

REPORT ON MACHINERY.

47786

No. _____ Port of London Received at London Office _____ 18
 No. in Survey held at _____ Date, first Survey _____ Last Survey _____ 18
 Reg. Book. _____ (Number of Visits _____)
 on the Boilers for P. S. Swift Tons _____
 Master _____ Built at _____ By whom built _____ When built _____
 Engines made at _____ By whom made _____ when made _____
 Boilers made at Leptford By whom made General St Navigation Co when made 1887
 Registered Horse Power _____ Owners General St San Co Port belonging to _____

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 moreable	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.—

Number of Boilers Two Description Circular Tubular Whether Steel or Iron Iron
 Working Pressure 60 lbs Tested by hydraulic pressure to 120 lbs Date of test Sept 24-87
 Description of superheating apparatus or steam chest Ordinary Circular longitudinal steam chest
 Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately So Superheater
 No. of square feet of fire grate surface in each boiler 55.75 Description of safety valves Adams Spring No. to each boiler Two
 Area of each valve 12.5664 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 on woodwork 5'-0" Diameter of boilers 12'-0 1/2"
 Length of boilers 9'-6" description of riveting of shell long. seams double circum. seams double Thickness of shell plates 7/8"
 Diameter of rivet holes 1 1/8" whether punched or drilled Punched pitch of rivets 3 1/2" Lap of plating 5 1/4"
 Per centage of strength of longitudinal joint 67.9 of 64.7 working pressure of shell by rules 66 lbs size of manholes in shell 14" x 10" & 8" x 5"
 Size of compensating rings 28" x 20" & 16" x 10" No. of Furnaces in each boiler Three
 Outside diameter 3'-0" length, top 6'-11" bottom _____ thickness of plates 1/2" description of joint double riv' Lap if rings are fitted So
 Greatest length between rings _____ working pressure of furnace by the rules 89 lbs combustion chamber plating, thickness, sides 7/16" back 7/16" top 7/16"
 Pitch of stays to ditto, sides 8 1/2" back 8 1/4" top 3 x 3 1/2" If stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 75 lbs Diameter of stays at smallest part 1 1/8" working pressure of ditto by rules 82 lbs end plates in steam space, thickness 5/8"
 Pitch of stays to ditto 15" how stays are secured Nuts & Washers working pressure by rules 2" under the diameter of stays at smallest part 2" under thread working pressure by rules 83 lbs Front plates at bottom, thickness 5/8" Back plates, thickness 5/8"
 Greatest pitch of stays 15" 16 1/2" working pressure by rules _____ Diameter of tubes 3" outside pitch of tubes 4 1/4" thickness of tube plates, front 1/16" back 1/16" how stayed St tubes pitch of stays 12 3/4" width of water spaces 1 1/4"
 Diameter of Superheater or Steam chest 2'-9 1/4" length 9'-0" thickness of plates 5/8" description of longitudinal joint Riveted diam. of rivet holes 3/4"
 Pitch of rivets 2" working pressure of shell by rules 218 lbs 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 5/8" how stayed by are 2 3/8"
Stay with nuts & washers Superheater or steam chest; how connected to boiler by 7/8 Rivets 3 3/4" pitch

London 1-0345

DONKEY BOILER—

Description

Made at

by whom made

Working pressure

tested by hydraulic pressure to

No. of Certificate

when made

where fixed

valves

No. of safety valves

area of each

fire grate area

description of safety

enter the donkey boiler

diameter of donkey boiler

length

if fitted with easing gear

if steam from main boilers can

Thickness of shell plates

diameter of rivet holes

whether punched or drilled

description of riveting

per centage of strength of joint

thickness of crown plates

stayed by

pitch of rivets

lap of plating

Diameter of furnace, top

bottom

length of furnace

thickness of plates

description of joint

Thickness of furnace crown plates

stayed by

Working pressure of furnace by rules

diameter of uptake

thickness of plates

working pressure of shell by rules

thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

R. Gough

Manufacturer.

General Remarks

(State quality of workmanship, opinions as to class, &c.)

The workmanship of these boilers is in my opinion of high class and I was well satisfied with their appearance under a water pressure of fully 120 lbs per sq in. I therefore consider them eligible for classification as + N.B. 10-87.

Submitted that this
boiler is eligible to have
the record + N.B. 87.

26.11.87

The amount of Entry Fee .. £

received by me.

Special .. £ 5 : 5 : 0

Donkey Boiler Fee .. £

Certificate (if required) .. £

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

TUESDAY 8 NOV 1887

J. Johnstone Bowne

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

+ N.B. 87

L. M.B. 10.87

