

REPORT ON MACHINERY.

No. 4481

Received at London Office Thursday, 3rd June, 1886

No. in Survey held at Glasgow Date, first Survey 10th Feb^y Last Survey 11th May 1886

Reg. Book. _____ (Number of Visits 2)
 on the Sailing Ship "Bannockburn" Tons 2000

Master _____ Built at _____ By whom built Barclay, Curle & Co. (Londⁿ) When built 1886

Engines made at _____ By whom made _____ when made _____

Boilers made at Glasgow By whom made Barclay, Curle & Co. (Londⁿ) when made 1886

Registered Horse Power _____ Owners Shankland Port belonging to Greenock

ENGINES, &c.—

Description of Engines _____

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.—

Number of Boilers _____ Description _____ Whether Steel or Iron _____

Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____

Description of superheating apparatus or steam chest _____

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 _____

Length of boilers _____ description of riveting of shell long. seams _____ circum. seams _____ Thickness of shell plates _____

Diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ Lap of plating _____

Per centage of strength of longitudinal joint _____ working pressure of shell by rules _____ size of manholes in shell _____

Size of compensating rings _____ No. of Furnaces in each boiler _____

Outside diameter _____ length, top _____ bottom _____ thickness of plates _____ description of joint _____ if rings are fitted _____

Greatest length between rings _____ working pressure of furnace by the rules _____ combustion 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 _____ Diameter of tubes _____ pitch of tubes _____ thickness of tube _____

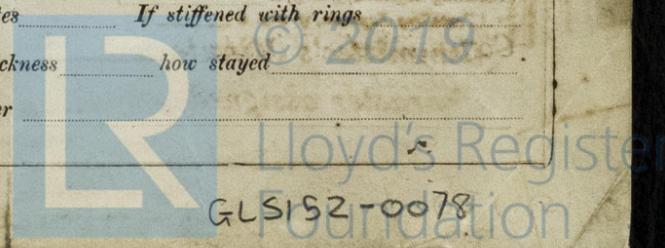
plates, front _____ back _____ how stayed _____ pitch of stays _____ width of water spaces _____

Diameter of Superheater or Steam chest _____ length _____ thickness of plates _____ description of longitudinal joint _____ 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 _____



7481 gls

DONKEY BOILER— Description *Certical*
 Made at *Glasgow* by whom made *Barclay Curle & Co. Limited* when made *1886* where fixed *On deck*
 Working pressure *60 lbs* tested by hydraulic pressure to *120 lbs* No. of Certificate *1635* fire grate area *9 ft²* description of safety valves *Direct Spring* No. of safety valves *One* area of each *4"* if fitted with easing gear *—* if steam from main boilers can enter the donkey boiler *—* diameter of donkey boiler *4' 0"* ^{length} *8' 9"* description of riveting *Single riveted lap*
 Thickness of shell plates *1/16"* diameter of rivet holes *3/4"* whether punched or drilled *Drilled* pitch of rivets *1 3/4"* lap of plating *—*
 per centage of strength of joint *—* thickness of crown plates *1/16"* stayed by *three stays 1 1/2" dia + uptake*
 Diameter of furnace, top *3 ft²* bottom *3' 6"* length of furnace *4' 6"* thickness of plates *1/16"* description of joint *Laps*
 Thickness of furnace crown plates *1/16"* stayed by *Uptake 1 1/2" dia + three stays* working pressure of shell by rules *93 lbs*
 Working pressure of furnace by rules *93 lbs* diameter of uptake *1 1/2"* thickness of plates *1/16" iron* 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. *The Safety valve has been tested & set under steam to 60 lbs working pressure and the Boiler is now in good order and safe working condition*)

This appears to be satisfactory
J.M. 3/6/86

The amount of Entry Fee *£* : : received by me, *(Signature)*
 Special .. *£* : :
 Donkey Boiler Fee .. *£ 2 : 2*
 Certificate (if required) .. *£* : : *2/6/1886*
 To be sent as per margin.

(Travelling Expenses, if any, £ ..)

Committee's Minute

Friday, 4th June, 1886.

James Morrison
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
Clyde District