

REPORT ON MACHINERY.

No. 24118

TUES. 26 JUN 1906

Port of Glasgow

Received at London Office

19

No. in Survey held at

Glasgow

Date, first Survey 1st Febry 05Last Survey 29th May 1906

Reg. Book.

38 Sup. on the Steel Twin Sc. Steamer "Empress of Ireland."

(Number of Visits)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Fairfield S & E. Co Lim.

When built

1906

Engines made at

Glasgow

By whom made

The Fairfield S. & Eng. Co Lim

when made

1906

Boilers made at

do

By whom made

do

when made

1906

Registered Horse Power

Owners

Canadian Pacific Railway Co

Port belonging to

Liverpool

Nom. Horse Power as per Section 28

3168

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines Quadruple Expansion Twin Screw. No. of Cylinders Eight No. of Cranks Eight

Dia. of Cylinders 36:52:75:108 Length of Stroke 69" Revs. per minute 81 Dia. of Screw shaft as per rule 20.76 Material of screw shaft as fitted 23" Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes. Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned Yes. 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 7'9"

Dia. of Tunnel shaft as per rule 19.41 Dia. of Crank shaft journals as per rule 20.38 Dia. of Crank pin 22 1/2" Size of Crank webs 15 1/2 x 40 Dia. of thrust shaft under

collars 22 Dia. of screw 20.6 Pitch of Screw 24.9 No. of Blades 4 State whether moveable Yes Total surface 120 active & 91 1/2 projected propeller

No. of Feed pumps Four Diameter of ditto 12 1/2 Stroke 24 Can one be overhauled while the other is at work Yes.

No. of Bilge pumps 2 Diameter of ditto 4 Stroke 9 Can one be overhauled while the other is at work Yes.

No. of Donkey Engines Three Sizes of Pumps { 15 x 11 1/2, 15 x 11 1/2, 15 x 11 1/2 and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 3 1/2 & Two 4" In Hold, &c. No. 1. Two 3" No. 2. Two 3 1/2" No. 3. Two 3 1/2"

Aft. 3 1/2" Is hat suction on tank top. 3 1/2" tunnel hold suction.

No. of Bilge Injections Two sizes 16 1/2 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Two 3 1/2"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None.

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Larger valves, smaller cocks.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes. Are the Discharge Pipes above or below the deep water line Above.

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 Some forward bilge & ballast How are they protected Strong wooden casings

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes.

Dates of examination of completion of fitting of Sea Connections 23.1.06 of Stern Tube 23.1.06 Screw shaft and Propeller 23.1.06

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper Eng. Rm. Station

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

Total Heating Surface of Boilers 47141 Is Forced Draft fitted Yes. No. and Description of Boilers Six Double & Three Single Ended

