

REPORT ON MACHINERY.

No. 12414

Port of Glasgow

MON. 4 SEP 1893

Received at London Office

No. in Survey held at Paisley Date, first Survey 14 Nov Last Survey 2 March 1893
 Reg. Book. 721 on the S.S. Clan Mackenzie (Number of Visits) 18
 Master Leth Built at Leth By whom built Ramsey & Ferguson When built 1882.4
 Engines made at Glasgow By whom made David Rowan when made 1882
 Boilers made at Glasgow By whom made David Rowan when made 1882
 Registered Horse Power 400 Owners Kayzer, Irvine & Co. Port belonging to Glasgow
 Nom. Horse Power as per Section 28 7

ENGINES, &c.— Description of Engines No. of Cylinders
 Diameter of Cylinders Length of Stroke Revolutions per minute Diameter of Screw shaft as per rule
 Diameter of Tunnel shaft as fitted Diameter of Crank shaft journals Diameter 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
 No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room In Holds, &c.

No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
 Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 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 and all boiler mountings accessible at all times
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication 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
 Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers
 No. and Description of Boilers Working Pressure Tested by hydraulic pressure to
 Date of test Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to
 each boiler Area of each valve Pressure to which they are adjusted Are they fitted
 with easing gear Smallest distance between boilers or uptakes and bunkers or woodwork 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 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
 bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Back Top If stays are 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

Is a Report also sent on the Bilge, &c. If not, state whether, and when, one will be sent?

GLS168-0027

DONKEY BOILER—

Description

Multitubular

Made at

Paisley

By whom made

Bow, McLaughlan & Co

When made

1893

Where fixed

on deck

Working pressure

100 lbs

tested by hydraulic pressure to

200 lbs

No. of Certificate

3257

Fire grate area

30 sq

Description of safety valves

d. opening

No. of safety valves

2

Area of each

5 sq

Pressure to which they are adjusted

85 lbs

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

no

Diameter of donkey boiler

11'-0"

Length

9'-0"

Material of shell plates

steel

Thickness

1/16"

Description of riveting long. seams

d. butt. tub riv

Diameter of rivet holes

7/8"

Whether punched or drilled

drill

Pitch of rivets

4 7/8"

Lap of plating

1 3/4"

Per centage of strength of joint

81.1

Thickness of shell plates

1/16"

Radius of do.

—

No. of Stays to do.

13 7/8"

Dia. of stays

1 7/8"

Diameter of furnace Top

38"

Bottom

—

Length of furnace

6'-0"

Thickness of furnace plates

17/32"

Description of joint

Welded

Thickness of furnace plates

1/2"

Stayed by

1 1/4" stays

8 3/4" pitch

Working pressure of shell by rules

110 lbs

Working pressure of furnace by rules

118 lbs

Diameter of tube

3 1/4"

Thickness of tube plates

1/16"

Thickness of water tubes

—

SPARE GEAR. State the articles supplied:—

John Sanderson
2.9.93.

The foregoing is a correct description,

Manufacturer.

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

It is submitted that
this vessel is eligible
remain AS CLASSED.

Eng
4/9/93 -

Certificate (if required) to be sent to

The amount of Entry Fee.. £

:

:

When applied for,

Special £

:

:

:

2/5/93

Donkey Boiler Fee £

2

2

When received

Travelling Expenses (if any) £

:

:

14/6/93

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

Committee's Minute

TUES. 5 SEP 1893

Assigned

See minute on repair report.



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Foundation