sent to *Glasgow*

The amount of Entry Fee.. £ 1 : " : " When applied for.
Special £ 14 : 5 : " 15/11/93
Donkey Boiler Fee £ " : " : " When received.
Travelling Expenses (if any) £ " : " : " 28/11/93

Committee's Minute

FRI 17 NOV 1893

Assigned

+ L.M.C. 11.93

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



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Foundation