Working Pressure 220 lbs Tested by hydraulic pressure to 440 lbs Dates of tests 9.12.05, 12.12.05, 13.12.05, 14.12.05, 15.12.05, 16.12.05, 17.12.05, 18.12.05, 19.12.05, 20.12.05, 21.12.05, 22.12.05, 23.12.05, 24.12.05, 25.12.05, 26.12.05, 27.12.05, 28.12.05, 29.12.05, 30.12.05, 31.12.05, 1.1.06, 2.1.06, 3.1.06, 4.1.06, 5.1.06, 6.1.06, 7.1.06, 8.1.06, 9.1.06, 10.1.06, 11.1.06, 12.1.06, 13.1.06, 14.1.06, 15.1.06, 16.1.06, 17.1.06, 18.1.06, 19.1.06, 20.1.06, 21.1.06, 22.1.06, 23.1.06, 24.1.06, 25.1.06, 26.1.06, 27.1.06, 28.1.06, 29.1.06, 30.1.06, 31.1.06, 1.2.06, 2.2.06, 3.2.06, 4.2.06, 5.2.06, 6.2.06, 7.2.06, 8.2.06, 9.2.06, 10.2.06, 11.2.06, 12.2.06, 13.2.06, 14.2.06, 15.2.06, 16.2.06, 17.2.06, 18.2.06, 19.2.06, 20.2.06, 21.2.06, 22.2.06, 23.2.06, 24.2.06, 25.2.06, 26.2.06, 27.2.06, 28.2.06, 29.2.06, 30.2.06, 31.2.06, 1.3.06, 2.3.06, 3.3.06, 4.3.06, 5.3.06, 6.3.06, 7.3.06, 8.3.06, 9.3.06, 10.3.06, 11.3.06, 12.3.06, 13.3.06, 14.3.06, 15.3.06, 16.3.06, 17.3.06, 18.3.06, 19.3.06, 20.3.06, 21.3.06, 22.3.06, 23.3.06, 24.3.06, 25.3.06, 26.3.06, 27.3.06, 28.3.06, 29.3.06, 30.3.06, 31.3.06, 1.4.06, 2.4.06, 3.4.06, 4.4.06, 5.4.06, 6.4.06, 7.4.06, 8.4.06, 9.4.06, 10.4.06, 11.4.06, 12.4.06, 13.4.06, 14.4.06, 15.4.06, 16.4.06, 17.4.06, 18.4.06, 19.4.06, 20.4.06, 21.4.06, 22.4.06, 23.4.06, 24.4.06, 25.4.06, 26.4.06, 27.4.06, 28.4.06, 29.4.06, 30.4.06, 31.4.06, 1.5.06, 2.5.06, 3.5.06, 4.5.06, 5.5.06, 6.5.06, 7.5.06, 8.5.06, 9.5.06, 10.5.06, 11.5.06, 12.5.06, 13.5.06, 14.5.06, 15.5.06, 16.5.06, 17.5.06, 18.5.06, 19.5.06, 20.5.06, 21.5.06, 22.5.06, 23.5.06, 24.5.06, 25.5.06, 26.5.06, 27.5.06, 28.5.06, 29.5.06, 30.5.06, 31.5.06, 1.6.06, 2.6.06, 3.6.06, 4.6.06, 5.6.06, 6.6.06, 7.6.06, 8.6.06, 9.6.06, 10.6.06, 11.6.06, 12.6.06, 13.6.06, 14.6.06, 15.6.06, 16.6.06, 17.6.06, 18.6.06, 19.6.06, 20.6.06, 21.6.06, 22.6.06, 23.6.06, 24.6.06, 25.6.06, 26.6.06, 27.6.06, 28.6.06, 29.6.06, 30.6.06, 31.6.06, 1.7.06, 2.7.06, 3.7.06, 4.7.06, 5.7.06, 6.7.06, 7.7.06, 8.7.06, 9.7.06, 10.7.06, 11.7.06, 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4.6.07, 5.6.07, 6.6.07, 7.6.07, 8.6.07, 9.6.07, 10.6.07, 11.6.07, 12.6.07, 13.6.07, 14.6.07, 15.6.07, 16.6.07, 17.6.07, 18.6.07, 19.6.07, 20.6.07, 21.6.07, 22.6.07, 23.6.07, 24.6.07, 25.6.07, 26.6.07, 27.6.07, 28.6.07, 29.6.07, 30.6.07, 31.6.07, 1.7.07, 2.7.07, 3.7.07, 4.7.07, 5.7.07, 6.7.07, 7.7.07, 8.7.07, 9.7.07, 10.7.07, 11.7.07, 12.7.07, 13.7.07, 14.7.07, 15.7.07, 16.7.07, 17.7.07, 18.7.07, 19.7.07, 20.7.07, 21.7.07, 22.7.07, 23.7.07, 24.7.07, 25.7.07, 26.7.07, 27.7.07, 28.7.07, 29.7.07, 30.7.07, 31.7.07, 1.8.07, 2.8.07, 3.8.07, 4.8.07, 5.8.07, 6.8.07, 7.8.07, 8.8.07, 9.8.07, 10.8.07, 