

REPORT ON MACHINERY.

4552

No. 22

(Received at London Office *11 MAR 83*)

No. in Survey held at *Dundee*

Date, first Survey *4/9/82*

Last Survey *29th Jan 1883*

Book.

(Number of Visits)

2012-74

on the *S. "Dundee"*

Tons *2062.92*

Naughton

Built at

Dundee

When built

1882

made at

By whom made

when made

made at

Dundee

By whom made

W.B. Thompson

when made *1883*

indicated Horse Power

Owners

B. Barrie

Port belonging to

Dundee

ENGINES, &c.—

Number of Engines

Number of Cylinders

Length of Stroke

No. of Rev. per minute

Point of Cut off, High Pressure

Low Pressure

Number of Screw shaft

Diameter of Tunnel shaft

Diameter of Crank shaft journals

Diameter of Crank pin

size of Crank webs

Number of screw

Pitch of screw

No. of blades

state whether moveable

total surface

Feed pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

Bilge pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

to they pump from

Donkey Engines

Size of Pumps

Where do they pump from

Are the bilge suction pipes fitted with roses

Are the roses always accessible

Are the sluices on Engine room bulkheads always accessible

Bilge injections

and sizes

Are they connected to condenser, or to circulating pump

Do the pumps worked

Are 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 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

Are pipes carried through the bunkers

How are they protected

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

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

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

Is screw shaft tunnel watertight

and fitted with a sluice door

worked from

BOILERS, &c.—

Number of Boilers

Description

Pressure

Tested by hydraulic pressure to

Date of test

Is there any superheating apparatus or steam chest

Can boiler be worked separately

Can the superheater be shut off and the boiler worked separately

What is the square feet of fire grate surface in each boiler

Description of safety valves

What is the weight of each boiler

area of each valve

Are they fitted with easing gear

What is the weight of safety valves to superheater

area of each valve

are they fitted with easing gear

What is the distance between boilers and bunkers or woodwork

Number of boilers

Length of boilers

description of riveting of shell long. seams

circum. seams

Number of shell plates

diameter of rivet holes

whether punched or drilled

pitch of rivets

What is the thickness of plating

per centage of strength of longitudinal joint

working pressure of shell by rules

What is the diameter of manholes in shell

size of compensating rings

What is the diameter of furnaces in each boiler

outside diameter

length, top

bottom

What is the thickness of plates

description of joint

if rings are fitted

greatest length between rings

What is the working pressure of furnace by the rules

What is the thickness of chamber plating, thickness, sides

back

top

Pitch of stays to ditto, sides

back

top

If stays are fitted with nuts or riveted heads

working pressure of plating by rules

Diameter of stays at smallest part

working pressure of ditto by rules

End plates in steam space, thickness

pitch of stays to ditto

how stays are secured

Working pressure by rules

diameter of stays at smallest part

working pressure by rules

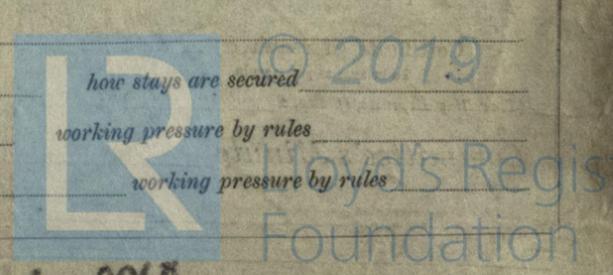
Front plates at bottom, thickness

Back plates, thickness

greatest pitch of stays

working pressure by rules

Form No. 2176 5 1902



DUN103-0064

Diameter of tubes _____ pitch of tubes _____ thickness of tube plates, front _____ back _____
 How stayed _____ pitch of stays _____ width of water spaces _____
 Diameter of Superheater or Steam chest _____ length _____
 Thickness of plates _____ description of longitudinal joint _____ diameter 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 _____ heater, or steam chest; thickness _____ How stayed _____
 Superheater of _____ chest; how connected to boiler _____

DONKEY BOILER— Description one round vertical
 Made at Bunde By whom made W B Thompson when made 1883
 Where used Bunde working pressure 55 lb Tested by hydraulic pressure to 110 lb No. of Certificate 211
 Fire grate area 1.5 Description of safety valves direct S.L. No. of safety valves one area of each 9.6
 If fitted with casing gear yes If steam from main boilers can enter the donkey boiler
 Diameter of donkey boiler 5 ft 6 in length 10-0 description of riveting lap D.R.
 thickness of shell plates 7/16 diameter of rivet holes 7/8 whether punched or drilled punched
 pitch of rivets 3 7/16 lap of plating 4 3/8 + 2 5/8 per centage of strength of joint 75-80%
 thickness of crown plates 3 1/2 stayed by dished
 Diameter of furnace, top 4-4 bottom 4-11 length of furnace 4-0
 thickness of plates 7/16 description of joint lap D.R.
 thickness of furnace crown plates 7/16 stayed by dished
 Working pressure of shell by rules 75 lbs working pressure of furnace by rules 77 lbs
 diameter of uptake 1 7/8 thickness of plates 1/2 thickness of water tubes 3/8

The foregoing is a correct description,
W. B. Thompson Manufacturer.
A. Smith

General Remarks (State quality of workmanship, opinions as to class, &c. This boiler has been fitted
in accordance with the requirements of the Rules, and
its plans submitted for the Committee's approval dated 5/9/82
The material & workmanship are of the best description
The boiler has been tested by steam and the safety valve
set to a working pressure of 55 lbs per square inch
and in my opinion eligible to be granted certificate of use

[Faint handwritten notes and signatures in the lower middle section of the page.]

The amount of Entry Fee £ : : received by me, }
 Special £ 2 : 2 : 0 }
 Certificate (if required) .. £ : : 26th Feb 1883.
 To be sent as per margin.
 (Travelling Expenses, if any, £)

John Sturrock
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping
Bunde District

Committee's Minute _____ 18

