

REPORT ON BOILERS.

No. 2784

Date of writing Report Oct 30 1930 When handed in at Local Office Oct 30 1930 Received at London Office 5 FEB 1931
 No. in Survey held at Vancouver Date, First Survey Aug. 9. 1930 Last Survey Oct. 29 1930
 Reg. Book on the Prince Rupert Hull No 36 "Canadian National No. 109" (Number of Visits 8)
 Master P. Rupert Built at P. Rupert By whom built P. Rupert & Co. When built 1930
 Boilers made at Vancouver By whom made Vulcan Iron Works When made 1930
 Owners Can National Railway Co. Port belonging to New Westminster

VERTICAL DONKEY BOILER— No. one Description Vertical tube Manufacturers of steel U.S. Steel Co.
 Made at Pittsburg By whom made Carnegie Steel Co. When made 1930 Where fixed On Deck 44 Working pressure 125
 tested by hydraulic pressure to 238 Date of test Oct 29 No. of Certificate 51 Fire grate area 82 Description of safety valves Two main donkey
 No. of safety valves one Area of each 1.767 Pressure to which they are adjusted 125 If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No
 Dia. of donkey boiler 47-25 Length 7.976 Material of shell plates SHS Thickness 3/8 Range of tensile strength 28-32 Descrip. of riveting Vertical seams double Dia. of rivet holes 13/16 Whether punched or drilled drilled Pitch of rivets 2 9/16
 Lap of plating 3 7/8 Per centage of strength of joint 83 Rivets 68 Working pressure of shell by rules 139 Thickness of shell crown plates 9/16
 Radius of do. flat No. of Stays to do. 18 diagonal area of stays 1.57 Diameter of furnace Top 41 3/4 Bottom 41 3/4 height Length of furnace 2-8 1/16
 Thickness of furnace plates 2 Description of joint Single riveted Working pressure of furnace by rules 139 Thickness of furnace crown plates 9/16 Radius of do. flat Stayed by stay tubes Diameter of uptake 24 Thickness of uptake plates 10-GG
 Thickness of water tubes 10 to 12 1/2

The foregoing is a correct description.
Vulcan Engineering Works Ltd. Manufacturer.
S. Pittman Chief Engineer

Dates of Survey while building
 During progress of work in shops— Aug 9, 25, 27, Sep 11, 24, Oct 6, 22, 29
 During erection on board vessel— Dec 3 & 4, Jan 7, 1931
 Total No. of visits 11

Is the approved plan of boiler forwarded herewith Yes
Plan app 20/7/30 in per box

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been constructed from tested material, to approved plans and under Special Survey. The boiler has tested under hydraulic pressure to 238 lbs, and the Safety valves adjusted under steam to 125 lbs. The boiler has been fitted on deck, in a properly constructed house and is fitted with DeWanna mountings. A feed pump 3" Duplex is fitted also a 3/4" injector. The boiler is properly secured & lagged. A steam tridlass, and two Capetans are fitted on deck. The vessel is also fitted with two Duplex steam pumps (6 x 5 3/4 x 6) for bilge and general purposes.
Jan 5, 1931.
 Recommended notation + NB 1-31, when Easing gear has been fitted to the Safety valves.

It is submitted that this vessel is eligible for THE RECORD. + NB 1-31 125 lb.

Subject to Safety valve easing gear being fitted
25/1/31

Survey Fee ... £ : 45.00
 Travelling Expenses (if any) £ : 8.00
 When applied for, Oct 30 1930
 When received, Nov 17-23 1930
8 30 - 24/31 RATE

Adcott & S. J. Hooper
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 13 FEB 1931
 Assigned + NB 1-31-125 lbs
Subject

TUE. 23 FEB 1932

Lloyd's Register Foundation
 009443-009504-0127