

REPORT ON MACHINERY.

11280

No. 11280

Port of Glasgow

MON. 8 FEB 1892

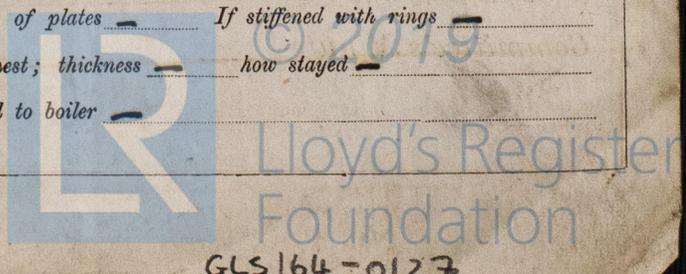
No. in Survey held at Paisley Date, first Survey 31st July 1891 Last Survey 22nd Jan 1892
 Reg. Book. on the S. S. "Palston" (Number of Visits 21)
 Master Nenneth Stewart Built at Paisley By whom built J. McArthur & Co When built 1891-2
 Engines made at Paisley By whom made Bow, McLachlan & Co when made 1891-2
 Boilers made at Paisley By whom made Bow, McLachlan & Co when made 1891-2
 Registered Horse Power 33 Owners P. G. Hendry & Co Port belonging to Glasgow Coasting

ENGINES, &c.

Description of Engines Compounds No. of Cylinders Two
 Diam. of Cylinders 13 1/4" & 26" Length of Stroke 18" Rev. per minute 140 Point of Cut off, High Pressure Var Low Pressure Var
 Diameter of Screw shaft 5 1/2" Diam. of Tunnel shaft 5 1/2" Diam. of Crank shaft journals 5 1/2" Diam. of Crank pin 5 1/2" size of Crank webs 3 1/2" x 7"
 Diameter of screw 6'-4" Pitch of screw 8'-6" No. of blades 3 state whether moveable Sal. total surface 10 1/2 sq ft
 No. of Feed pumps One diameter of ditto 1 7/8" Stroke 9" Can one be overhauled while the other is at work -
 No. of Bilge pumps One diameter of ditto 1 7/8" Stroke 9" Can one be overhauled while the other is at work -
 Where do they pump from all compartments
 No. of Donkey Engines One Size of Pumps 4 1/2" x 2 3/8" x 5" Where do they pump from Hotwell, Sea, bilges
 Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 No. of bilge injections One and sizes 2 1/2" Are they connected to condenser, or to circulating pump yes
 How are the pumps worked by levers
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the discharge pipes above or below the deep water line about
 Are they each fitted with a discharge valve always accessible on the plating of the vessel yes Are the blow off cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers none How are they protected -
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock on stocks before launching
 Is the screw shaft tunnel watertight none and fitted with a sluice door - worked from -

BOILERS, &c.

No. of Boilers One Description Multitubular Material Steel Letter (for record) S.
 Working Pressure 120 lbs. Tested by hydraulic pressure to 240 lbs. Date of test 17th 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 26. Description of safety valves d. opening No. to each boiler two
 Area of each valve 3.5 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 9'-0"
 Length of boilers 9'-0" description of riveting of shell long. seams d. butt str. circum. seams d. riv. lap Thickness of shell plates 11/16"
 Diameter of rivet holes 7/8" whether punched or drilled drilled pitch of rivets 5" x 2 1/2" Lap of plating 4 1/2"
 Per centage of strength of longitudinal joint 82.5 working pressure of shell by rules 120 lbs size of manholes in shell 12" x 16"
 Size of compensating rings d. riv. ring No. of Furnaces in each boiler two Description of Furnaces plain flue
 Outside diameter 33" length 6'-0" thickness of plates 1 7/32" description of joint d. butt str. if rings are fitted -
 Greatest length between rings - working pressure of furnace by the rules 129 lbs combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Pitch of stays to ditto, sides 8" x 8 1/2" back 7 1/2" x 8" top 8 1/2" x 8" If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 120 lbs Diameter of stays at smallest part 1 1/2" working pressure of ditto by rules 125 lbs and plates in steam space, thickness 5/8" x 7/8" straps
 Pitch of stays to ditto 16" x 13" how stays are secured d. nuts working pressure by rules 120 lbs diameter of stays at smallest part 2 1/2" working pressure by rules 135 lbs Front plates at bottom, thickness 9/16" Back plates, thickness 9/16"
 Greatest pitch of stays - working pressure by rules - Diameter of tubes 3" pitch of tubes 4" x 4" thickness of tube plates, front 9/16" back 9/16" how stayed stubs pitch of stays 12" x 8" width of water spaces 5"
 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 -



GLS164-0127

11280 g/s

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:— *Top and bottom end bolts & nuts. Main bearing & coupling bolts. Feed and ledge pump valves. Bolts nuts iron anast.*

The foregoing is a correct description, *Boer W. G. H. L. & Co. Glasgow*
 Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *The above mentioned engines and boiler have been built under special survey and are of good workmanship. They have been well fitted outboard and tried under steam with satisfactory results. The machinery is now in my opinion in good working order and eligible to be noted: L.M.C. 1.92.*

W. G. H. L. & Co.

It is submitted that this vessel is eligible for the RECORD + L.M.C. 1-92
 18/2-92

Certificate (if required) to be sent to _____

The amount of Entry Fee .. £ 1 : : : received by me,
 Special .. £ 8 : : :
 Donkey Boiler Fee .. £ : : :
 13/2/92

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

Committee's Minute TUESDAY 9 FEB 1892
 + Lmb 1/92

