

Received at London Office

18 JUN 1930

Date of writing Report _____ 191 ____ When handed in at Local Office 11 6 191³⁰ Port of *Glasgow*

No. in Survey held at *Glasgow* Date, First Survey 7-9-28 Last Survey *6th June* 1930.
Reg. Blk. *40199* on the *Swire S.S. "Empress of Japan"* Number of Visits *211* Tons { Gross *26,032.28*
Net *15,426.35*

Master _____ Built at *Glasgow* By whom built *Fairfield S.P. & Eng Co Ltd.* When built *1930*

Engines made at *Glasgow* By whom made *do.* When made *1930*

Boilers made at *do* By whom made *do.* When made *1930*

Registered Horse Power *6475* Owners *Canadian Pacific Railway Co.* Port belonging to *London*

WATER TUBE BOILERS—MAIN, ~~AUXILIARY, OR DONKEY~~.—Manufacturers of Steel *J. Brown & Co Ltd. Sheffield*

(Letter for Record S) Date of Approval of plan 9.8.29 + 11.1.29 Number and Description or Type 10.5.29: 8.7.29.
 of Boilers Six Jume Working Pressure 425 Tested by Hydraulic Pressure to 688 Date of Test 30.5.29: 6.8.29.
 No. of Certificate 18317: 18351. Can each boiler be worked separately. Yps. Total Heating Surface of Boilers 52950 sq 18.6.29: 26.8.29.
 Is forced draught fitted Yps. Area of fire grate (coal) in each Boiler 611 sq ft Total grate area of boilers in vessel including
 Main and Auxiliary Yps. No. and type of burners (oil) in each boiler 6 Wallstead. Pressure No. and description of safety valves on
 each boiler 2 Improved His lift on Lap test drum Area of each valve 9.62 Pressure to which they are adjusted 425
 Are they fitted with easing gear. Yps. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Yps.
 Smallest distance between boilers or uptakes and bunkers or woodwork 14" Height of Boiler 26'-4" Width and Length 24'-4" x 21'-11"
 Steam Drums:—Number in each boiler One Inside diameter 53" Material of plates S Thickness 2"
 Range of Tensile Strength 34-38 tons Are drum shell plates welded or flanged Solid forged Description of riveting:—
 Cir. seams / long. seams / Diameter of rivet holes in long. seams / Pitch of Rivets /
 Lap of plate or width of butt straps / Thickness of straps / Percentage strength of long. joint:—Plate / Rivet /
 Diameter of tube holes in drum 2' x 1 1/4 Pitch of tube holes 3' x 1 1/8 Percentage strength of shell in way of tubes 33.3
 If Drum has a flat side state method of staying No. Depth and thickness of girders at centre
 (if fitted) / Distance apart / Number and pitch of stays in each / Working pressure
 by rules / Steam Drum Heads or Ends:—Material Solid forged Thickness 2" x 3" Radius or how stayed 14 1/4"
 Size of Manhole or Handhole 16 x 12 Water Drums:—Number in each boiler 3 Inside Diameter 53": 23 x 23.
 Material of plates S Thickness 1 1/2" x 1 1/4 Range of tensile strength 28-32 tons Are drum shell plates welded
 or flanged Solid forged Description of riveting:—Cir. seams / long. seams / Diameter of Rivet Holes in
 long. seams / Pitch of rivets / Lap of plates or width of butt straps / Thickness of straps /
 Percentage strength of long. joint:—Plate / Rivet / Diameter of tube holes in drum 2' x 1 1/4 Pitch of tube holes 3' x 1 1/8
 Percentage strength of drum shell in way of tubes 33.3 Water Drum Heads or Ends:—Material / Thickness /
 Radius or how stayed / Size of manhole or handhole 16 x 12 Headers or Sections:—Number /
 Material / Thickness / Tested by Hydraulic Pressure to / Material of Stays /
 Area at smallest part / Area supported by each stay / Working Pressure by Rules / Tubes:—Diameter 2' x 1 1/4
 Thickness 198 + 159 11W4 Number 449 1615 Steam Dome or Collector:—Description of Joint to Shell /
 Percentage strength of Joint / Diameter / Thickness of shell plates / Material /
 Description of longitudinal joint / Diameter of Rivet Holes / Pitch of Rivets / Working Pressure of shell
 by Rules / Crown or End Plates:—Material / Thickness / How stayed /

SUPERHEATER. Type *Yankee* Date of Approval of Plan *11-1-29* Tested by Hydraulic Pressure to *688 lb.*
 Date of Test *10-4-29* *23-9-29* *18-10-29* *21-11-29* a safety valve fitted to each section of the superheater which can be shut off from the Boiler *Yes (No shut off valve fitted)*
 Diameter of Safety Valve *See above.* Pressure to which each is adjusted *—* Is casing gear fitted *—*
 Is a drain cock or valve fitted at lowest point of superheater *Yes* Number, diameter, and thickness of tubes *450. 1 1/2. 9Wg.*
 Spare Gear. Tubes *540.* Gaskets or joints:—Manhole *joints (Sufficient)* Handhole plates *✓*

FOR THE FAIRFIELD SHIPBUILDING
AND ENGINEERING CO.

The foregoing is a correct description,

R. Strachan
MANAGER

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	See accompanying machy report	Is the approved plan of boiler forwarded herewith
	During erection on board vessel - - -		Total No. of visits. 2 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special Survey and in accordance with Rules. The Materials and workmanship are good. They have been tested by hydraulic pressure and found tight and afterwards placed on board and efficiently secured in position.

NOTE: A row of links in Superheaters have been removed and holes in drums efficiently plugged.

Survey Fee	£	:	:	} When applied for,	191
Travelling Expenses (if any)	£	:	:	:	} When received,		

Comm. for Lieut. R. Rae.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 JUN 1930

Assigned See accompanying machy report



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Foundation