

REPORT ON MACHINERY.

10044

No. 10044 Port of Glasgow Received at London Office 18
 No. in Survey held at Glasgow Date, first Survey 21st January Last Survey 24th June 1890.
 Reg. Book. Simon Dredger N^o 280 (Number of Visits 11)
 on the Simon Dredger N^o 280 Tons ^{Gross} ^{Net}
 Master Built at By whom built When built
 Engines made at By whom made when made
 Boilers made at Glasgow By whom made Lindsay Burnet & Co when made 1890
 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.—

No. of Boilers Two Description Epl. Mult. Material Steel Letter (for record) (S)
 Working Pressure 160 lbs Tested by hydraulic pressure to 320 lbs Date of test 24th June 1890
 Description of superheating apparatus or steam chest
 Can each boiler be worked separately yes 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 12' 0"
 Length of boilers 10' 3" description of riveting of shell long. seams D. butt strap 3 rows seams Lap 2 rows Thickness of shell plates 1 1/16"
 Diameter of rivet holes 1 3/16" whether punched or drilled drilled pitch of rivets 5 1/2" x 3 9/16" Lap of plating 10 7/8" x 6 1/4"
 Per centage of strength of longitudinal joint 86% working pressure of shell by rules 164 lbs size of manholes in shell 12" x 16"
 Size of compensating rings 6" x 6" x 1 1/16" No. of Furnaces in each boiler Two Description of Furnaces Purvis Ribbed
 Outside diameter 40.18" length 7' 6" thickness of plates 9/32" description of joint Welded if rings are fitted
 Greatest length between rings working pressure of furnace by the rules 217 lbs combustion chamber plating, thickness, sides 9/16" back 9/16" top 9/16"
 Pitch of stays to ditto, sides 7 3/4" x 7 3/4" back 7 3/4" x 7 3/4" top 7 3/4" x 7 3/4" stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 188 lbs
 Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 163 lbs end plates in steam space, thickness 15/16" + 15/16"
 Pitch of stays to ditto 17" x 17" how stays are secured Nuts & double working pressure by rules 165 lbs diameter of stays at smallest part 2 5/8" working pressure by rules 160 lbs Front plates at bottom, thickness 13/16" Back plates, thickness 13/16"
 Greatest pitch of stays 7 3/4" x 7 3/4" working pressure by rules Diameter of tubes 3 1/2" pitch of tubes 4 3/4" x 4 3/4" thickness of tube plates, front 13/16" back 3/4" how stayed S. Tubes pitch of stays 9 1/2" x 9 1/2" width of water spaces 6" 6 9/4"
 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

10041 *egs*

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
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 tub _____

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 material of these Boilers is of good quality and workmanship. They have been constructed under special survey, in accordance with the Rules and Circulars of this Society.
They have stood a hydraulic test satisfactorily, as per Certificate.
No further survey is required on these boilers, as they are to be fitted on board an enclosed vessel at Glasgow.

*Discontinued the
to be satisfactory
appears to be*

The amount of Entry Fee .. £ : : received by me,
Special .. £ 6 : 6 :
Donkey Boiler Fee .. £ : :
Certificate (if required) .. £ : : 30/6 1890
To be sent as per margin.

(Travelling Expenses, if any, £ ..)

Committee's Minute

Machinery Certificate
Written.

FRI. NOV 9 1906

FRI. NOV 23 1906

FRI. 7 III 1905

TUES 5 MAY 1908

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

See Minute on Gls First Entry
Glasgow
Lloyd's Register
FRI. 1 MAY 1908