

REPORT ON MACHINERY.

No. 12954

Port of *Glasgow*

Received at London Office **FRI 18 MAY 1894**

No. in Survey held at *Glasgow*

Date, first Survey *29th August 1891* Last Survey *10th May 1894*

Reg. Book.

478 on the *S. S. Holme Wood (x Scale Force)*

(Number of Visits *19*)

Tons { Gross *258.*
Net *99.*

Master *Green*

Built at *Workington*

By whom built *R. Williamson & Son*

When built *1883*

Engines made at *Ayr.*

By whom made *J & T. Young*

when made *1883.*

Boilers made at *Glasgow*

By whom made *Hutson & Son*

when made *1894*

Registered Horse Power *50.*

Owners *R. Williamson & Son*

Port belonging to *Workington*

ENGINES, &c.—

Description of Engines _____ No. of Cylinders _____
Diam. of Cylinders _____ Length of Stroke _____ 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 _____
of Feed pumps _____ diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
of Bilge pumps _____ diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
do they pump from _____
of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____

• 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 _____

the screw shaft tunnel watertight _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.—

No. of Boilers *One* Description *S. E. Multitubular* Material *Steel* Letter (for record) _____
Working Pressure *80 lbs.* Tested by hydraulic pressure to *160 lbs.* Date of test *9th November 1891.*

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 *3009 ft.* Description of safety valves *d. Spring* No. to each boiler *two*

Area of each valve *40"* Are they fitted with easing gear *yes* No. of safety valves to superheater _____ area of each valve _____

Are they fitted with easing gear _____ Smallest distance between boilers and bunkers or ~~woodwork~~ *9"* Diameter of boilers *10'-0"*

Length of boilers *9'-6"* description of riveting of shell long. seams *treb riv. lap* circum. seams *d. lap* Thickness of shell plates *3/4"*

Diameter of rivet holes *15/16"* whether punched or drilled *drilled* pitch of rivets *3 3/4"* Lap of plating *7"*

Per centage of strength of longitudinal joint *45%* working pressure of shell by rules *81 lbs.* size of manholes in shell *12 x 16*

Size of compensating rings *7/8 dbl. pl.* No. of Furnaces in each boiler *two* Description of Furnaces *plain*

Outside diameter *36"* length *6'-5"* thickness of plates *7/32"* description of joint *d. butt str.* if rings are fitted _____

Greatest length between rings _____ working pressure of furnace by the rules *83 lbs.* combustion chamber plating, thickness, sides *7/32"* back *15/32"* top *15/32"*

Pitch of stays to ditto, sides *9"* back *9"* top *9 1/4"* If stays are fitted with nuts or riveted heads *nuts* working pressure of plating by

rules *83 lbs.* Diameter of stays at smallest part *1 1/2"* working pressure of ditto by rules *101 lbs.* and plates in steam space, thickness *7/8" washers*

Pitch of stays to ditto *14 1/2" x 14 1/2"* how stays are secured *d. nuts* working pressure by rules *83 lbs.* diameter of stays at

smallest part *2" iron* working pressure by rules *89 lbs.* Front plates at bottom, thickness *7/8"* Back plates, thickness *7/8"*

Greatest pitch of stays *12 1/4"* working pressure by rules *80 lbs.* Diameter of tubes *3 1/4"* pitch of tubes *4 3/8"* thickness of tube

plates, front *7/8"* back *7/8"* how stayed *stubs* pitch of stays *8 3/4" x 13 1/8"* width of water spaces *6 1/2"*

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 _____

12954 glos

NO 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.

The old boiler has been

taken out of the vessel and a new one, of the dimensions given on other side, fitted in its place and properly secured. This boiler has been built under Special Survey and is of good workmanship and material, the Safety Valves have been adjusted to a working pressure of 80 lbs per sq. inch. —

For particulars of docking and examination of engines see Barrow Report. —

The vessel is now in our opinion eligible to be noted in the Society's Register: *L.M.C. 5. 94*
N.B. 94.

It is submitted that
this vessel is eligible for
THE RECORD

on acct of *LMC 4-92* and *TNB 11-91*
A new Main boiler was fitted
N.A.
21. 5-94

Certificate (if required) to be sent to

The amount of Entry Fee .. £ : : received by me,
Special .. £ : :
Donkey Boiler Fee .. £ 3 : 3 :
14/5 1894

(Travelling Expenses, if any, £)

Committee's Minute

TUES. 22 MAY 1894

+ *L.M.C. 4. 92*
+ *N.B. 11. 91.*

John Sanderford James Morrison
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRIDAY 21 SEP 1894

FRIDAY 19 OCT 1894

© 2019

Lloyd's Register
Foundation