

REPORT ON MACHINERY.

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No. **10273** Port of **Glasgow**
 No. in Survey held at _____ Date, first Survey _____ Last Survey **18**
 Reg. Book. _____ (Number of Visits _____)
 on the **S.S. "Lennox"** Tons Gross _____
 Master _____ Built at _____ By whom built _____ Net _____
 _____ When built _____
 _____ Engines made at _____ By whom made _____ when made _____
 _____ Boilers made at _____ By whom made _____ when made _____
 _____ Registered Horse Power _____ Owners _____ Port belonging to _____

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 _____
 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 _____
 Where do they pump from _____
 No. of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____
 Are 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 _____
 Is the screw shaft tunnel watertight _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.— **Donkey**

No. of Boilers **one** Description **cyl: multi:** Material **Steel** Letter (for record) **S**
 Working Pressure **80** Tested by hydraulic pressure to **160** Date of test **15-10-90 8-218**
 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 _____ Description of safety valves _____ No. to each boiler _____
 Area of each valve _____ Are they fitted with easing gear _____ No. of safety valves to superheater _____ area of each valve _____
 Are they fitted with easing gear _____ Smallest distance between boilers and bunkers or woodwork _____ Diameter of boilers **6'-6"**
 Length of boilers **8'-0"** description of riveting of shell long. seams **Lap D.R.** circum. seams **Lap O.R.** Thickness of shell plates **7/16**
 Diameter of rivet holes **15/16** whether punched or drilled **D** pitch of rivets **3/4** Lap of plating **4 1/2**
 Percentage of strength of longitudinal joint **71** working pressure of shell by rules **86** size of manholes in shell **16 x 12**
 Size of compensating rings **6 x 7/16** No. of Furnaces in each boiler **one** Description of Furnaces **7" Plain**
 Outside diameter **37"** length **5-6** thickness of plates **15/32** description of joint **D.B.S., S.R.** if rings are fitted **no**
 Greatest length between rings _____ working pressure of furnace by the rules **102** combustion chamber plating, thickness, sides **7/16** back **7/16** top **15/32**
 Pitch of stays to ditto, sides **8/16** back **8/16 x 7/16** top **8/16** If stays are fitted with nuts or riveted heads **nuts** working pressure of plating by rules **81** Diameter of stays at smallest part **1 1/32** working pressure of ditto by rules **107** end plates in steam space, thickness **3/4**
 Pitch of stays to ditto **15"** how stays are secured **D.R.** working pressure by rules **90** diameter of stays at smallest part **1 3/4** working pressure by rules **96** Front plates at bottom, thickness **9/16** Back plates, thickness **9/16**
 Greatest pitch of stays **9/16** working pressure by rules _____ Diameter of tubes **3** pitch of tubes **4** thickness of tube plates, front **9/16** back **9/16** how stayed **stay tubes** pitch of stays _____ width of water spaces
 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 _____

State if Report is also sent on the _____
T. & E. Form No. _____

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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 amount of Entry Fee .. £ : : received by me,
 Special £ : :
 Donkey Boiler Fee £ : :
 Certificate (if required) .. £ : : 18
To be sent as per margin.

(Travelling Expenses, if any, £ _____)

Committee's Minute

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



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