

REPORT ON MACHINERY.

No. 12661

Port of Glasgow

Received at London Office **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 S. Neil Built at Paisley By whom built M^r Arthur

Engines made at Glasgow By whom made Messrs Froude when made 1884

Boilers made at Glasgow By whom made Ross & Duncan (mainboilers) 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 +LMC. 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 6"
Diameter of Tunnel shaft 6" Diameter of Crank shaft journals 6" Diameter of Crank pin 6" Size of Crank webs 4 x 7 1/2"
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 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 in Pressure to which they are adjusted 80 lbs Are they fitted with easing gear yes 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 1/16" Description of riveting: circum. seams lap double riv long. seams butt tubular riv
Diameter of rivet holes in long. seams 13/16" Pitch of rivets 5" ~~lap of plates~~ 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 1/16" 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 T
Working pressure of furnace by the rules 109 lbs combustion chamber plates: Material Steel Thickness: Sides 1/32" Back 1/32" Top 1/32" Bottom 1/16"
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 in Working pressure by rules 123 lbs End plates in steam space:
Material Steel Thickness 3/32" 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 3.03 Area supported by each stay 286 sq in Working pressure by rules 106 lbs Material of Front plates at bottom Steel
Thickness 1/16" Material of Lower back plate Steel Thickness 3/8" Greatest pitch of stays 9 1/4 x 14" Working pressures of plates by rules 15.7 x 16 lbs
Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1/16" Back 5/8" 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 Rinders 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~~ Steam chest; 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 Diameter of flue Material of flue plates Thickness
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness 5/8" 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

Lloyd's Register and others. We will be sent to the Registrar of Companies.

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. _____

Plates _____ 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,

Ross & Duncan 2/18 Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. A stub 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 suitable 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 edge & mud pump valves. When in dry dock the propeller was drawn in & examined & found in good order, the stern bush was renewed at bottom & the log screws 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** in the Register Book **1-94**

(The Surveys are requested not to write on or below the space for Committee's Minute.)

Certificate (if required) to be sent to

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	3	3	4/11 1894
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	8/11 1894

A. McLeod

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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