

REPORT ON MACHINERY.

Received at London Office

Date of writing Report 26th June 1915 When handed in at Local Office 30th June 1915 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 12th Dec 1912 Last Survey 23rd June 1915

Reg. Book. on the Machinery of the Steamer Prince Edward Island (Number of Visits)

Master Built at Newcastle By whom built Armstrong Whitworth & Co. When built 1914

Engines made at Newcastle By whom made Wallend Shipway & Co. When made 1915

Boilers made at " By whom made " when made 1915

Registered Horse Power Owners Canadian Government Port belonging to Charlottetown PEI

Nom. Horse Power as per Section 28 1014 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Single Triple (forward) No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 21", 33 1/2", 54" Length of Stroke 36" Revs. per minute 125 Dia. of Screw shaft as per rule 11.42 Material of shaft as fitted 13 3/8 screws shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liner Is the after end of the liner made water tight in the propeller boss

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 5'-3"

Dia. of Tunnel shaft as per rule 10.18 Dia. of Crank shaft journals as per rule 10.68 Dia. of Crank pin 12" Size of Crank webs 20x8" Dia. of thrust shaft under collars 12" Dia. of screw 11.0" Pitch of Screw 15'-6" No. of Blades 4 State whether moveable Yes Total surface 40 sq ft

No. of Feed pumps 2 Diameter of ditto 7" Stroke 21" Can one be overhauled while the other is at work

No. of Bilge pumps 2 Diameter of ditto 4 1/4" Stroke 18" Can one be overhauled while the other is at work Yes

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

In Engine Room See report on twin engines 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 Are they Valves or Cocks

Are they sized 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 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 of Stern Tube Screw shaft and Propeller

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 rivets 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 Thickness of plates crown 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

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If 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



IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end & 2 bottom end bolts 2 main bearing bolts
1 set of coupling bolts, 1 set of feed & bilge pump valves
1 set of piston springs, a quantity of assorted bolts nuts
& iron, 2 propeller blades, 1 set of bottom end bearings
an pump bucket & rod, head valve set & guard, impeller
& spindle, propeller shaft & minor details.

The foregoing is a correct description.

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

W. W. Laming

Manufacturer.

DIRECTOR.

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

See Report on After Iron Engine.

Is the approved plan of main boiler forwarded herewith.

" " " donkey "

Dates of Examination of principal parts—Cylinders 29/7/14 Slides 25/9/14 Covers 22/9/14 Pistons 14/7/14 Rods 10/9/14
Connecting rods 10/9/14 Crank shaft 22/9/14 Thrust shaft 30/7/14 Tunnel shafts 30/7/14 Screw shaft 29/7/14 Propeller 13/7/14
Stern tube 30/7/14 Steam pipes tested 11/6/14 Engine and boiler seatings 6/10/14 Engines holding down bolts 19/11/14
Completion of pumping arrangements 21/5/15 Boilers fixed 22/10/14 Engines tried under steam See report on twin engine

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

Is an installation fitted for burning oil fuel. Is the flash point of the oil to be used over 150°F.

Have requirements of Section 49 of the Rules been complied with.

Is this machinery duplicate of a previous case. If so, state name of vessel

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

[Large section of the form is crossed out with a large 'X' and contains no legible text.]

The amount of Entry Fee ... £	When applied for,
Special ... £	10
Donkey Boiler Fee ... £	When received,
Travelling Expenses (if any) £	10

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

TUE JUL 6 - 1915

Committee's Minute

Assigned

The Surrogates are required to sign in the space for Committee's Minute.

