

REPORT ON MACHINERY.

Port of London

45940*

No. 346 on the Sonsley boiler of the S.S. "Goorla" Tons 4104
 Reg. Book. London Date, first Survey April 30th Last Survey August 14th 1890
 (Number of Visits 6)
 Master Henderson Built at Sumbarton By whom built W. Senny Bros When built 1882
 Engines made at Sumbarton By whom made W. Senny Bros when made 1882
 Boilers made at " By whom made " when made 1882
 Registered Horse Power 500 Owners British India S.S. Co Port belonging to Glasgow

ENGINES, &c.—

Description of Engines
 Diameter of Cylinders Length of Stroke No. of 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
 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

OILERS, &c.—

Number of Boilers one Description Horizontal multitubular Whether Steel or Iron Steel
 Working Pressure 80 lbs Tested by hydraulic pressure to 160 Date of test August 14th 1890
 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 25 Description of safety valves Spring No. to each boiler 2
 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 9-0
 Length of boilers 7-0 description of riveting of shell long. seams double riv lap circum. seams double riv Thickness of shell plates 9/16
 Diameter of rivet holes 1" whether punched or drilled drilled pitch of rivets 3 3/8" Lap of plating 4 1/2"
 Percentage of strength of longitudinal joint 71 working pressure of shell by rules 83 lbs size of manholes in shell 1-5" x 1-1"
 Size of compensating rings 6 1/2" x 9/16" No. of Furnaces in each boiler 2
 Outside diameter 2-10 length, top 4-6 bottom 6-0 thickness of plates 1/2" description of joint double butt if rings are fitted
 Greatest length between rings working pressure of furnace by the rules 109 combustion chamber plating, thickness, sides 7/16" back 7/16" top 7/16"
 Pitch of stays to ditto, sides 4 1/2" back 4 1/2" x 8" top 8" If stays are fitted with nuts or riveted heads working pressure of plating by rules 84 lbs
 Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 80 end plates in steam space, thickness 23/32"
 Pitch of stays to ditto 1-3 x 1-1 1/2" how stays are secured double nuts & washers working pressure by rules 93 diameter of stays at smallest part 1 1/4" working pressure by rules 107 Front plates at bottom, thickness 5/8" Back plates, thickness 5/8"
 Greatest pitch of stays 15" x 8" working pressure by rules 82 Diameter of tubes 2 3/4" pitch of tubes 3 3/4" thickness of tube plates, front 7/16" back 5/8" how stayed lutes pitch of stays 12" width of water spaces 12"
 Diameter of Superheater or Steam chest 2'-6" length 2-0 thickness of plates 7/16" description of longitudinal joint lap double diam. of rivet holes 7/8"
 Pitch of rivets 3 1/4" working pressure of shell by rules 100 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

Description of furnaces
plan

Lloyd's Register Foundation

459402

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.)

This boiler has been built in accordance with the Societies Rules & under the Surveyors inspection, it has been tested by hydraulic pressure to 160 lbs per sq. inch & at that pressure was found to be tight & sound.

The S.S. "Goroka" for which it is intended is unclassified.

Certificate as marked Lloyd's 14.8.90
H.B.P.C.

The amount of Entry Fee .. £ : : act 15/8/90
Special £ 2 : 2 : received by me, 12/30/91
Donkey Boiler Fee £ : :
Certificate (if required) .. £ : : 25/3/91
To be sent as per margin.

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

Committee's Minute