11.8.07, 12.8.07, 13.8.07, 14.8.07, 15.8.07, 16.8.07, 17.8.07, 18.8.07, 19.8.07, 20.8.07, 21.8.07, 22.8.07, 23.8.07, 24.8.07, 25.8.07, 26.8.07, 27.8.07, 28.8.07, 29.8.07, 30.8.07, 31.8.07, 1.9.07, 2.9.07, 3.9.07, 4.9.07, 5.9.07, 6.9.07, 7.9.07, 8.9.07, 9.9.07, 10.9.07, 11.9.07, 12.9.07, 13.9.07, 14.9.07, 15.9.07, 16.9.07, 17.9.07, 18.9.07, 19.9.07, 20.9.07, 21.9.07, 22.9.07, 23.9.07, 24.9.07, 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5.1.08, 6.1.08, 7.1.08, 8.1.08, 9.1.08, 10.1.08, 11.1.08, 12.1.08, 13.1.08, 14.1.08, 15.1.08, 16.1.08, 17.1.08, 18.1.08, 19.1.08, 20.1.08, 21.1.08, 22.1.08, 23.1.08, 24.1.08, 25.1.08, 26.1.08, 27.1.08, 28.1.08, 29.1.08, 30.1.08, 31.1.08, 1.2.08, 2.2.08, 3.2.08, 4.2.08, 5.2.08, 6.2.08, 7.2.08, 8.2.08, 9.2.08, 10.2.08, 11.2.08, 12.2.08, 13.2.08, 14.2.08, 15.2.08, 16.2.08, 17.2.08, 18.2.08, 19.2.08, 20.2.08, 21.2.08, 22.2.08, 23.2.08, 24.2.08, 25.2.08, 26.2.08, 27.2.08, 28.2.08, 29.2.08, 30.2.08, 31.2.08, 1.3.08, 2.3.08, 3.3.08, 4.3.08, 5.3.08, 6.3.08, 7.3.08, 8.3.08, 9.3.08, 10.3.08, 11.3.08, 12.3.08, 13.3.08, 14.3.08, 15.3.08, 16.3.08, 17.3.08, 18.3.08, 19.3.08, 20.3.08, 21.3.08, 22.3.08, 23.3.08, 24.3.08, 25.3.08, 26.3.08, 27.3.08, 28.3.08, 29.3.08, 30.3.08, 31.3.08, 1.4.08, 2.4.08, 3.4.08, 4.4.08, 5.4.08, 6.4.08, 7.4.08, 8.4.08, 9.4.08, 10.4.08, 11.4.08, 12.4.08, 13.4.08, 14.4.08, 15.4.08, 16.4.08, 17.4.08, 18.4.08, 19.4.08, 20.4.08, 21.4.08, 22.4.08, 23.4.08, 24.4.08, 25.4.08, 26.4.08, 27.4.08, 28.4.08, 29.4.08, 30.4.08, 31.4.08, 1.5.08, 2.5.08, 3.5.08, 4.5.08, 5.5.08, 6.5.08, 7.5.08, 8.5.08, 9.5.08, 10.5.08, 11.5.08, 12.5.08, 13.5.08, 14.5.08, 15.5.08, 16.5.08, 17.5.08, 18.5.08, 19.5.08, 20.5.08, 21.5.08, 22.5.08, 23.5.08, 24.5.08, 25.5.08, 26.5.08, 27.5.08, 28.5.08, 29.5.08, 30.5.08, 31.5.08, 1.6.08, 2.6.08, 3.6.08, 4.6.08, 5.6.08, 6.6.08, 7.6.08, 8.6.08, 9.6.08, 10.6.08, 11.6.08, 12.6.08, 13.6.08, 14.6.08, 15.6.08, 16.6.08, 17.6.08, 18.6.08, 19.6.08, 20.6.08, 21.6.08, 22.6.08, 23.6.08, 24.6.08, 25.6.08, 26.6.08, 27.6.08, 28.6.08, 29.6.08, 30.6.08, 31.6.08, 1.7.08, 2.7.08, 3.7.08, 4.7.08, 5.7.08, 6.7.08, 7.7.08, 8.7.08, 9.7.08, 10.7.08, 11.7.08, 12.7.08, 13.7.08, 14.7.08, 15.7.08, 16.7.08, 17.7.08, 18.7.08, 19.7.08, 20.7.08, 21.7.08, 22.7.08, 23.7.08, 24.7.08, 25.7.08, 26.7.08, 27.7.08, 28.7.08, 29.7.08, 30.7.08, 31.7.08, 1.8.08, 2.8.08, 3.8.08, 4.8.08, 5.8.08, 6.8.08, 7.8.08, 8.8.08, 9.8.08, 10.8.08, 11.8.08, 12.8.08, 13.8.08, 14.8.08, 15.8.08, 16.8.08, 17.8.08, 18.8.08, 19.8.08, 20.8.08, 21.8.08, 22.8.08, 23.8.08, 24.8.08, 25.8.08, 26.8.08, 27.8.08, 28.8.08, 29.8.08, 30.8.08, 31.8.08, 1.9.08, 2.9.08, 3.9.08, 4.9.08, 5.9.08, 6.9.08, 7.9.08, 8.9.08, 9.9.08, 1

