

REPORT ON MACHINERY.

No. 12661

Port of *Glasgow*

TUES. 9 JAN 1894

No. in Survey held at *Glasgow*
Reg. Book.

Date, first Survey *4th Oct 1893* Last Survey *Jan 3rd 1894*
(Number of Visits *2*)

450 on the *Steel S.S. Rosgull*

Tons { Gross *229*
Net *97*
When built *1884-4*

Master *J. Neil* Built at *Paisley* By whom built *M^r Arthur*

Engines made at *Glasgow* By whom made *Menzies & Houston* when made *1884*

Boilers made at *Glasgow* By whom made *Ross & Duncan (main body)* when made *1894*

Registered Horse Power *54* Owners *Earl of Leitrim* Port belonging to *Londonderry*

Nom. Horse Power as per Section 28 *✓* *S.O. Glas No 2-93* *+ L.M.C. 2-93*

ENGINES, &c.— Description of Engines *Compound surface condensing* No. of Cylinders *Two*
Diameter of Cylinders *18" x 36"* Length of Stroke *24"* Revolutions per minute *6.1* Diameter of Screw shaft *as per rule 6"*
Diameter of Tunnel shaft *as per rule 5.8"* Diameter of Crank shaft journals *6"* Diameter of Crank pin *6"* Size of Crank webs *4 x 7 1/2"*
Diameter of screw *6"* Pitch of screw *6"* No. of blades *6"* State whether moveable *✓* Total surface *4 x 7 1/2"*
No. of Feed pumps *2* Diameter of ditto *6"* Stroke *12"* Can one be overhauled while the other is at work *✓*
No. of Bilge pumps *2* Diameter of ditto *6"* Stroke *12"* Can one be overhauled while the other is at work *✓*
No. of Donkey Engines *2* Sizes of Pumps *12"* No. and size of Suctions connected to both Bilge and Donkey pumps *2 x 12"*
In Engine Room *2* In Holds, &c. *2*
No. of bilge injections *2* sizes *12"* Connected to condenser, or to circulating pump *✓* Is a separate donkey suction fitted in Engine room & size *12"*
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 *2"* 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 *S*) Total Heating Surface of Boilers *918 sq ft*
No. and Description of Boilers *One cylindrical multitubular* Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs*
Date of test *6/12/93* Can each boiler be worked separately *✓* Area of fire grate in each boiler *35 sq ft* No. and Description of safety valves to each boiler *One pair direct spring* Area of each valve *7.068 sq"* Pressure to which they are adjusted *80 lbs* Are they fitted with easing gear *✓* Smallest distance between boilers or uptakes and bunkers or woodwork *6"* Mean diameter of boilers *11.6"*
Length *9.0"* Material of shell plates *Steel* Thickness *3/16"* Description of riveting: circum. seams *lap double riv long. seams butt triple riv*
Diameter of rivet holes in long. seams *13/16"* Pitch of rivets *5"* Lap of plates *12 3/4"* width of butt straps *12 3/4"*
Per centages of strength of longitudinal joint *94.6%* Working pressure of shell by rules *109 lbs* Size of manhole in shell *15" x 11 1/2"*
Size of compensating ring *6 x 1 1/2"* No. and Description of Furnaces in each boiler *Two, plain* Material *Steel* Outside diameter *43"*
Length of plain part *6.0"* Thickness of plates *3/16"* Description of longitudinal joint *Welded* No. of strengthening rings *1/6 x 3 x 3/4"*
Working pressure of furnace by the rules *109 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *3/16"* Back *3/16"* Top *3/16"* Bottom *3/16"*
Pitch of stays to ditto: Sides *8" x 8"* Back *8" x 8"* Top *8" x 8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *105 lbs*
Material of stays *Steel* Diameter at smallest part *99* Area supported by each stay *64 sq"* Working pressure by rules *123 lbs* End plates in steam space: *Steel* Thickness *3/16"* Pitch of stays *16" x 16"* How are stays secured *double* Working pressure by rules *103 lbs* Material of stays *Steel* Diameter at smallest part *303* Area supported by each stay *286 sq"* Working pressure by rules *106 lbs* Material of Front plates at bottom *Steel* Thickness *3/16"* Material of Lower back plate *Steel* Thickness *3/8"* Greatest pitch of stays *9 1/4 x 14"* Working pressures of plates by rules *157 x 160 lbs*
Diameter of tubes *3 1/2"* Pitch of tubes *4 1/2" x 4 1/2"* Material of tube plates *Steel* Thickness: Front *3/16"* Back *3/8"* Mean pitch of stays *10 1/8"*
Pitch across wide water spaces *14" x 9 1/4"* Working pressures by rules *160 lbs x 157 lbs* Girders to Chamber tops: Material *iron* Depth and thickness of girder at centre *6 1/2" x 1 1/2"* Length as per rule *27"* Distance apart *8"* Number and pitch of Stays in each *two 8"*
Working pressure by rules *138 lbs* Superheater; how connected to boiler *flange* Can the superheater be shut off and the boiler worked separately *✓* Diameter *2'-6"* Length *2'-6"* Thickness of shell plates *3/8"* Material *Steel* Description of longitudinal joint *butt* Diam. of rivet holes *3/4"* Pitch of rivets *2 7/8"* Working pressure of shell by rules *194 lbs* Material of flue plates *Steel* Thickness *3/8"* How stayed *2" solid steel stay*
If stiffened with rings *✓* Distance between rings *8"* Working pressure by rules *194 lbs* End plates: Thickness *3/8"* How stayed *2" solid steel stay*
Working pressure of end plates *296 lbs* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

GLS169-0059

DONKEY BOILER—

Description

12661 gls

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 _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____

Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ 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,

R. & Duncanson

Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. A stud main boiler of the

dimensions given on the other side, has been constructed under special survey. The materials & workmanship are of good description and an hydraulic test of 200 lbs per sq. inch has been applied with satisfactory results. The boiler has been well fitted on board steam raised & the safety valves adjusted to 80 lbs per sq. inch which pressure is available for the shafting.

The cylinders, pistons, slide valves, pump & shafting were opened up and overhauled a new packing ring has been fitted to the H.P. Cylinder also a new set of cylinder & pump valves. When in dry dock the propeller was drawn in & examined & found in good order. The stern bush was lined at bottom & the log run vital & all sea cocks overhauled & ground up.

The donkey boiler with its mountings was examined & found in good order steam was raised & the safety valves adjusted to 60 lbs per square inch.

The machinery of this vessel is now in good order & in my opinion eligible to have notification **+NB 1-94** **+LMC 1-94** in the Register Book

Certificate (if required) to be sent to

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	3	3	4/1/94
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	8/1/94

A. McEland

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

Committee's Minute

FRI 12 JAN 1894

Assigned

+NB 1,94 +LMC 1,94
subject to.



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Foundation