

## REPORT ON MACHINERY.

No. 67703

Received at London Office

Date of writing Report 26<sup>th</sup> June 1915 When handed in at Local Office 30<sup>th</sup> June 1915 Port of NEWCASTLE-ON-TYNE  
 No. in Survey held at Newcastle Date, First Survey 12<sup>th</sup> Dec 1912 Last Survey 23<sup>rd</sup> June 1915  
 Reg. Book. on the Machinery of the Steamer "Prince Edward Island" (Number of Vessels) Gross 258 2795 Net 1110  
 Master Built at Newcastle By whom built Armstrong Whitworth & Co When built 1914  
 Engines made at Newcastle By whom made Wallace & Shipway & Co When made 1915  
 Boilers made at " By whom made " when made 1915  
 Registered Horse Power 1014 Owners Canadian Government Port belonging to Charlottetown  
 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 1/2" Material of Steel  
 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 1/8" Dia. of Crank shaft journals as per rule 10 1/8" 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 size 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 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 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 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 Thickness of plates 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.

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 engines*

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.

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

When received,

TUE JUL 6-1915

Committee's Minute

Assigned

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



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Foundation