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	
Valees	No. of Safety Valees	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:— Two main bearing bolts. Two connecting rod bolts. Two crank pin bolts. 24 Coupling bolts. Feed & bilge pump valves. Four large & two small safety valve springs. Packing for each piston & piston valve. Piston rod complete. Crank pin & cross head bolsters. Two valve springs. Two eccentric shaft rods. Condenser tubes. Bolts & nuts for various parts. Valves for all pumps.

The foregoing is a correct description, ascertained from & drawn & bolts. Boiler tubes etc.

MANUFACTURERS OF STEEL

During progress of work in shops—
 Dates of Survey while building
 During erection on board vessel
 Total No. of visits 57

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 1.11.05 Slides 1.11.05 Covers 30.1.06 Pistons 1.11.05 Rods 30.1.06
 Connecting rods 30.1.06 Crank shaft 19.1.06 Thrust shaft 17.1.06 Tunnel shafts 13.12.05 Screw shaft 13.12.06 Propeller 23.1.06
 Stern tube 13.12.05 Steam pipes tested 28.11.05 Engine and boiler seatings 24.2.06 Engines holding down bolts 12.3.06
 Completion of pumping arrangements 7.5.06 Boilers fixed 12.3.06 Engines tried under steam 27.4.06
 Main boiler safety valves adjusted 27.4.06 Thickness of adjusting washers 1/16 to 1/8
 Material of Crank shaft Steel Identification Mark on Do. 10663 Material of Thrust shaft Steel Identification Mark on Do. 10663
 Material of Tunnel shafts Steel Identification Marks on Do. 10702 Material of Screw shafts Steel Identification Marks on Do. 10702
 Material of Steam Pipes Steel & Iron Test pressure 660 lb

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

These engines & boilers have been made & fitted under special survey. The Rules have been complied with & the workmanship found good.

The engines are arranged on the Galloway & Imlay balanced design. No pumps are worked off the main engine. Four centrifugal circulating pumps 9 1/2 cys x 9 strokes x 45 impellers are fitted. Two twin air pumps 11 cys x 31 pumps x 16 strokes. Auxiliary circulating & air pumps are also fitted.

The machinery is duplicate of that fitted in the sister vessel "Empress of Britain".

It is submitted that the machinery is eligible for the notation + M.C. 506 in the Register.

It is submitted that this vessel is eligible for THE RECORD M.C. 506 F.D. ELEC. LIGHT.

The amount of Entry Fee... £ 3 : — :
 Special... £ 178 : 8 :
 Donkey Boiler Fee... £ : :
 Travelling Expenses (if any) £ : :
 Glasgow 25 JUN 1906

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

Committee's Minute

Assigned

+ L.M.B. 5.06

MACHINERY CERTIFICATE
 WRITTEN 18.6.06



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