

REPORT ON MACHINERY.

No. 15854
WED. 24 AUG 1910

Received at London Office

Date of writing Report 21/7/1910 When handed in at Local Office Port of Greenock.
 No. in Survey held at Greenock. Date, First Survey 8th June Last Survey 25th July 1910
 Reg. Book on the Steamer "BARSHAW" (Number of Visits 4) Gross 794 Tons Net 360
 Master Built at Greenock. By whom built The Greenock & Gt. G. B. Co. When built 1910
 Engines made at Glasgow. By whom made David Rowan & Co when made 1910
 Boilers made at do By whom made do when made 1910
 Registered Horse Power Owners John Muir Paton Port belonging to Glasgow.
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines

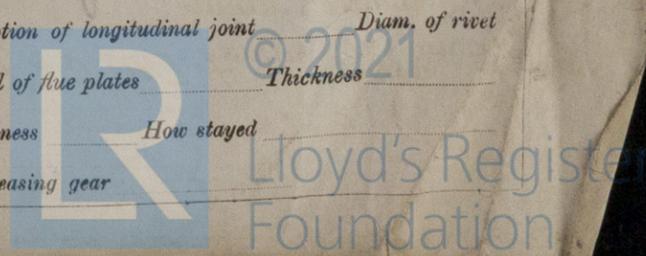
| Description of Engines | | No. of Cylinders | No. of Cranks |
|---|--|---|--|
| Dia. of Cylinders | Length of Stroke | Revs. per minute | Dia. of Screw shaft as per rule / as fitted |
| Is the screw shaft fitted with a continuous liner the whole length of the stern tube | | Is the after end of the liner made water tight | |
| in the propeller boss | | If the liner does not fit tightly at the part | |
| If the liner is in more than one length are the joints burned | | If the liner does not fit tightly at the part | |
| between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive | | If two | |
| liners are fitted, is the shaft lapped or protected between the liners | | Length of stern bush | |
| Dia. of Tunnel shaft as per rule / as fitted | Dia. of Crank shaft journals as per rule / as fitted | Dia. of Crank pin | Size of Crank webs |
| collars | Dia. 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 |
| 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 & 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 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 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 Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 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
 Dates of examination of completion of fitting of Sea Connections 25-7-10 of Stern Tube 25-7-10 Screw shaft and Propeller 25-7-10
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel

| Total Heating Surface of Boilers | | Is Forced Draft fitted | No. and Description of Boilers | |
|--|---|---|--|----------------------------|
| Working Pressure | Tested by hydraulic pressure to | Date of test | No. of Certificate | |
| Can each boiler be worked separately | Area of fire grate in each boiler | No. and Description of Safety Valves to | | |
| each boiler | Area of each valve | Pressure to which they are adjusted | Are they fitted with easing gear | |
| Smallest distance between boilers or uptakes and bunkers or woodwork | Mean dia. of boilers | Length | Material of shell plates | |
| Thickness | Range of tensile strength | Are the shell plates welded or flanged | Descrip. of riveting: cir. seams | |
| Long. seams | Diameter of rivet holes in long. seams | Pitch of rivets | Lap of plates or width of butt straps | |
| Per centages of strength of longitudinal joint | Working pressure of shell by rules | Size of manhole in shell | | |
| Size of compensating ring | No. and Description of Furnaces in each boiler | | Material | Outside diameter |
| Length of plain part top / bottom | Thickness of plates crown / bottom | Description of longitudinal joint | | No. of strengthening rings |
| Working pressure of furnace by the rules | Combustion chamber plates: Material | Thickness: Sides | Back | Top / Bottom |
| Pitch of stays to ditto: Sides | Back | Top | If stays are fitted with nuts or riveted heads | |
| Working pressure by rules | End plates in steam space: | | | |
| Material of stays | Diameter at smallest part | Area supported by each stay | Working pressure by rules | Material of stays |
| Material | Thickness | Pitch of stays | How are stays secured | Working pressure by rules |
| Diameter at smallest part | Area supported by each stay | Working pressure by rules | Material of Front plates at bottom | |
| Thickness | Material of Lower back plate | Thickness | Greatest pitch of stays | |
| Working pressure of plate by rules | | | | |
| Diameter of tubes | Pitch of tubes | Material of tube plates | Thickness: Front | Back / Mean pitch of stays |
| Pitch across wide water spaces | Working pressures by rules | Girders to Chamber tops: Material | | Depth and |
| Thickness of girder at centre | Length as per rule | Distance apart | Number and pitch of stays in each | |
| Working pressure by rules | Superheater or Steam chest; how connected to boiler | Can the superheater be shut off and the boiler worked | | |
| separately | Diameter | Length | Thickness of shell plates | Material |
| Description of longitudinal joint | | Diam. of rivet | | |
| Material | Pitch of rivets | Working pressure of shell by rules | Diameter of flue | Material of flue plates |
| Thickness | | | | |
| stiffened with rings | Distance between rings | Working pressure by rules | End plates: Thickness | |
| How stayed | | | | |
| Working pressure of end plates | Area of safety valves to superheater | Are they fitted with easing gear | | |

W139-0150



VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety Valves _____

Values _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

Working pressure of shell by rules _____ 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 joint _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building } During progress of work in shops - - } 1910 June 8-16. July 6-25.
 } During erection on board vessel - - }
 Total No. of visits 4.

Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____ Pistons _____ Rods _____

Connecting rods _____ Crank shaft _____ Thrust shaft _____ Tunnel shafts _____ Screw shaft _____ Propeller _____

Stern tube _____ Steam pipes tested _____ Engine and boiler seatings _____ Engines holding down bolts _____

Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____

Main boiler safety valves adjusted _____ Thickness of adjusting washers _____

Material of Crank shaft _____ Identification Mark on Do. _____ Material of Thrust shaft _____ Identification Mark on Do. _____

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____

Material of Steam Pipes _____ Test pressure _____

General Remarks (State quality of workmanship, opinions as to class, &c. *The propeller, stern tube, and fittings of sea connections examined before launching and found in order.*)

The amount of Entry Fee .. £ : : When applied for, _____

Special .. £ : :19.....

Donkey Boiler Fee .. £ : : When received, _____

Travelling Expenses (if any) £ : :19.....

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

Committee's Minute **GLASGOW** 23 AUG. 1910

Assigned See minute on
 Gls. Rpt. No. 29221

These parts

Signal Letters

Official Number

1295

No., Date, and Place

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged

Stern

Build

Galleries

Head

Framework and vessel

Number of Bulkheads

Number of water tanks and their capacity

Total to quarter the depth to bottom of keel

No. of sets of Engines. Description

One triple

No. of Shafts. Particulars

One Description & Number Iron or Steel Loaded Press

Gross Tonnage

Under Tonnage

Space or spaces between Turret or Tank

Forecastle

Bridge space

Peep or Break

Side Houses

Deck Houses

Chart Houses

Spaces for machinery Section 78 (2) of 1894.

Excess of Hatchway

Gross Tonnage Deductions, as per Register

NOTE.—The only spaces

Open forecabin less chain locker

Name of

No. of Owners

Name, Residence, *M.O. John*

Dated *4/11/10*

30) (65181) Wt. 535

Certificate (if required) to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.
 S.H.H. 27-8-10.

