

REPORT ON MACHINERY.

Port of *London*No. in Survey held at *London*

Reg. Book.

Date, first Survey *October 15th 1894*

Received at London Office

Last Survey *31st May 1895*(Number of Visits *12*)

on the

Steam Tug "Luetta"

Tons

Gross *42.51*Net *6.95*

When built

1895-

Master

Built at

Leamington

By whom built

A. W. Robertson & Co.

Engines made at

Glasgow & Co. Engineers

By whom made

A. W. Robertson & Co.

when made

1895-

Boilers made at

Glasgow

By whom made

Messrs. Hutton & Son

when made

1894

Registered Horse Power

24

Owners

A. W. Robertson & Co.

Port belonging to

London

Nom. Horse Power as per Section 28

ENGINES, &c.

Description of Engines

Compound Surface Condensing

No. of Cylinders

Two

Diameter of Cylinder

12" + 24"

Length of Stroke

18"

Revolutions per minute

1140

Diameter of Screw shaft

as per rule *4 7/8"*

Diameter of Tunnel shaft

as fitted *4 7/8"*

Diameter of Crank shaft journals

4 7/8"

Diameter of Crank pin

4 7/8"

Size of Crank webs

X

Diameter of screw

5-9"

Pitch of screw

9-0"

No. of blades

three

State whether moveable

No.

Total surface

1709 sq. ft.

No. of Feed pumps

one

Diameter of ditto

2 1/8"

Stroke

9"

Can one be overhauled while the other is at work

—

No. of Bilge pumps

one

Diameter of ditto

2 1/8"

Stroke

9"

Can one be overhauled while the other is at work

—

No. of Donkey Engines

one

Sizes of Pumps

2" ram - 4" stroke

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

In Engine Room

one - 1 1/2"

In Holds, &c.

one - 1 1/2" in fore cabin & one - 1 1/2" in

No. of bilge injections

one

Connected to

circulating pump

Is a separate donkey suction fitted in Engine room & size

Yes 1-1 1/2"

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

Yes

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 the discharge pipes above or below the deep water line

above

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

What pipes are carried through the bunkers

None

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

12/3/95

Is the screw shaft tunnel watertight

None

Is it fitted with a watertight door

No.

worked from

—

BOILERS, &c.

(Letter for record)

Total Heating Surface of Boilers

No. and Description of Boilers

Working Pressure

120 lb.

Tested by hydraulic pressure to

Date of test

Can each boiler be worked separately

—

Area of fire grate in each boiler

246 sq. ft.

No. and Description of safety valves to

each boiler

one pair Adams spring loaded 3" dia.

Area of each valve

7 sq. in.

Pressure to which they are adjusted

120 lb.

Are they fitted

with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers

3'

Mean diameter of boilers

Length

Material of shell plates

Thickness

Description of riveting: circum. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

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

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Foundation

LON 705-0325

56598 ton

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 closing 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 _____ 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:—

Two top end bolts & nuts; two bottom end bolts & nuts.
Two main bearing studs & nuts; six coupling bolts & nuts
six Condenser tubes one set feed & bridge valve; assorted bolts
& nuts and assorted iron—

The foregoing is a correct description,

Manufacturer.

H. W. Roberts

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

The above machinery has been specially surveyed and the material is of good quality and workmanship of first class condition and, in my opinion, eligible to be classed as **L.M.C. 5.95**. The boiler has been built under special survey at Glasgow and the safety valves of same adjusted under steam to a working pressure of 120 lbs. per sq. in.

It is submitted that
this vessel is eligible for

THE RECORD. + L M C 5, 95

J. J. R.

7.6.95

Certificate (if required) to be sent to _____

The amount of Entry Fee. . . £ 1 : . . . When applied for, _____

Special £ 5 : 6 : 8 7.6.95

Donkey Boiler Fee £ : : : When received, _____

Travelling Expenses (if any) £ : : : 10.6.95

A. Elliott

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

Committee's Minute

TUES 11 JUN 1895

Assigned

+ L M C 5.95



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