

enr. 12765
Glasgow No. 18071

REPORT ON MACHINERY

received from

Surveyor
29 JUN 1900

Port of

Glasgow

TUES. 3 JUL 1900

Received at London Office

Date, first Survey 17 March Last Survey 15 June 1900

(Number of Visits 5)

18

1900

Gross 4896.00

Tons 3216.81

Net 3216.81

No. in Survey held at
Reg. Book.

Glasgow

320 on the SS "Jupiter."

Master Alfonso Ugarte. Built at Port Glasgow by whom built Russell & Co (No 453) When built 1900

Engines made at Greenock By whom made Rankin & Blackmore when made 1900

Donkey Boiler made at Glasgow By whom made Lindsay Burnet & Co. when made 1900

Registered Horse Power Owners Francisco Martinez Rodas. Port belonging to Bilbao.

Nom. Horse Power as per Section 28 403 Is Refrigerating Machinery fitted no

Is Electric Light fitted no

ENGINES, &c.—Description of Engines

Dia. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule Dia. of Crank pin Dia. of Crank webs Dia. of stern bush

Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as fitted Dia. of Crank webs Dia. of stern bush

collars Dia. of screw Pitch of screw No. of blades State whether moveable Dia. of stern shaft under

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work Total surface

No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room In Holds, &c.

No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room of size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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 stowhold 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 and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication 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

Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 782 ft² Is forced draft fitted no

No. and Description of Boilers The single ended return tube Working Pressure 80 lbs Tested by hydraulic pressure to 160 lbs

Date of test 5/10/00 Can each boiler be worked separately Area of fire grate in each boiler 30 ft² No. and Description of safety valves to

each boiler Two direct spring Area of each valve 7.06 in. Pressure to which they are adjusted 80 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 10 ft dia. of boilers 10 ft Length 9 ft Material of shell plates Steel

Thickness 9/16 Range of tensile strength 27/32 Are they welded or flanged no Descrip. of riveting: cir. seams Topping long. seams Lap tubular

Diameter of rivet holes in long. seams 2/8 Pitch of rivets 3/8" Lap of plates 6/8

Per centages of strength of longitudinal joint 76.1 Working pressure of shell by rules 84 lbs Size of manhole in shell 16 x 12

Size of compensating ring 25 x 29 1/2 No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 35 3/4

Thickness of plain part top 35-6 Thickness of plates crown 7/16" Description of longitudinal joint welded No. of strengthening rings none

Thickness of plates bottom 35-6 Area supported by stay 90 1/2" Working pressure by rules 85 lbs End plates in steam space

Working pressure of furnace by the rules 86 Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 15 Top 7/16 Bottom 5/8" Working pressure by rules 107.86-95

Thickness of stays to ditto: Sides 9 x 10" Back 9 x 9 Top 9 x 12 If stays are fitted with nuts or riveted heads into inside Working pressure by rules 85 lbs

Thickness of stays 1/2" Area supported by stay 90 1/2" Working pressure by rules 85 lbs

Thickness of stays 1/2" Pitch of stays 14 1/4" How are stays secured 2 nuts Working pressure by rules 80 lbs Material of stays Steel

Thickness of stays at smallest part 2.03 Area supported by each stay 292" Working pressure by rules 94 lbs Material of Front plates at bottom Steel

Thickness of stays 4/16" Material of Lower back plate Steel Thickness 9/16 Greatest pitch of stays 9 x 9" Working pressure of plate by rules 105 lbs

Thickness of tubes 3 1/2" Pitch of tubes 4 5/8 x 4 3/4" Material of tube plates Steel Thickness: Front 4/16" Back 4/16" Mean pitch of stays 13"

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Pitch of tubes 4 5/8 x 4 3/4" Material of tube plates Steel Thickness: Front

18071

DONKEY BOILER—		No.	Description	When made	Where fixed
Made at	By whom made				
Working pressure	tested by hydraulic pressure to	No. of Certificate	Fire grate area	Description of safety valves	
No. of safety valves	Area of each	Pressure to which they are adjusted	If fitted with easing gear	If steam from main boilers can enter the donkey boiler no.	
Strength	Dia. of donkey boiler	Length	Material of shell plates	Thickness	Range of tensile strength
Lap of plating	Per centage of strength of joint	Rivets Plates	Thickness of shell crown plates	Radius of do.	No. of Stays to do.
Dia. of stays,	Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of Working pressure of shell by rules
joint	Thickness of furnace crown plates	Stayed by	Diameter of uptake	Thickness of uptake plates	Thickness of water tubes
Working pressure of furnace by rules					

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,
Hindey & Turner & Co Manufacturers.

Dates of Survey while building
 During progress of work in shops
 During erection on board vessel
 Total No. of visits

1900:- March. 17. April. 20. May. 3. 16. June. 15.

7 Vis.

Is the approved plan of main boiler forwarded herewith

donkey ..

✓
Yes

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

This boiler has been constructed under special survey the materials and workmanship are of good description

The boiler has now been forwarded to Greenock where it is to be fitted on board

Certificates (if required) to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ..	£	:	When applied for.
Special	£	:	25/6/900
Donkey Boiler Fee	£	2	When received.
Travelling Expenses (if any)	£	:	27/6/900

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

Committee's Minute Glasgow. 2 JUL 1900

Assigned

Stewart & Son

Deferred for completion



Lloyd's Register
Foundation