

REPORT ON MACHINERY. 48012*

Port of *London*

TUESDAY 31 JAN 1888

No.

No. in Survey held at *Bonley by Bow* Date, first Survey *10th Nov 87* Last Survey *3rd Jan 1888*
Reg. Book.

483 on the *S. S. Dunkeld.*

Tons *742*

Master *Broadfoot* Built at *Glasgow* By whom built *R. Napier & Co.* When built *1878*

Engines made at *R. Napier* By whom made *Glasgow* when made *1878*

Boilers made at By whom made when made *1878*

Registered Horse Power

Owners

Port belonging to

ENGINES, &c.—

Description of Engines

New Donkey Boiler

Diameter of Cylinders

Length of Stroke

No. of Rev. per minute

Point of Cut off, High Pressure

Low Pressure

Diameter of Screw shaft

Diam. of Tunnel shaft

Diam. of Crank shaft journals

Diam. 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

Where do they pump from

No. of Donkey Engines

Size of Pumps

Where do they pump from

Are all the bilge suction pipes fitted with roses

Are the roses always accessible

Are the sluices on Engine room bulkheads always accessible

No. of bilge injections

and sizes

Are they connected to condenser, or to circulating pump

How are the pumps worked

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 accessible at all times

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection 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

and fitted with a sluice door

worked from

BOILERS, &c.—(*Donkey Boiler*)

Number of Boilers *one*

Description *Cylindrical return Valves* Whether Steel or Iron

Steel except stays.

Working Pressure *40 lb.*

Tested by hydraulic pressure to *80 lb.*

Date of test *29th Dec 88.*

Description of superheating apparatus or steam chest *none*

Can each boiler be worked separately

Can the superheater be shut off and the boiler worked separately

No. of square feet of fire grate surface in each boiler

Description of safety valves

No. to each boiler

Area of each valve

Are they fitted with easing gear

No. of safety valves to superheater

area of each valve

Are they fitted with easing gear

Smallest distance between boilers and bunkers or woodwork

Diameter of boilers *6*

Length of boilers *5' 11 1/2"*

description of riveting of shell long. seams *single R. lap.*

circum. seams *single R. lap.*

Thickness of shell plates *3/8"*

Diameter of rivet holes *3/4"*

whether punched or drilled *drilled*

pitch of rivets *2"*

Lap of plating *2 1/4"*

Per centage of strength of longitudinal joint *75%*

working pressure of shell by rules *80 lb.*

size of manholes in shell *12 x 16.*

Size of compensating rings

angle iron 2 1/2 x 2 1/2 x 3/8

No. of Furnaces in each boiler *one*

Outside diameter *31"*

length, top *4'*

bottom *5 1/3'*

thickness of plates *3/8"*

description of joint *Double butt. S.*

if rings are fitted *no*

Greatest length between rings

working pressure of furnace by the rules *76*

combustion chamber plating, thickness, sides *3/8"*

back *3/8"*

top *3/8"*

Pitch of stays to ditto, sides *9" x 7"*

back *9" x 7"*

top *10"*

If stays are fitted with nuts or riveted heads

nuts

working pressure of plating by rules *49*

Diameter of stays at smallest part *1 1/2"*

working pressure of ditto by rules *57*

end plates in steam space, thickness *1/2"*

Pitch of stays to ditto *13"*

how stays are secured *Double nuts & washers*

working pressure by rules *56*

diameter of stays at

smallest part *1 1/4"*

Iron

working pressure by rules *44*

Front plates at bottom, thickness *1/2"*

Back plates, thickness *1/2"*

Greatest pitch of stays

working pressure by rules *angle*

Diameter of tubes *3"*

pitch of tubes *4"*

thickness of tube

plates, front *1/2"*

back *1/2"*

how stayed *stay bolts*

pitch of stays *about 12"*

width of water spaces *11"*

Diameter of Superheater or Steam chest

length

thickness of plates

description of longitudinal joint

diam. of rivet holes

Pitch of rivets

working pressure of shell by rules

diameter of flue

thickness of plates

If stiffened with rings

Distance between rings

working pressure by rules

end plates of superheater, or steam chest; thickness

how stayed

Superheater or steam chest; how connected to boiler

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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 _____ if fitted with easing gear _____ if steam from main boilers can
 enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
 Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
 per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
 Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of 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 plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

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

This boiler has been

sent out to the Cape of Good Hope.

The material and workmanship of this boiler are good and in my opinion this vessel is eligible to remain as classed when the above boiler has been fitted.

It is submitted that this vessel is eligible to remain as classed provided this donkey boiler be satisfactorily fitted on board.

1.2.88

The amount of Entry Fee .. £ : : received by me,

Special .. £ 2 : 2 : —

Donkey Boiler Fee .. £ : :

Certificate (if required) .. £ : :

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

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



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