

REPORT ON MACHINERY.

No. Stw. No. 43962

Port of Glasgow in Type.

RI. 17 OCT 1902

No. in Survey held at Glasgow Date, first Survey _____ Last Survey 19
 g. Book. _____
 on the B.S. of "Albatross" No. 1368 (Number of Visits _____)
 Master J. Williams Built at Aberdeen By whom built J. Guthrie Sons & Co Tons { Gross 315.54
 Net 156.88 When built 1902
 Engines made at Aberdeen By whom made Clyde Mitchell & Co. Ltd when made 1902
 Moulders made at South Shields By whom made J. J. Cunningham and Co. when made 31.7.02
 Registered Horse Power 71 Owners Alex Gray & Adam Maitland Port belonging to Aberdeen
 Net Horse Power as per Section 28 84 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines

No. of Cylinders _____ No. of Cranks _____
 Length of Stroke _____ Revs. per minute _____ Dia. of Screw shaft _____
 Dia. of Crank shaft journals _____ Dia. of Crank pin _____ Size of Crank webs _____
 Dia. of screw _____ Pitch of screw _____ No. of blades _____ State whether moveable _____ Total surface _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____
 In Holds, &c. _____
 Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____
 Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 Are they Valves or Cocks _____
 Are the discharge pipes above or below the deep water line _____
 Are the blow off cocks fitted with a spigot and brass covering plate _____
 How are they protected _____
 Is the screw shaft tunnel watertight _____

BOILERS, &c.—

(Letter for record _____) Total Heating Surface of Boilers 1446 Is forced draft fitted No.
 and Description of Boilers One Cyl. by alt. single end. Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs.
 Area of fire grate in each boiler 50 No. and Description of safety valves to _____
 Area of each valve 5.93 sq. m. Pressure to which they are adjusted 185 Are they fitted with easing gear yes
 Mean dia. of boilers 12'-10 1/2" Length 10'-0" Material of shell plates S.
 Are they welded or flanged ✓ Descrip. of riveting: cir. seams Lap. D. R. long. seams Butt. T. R.
 Working pressure of shell by rules 180 lbs. Size of manhole in shell 16" x 12"
 No. and Description of Furnaces in each boiler 3. Plain Material S. Outside diameter 39"
 Description of longitudinal joint D. Butt Straps. No. of strengthening rings One T.
 Working pressure of furnace by the rules 180 lbs. Combustion chamber plates: Material S. Thickness: Sides 11/16" Back 31/32" Top 11/16" Bottom 31/32"
 Working pressure by rules 183 lbs.
 Diameter at smallest part 1 33/64" Area supported by each stay 81" Working pressure by rules 220 lbs. End plates in steam space: _____
 Working pressure by rules 185 lbs. Material of stays S.
 Working pressure by rules 192 lbs. Material of Front plates at bottom S.
 Working pressure of plate by rules 188 lbs.
 Working pressures by rules 189 lbs. Girders to Chamber tops: Material S. Depth and _____
 Superheater or Steam chest; how connected to boiler 4 in. Can the superheater be shut off and the boiler worked _____
 Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet _____
 Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 End plates: Thickness _____ How stayed _____
 Area of safety valves to superheater _____ Are they fitted with easing gear _____



DONKEY BOILER— No. Description When made Where fixed

Made at By whom made

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

strength Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Descrip. of riveting long seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Plates Thickness of shell crown plates Radius of do. No. of Stays to do.

Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace 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 uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

M. S. Clainpearce Manufacturer. *Main Boiler.*

Dates of Survey while building

During progress of work in shops - - 1902. *Mch. 26. Apr. 5. 1902. May. 19. 27. 29. June. 11. 12. 16. 21. July. 25. 26. 28.*

During erection on board vessel - -

Total No. of visits *20*

Is the approved plan of main boiler forwarded herewith *Yes.*

“ “ “ donkey “ “ “

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

Material of screw shaft Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two liners are fitted, is the shaft lapped or protected between the liners

This boiler has been constructed under special survey, the materials and workmanship are good.

On completion it was subjected to an hydraulic test of 560 lbs. per sq. in. and was tight and satisfactory at that pressure.

The amount of Entry Fee. £ : : When applied for, *14 AUG 1902*

Special £ : : *4 16*

Donkey Boiler Fee £ : : *Paid at NWC.*

Travelling Expenses (if any) £ : : *See's letter to Abn. dated 22.8.02.*

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

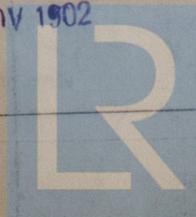
Committee's Minute

Assigned

TUES. 21 OCT 1902

TUES. 4 NOV 1902

TUES. 27 JAN 1903



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Abel can Office

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or behind the space for Committee's Minutes.)