

# REPORT ON BOILERS.

No. 1047

Received at London Office MON. 29 JUL. 1923

ate of writing Report <sup>22</sup> May 1923 When handed in at Local Office <sup>30</sup> May 1923 Port of Vancouver B.C.  
 No. in Survey held at Victoria B.C. Date, First Survey 7<sup>th</sup> March Last Survey 19<sup>th</sup> May 1923  
 Reg. Book. on the Wood Twin Saw "MOTOR PRINCESS" (Number of Visits 7) Tons { Gross 1242.63  
 Net 778.69  
 Master Sterner Built at Esquimalt B.C. By whom built Yarrows L. When built 1913  
 Engines made at Auburn N.Y. By whom made M<sup>c</sup>Intosh & Seymour Corp When made 1913  
 Boilers made at Victoria B.C. By whom made Victoria Machinery Depot C<sup>o</sup> L<sup>td</sup> When made 1923  
 Registered Horse Power 200 HP Owners Canadian Pacific R<sup>r</sup> C<sup>o</sup> Port belonging to Victoria

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Letter for record ) 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 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler  
 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  
 bottom Combustion chamber  
 Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules  
 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 Area 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 Area 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 Steam dome: description of joint to shell % of strength of joint  
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed  
 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to  
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER—No. one Description Vertical tubular Manufacturers of steel Lubinus Rees Pa.  
 Made at Victoria B.C. By whom made Victoria Machinery Depot C<sup>o</sup> L<sup>td</sup> When made 1923 Where fixed mach. space Working pressure 150<sup>psi</sup>  
 tested by hydraulic pressure to 300<sup>psi</sup> Date of test 31-3-23 No. of Certificate 47 Fire grate area 18<sup>sq</sup> ft Description of safety valves spring loaded  
 No. of safety valves two Area of each 3<sup>sq</sup> ft Pressure to which they are adjusted 150<sup>psi</sup> If fitted with easing gear yes If steam from main boilers can  
 enter the donkey boiler ✓ Dia. of donkey boiler 5'-6" Length 10'-0" Material of shell plates DHS. Thickness 1/2" Range of tensile  
 strength 62,800 lb Descrip. of riveting long. seams D.R. butt Dia. of rivet holes 13/16" Whether punched or drilled drilled Pitch of rivets 3 3/8"  
 Lap of plating 4 1/4" Per centage of strength of joint 93% Working pressure of shell by rules 164<sup>psi</sup> Thickness of shell crown plates 1/2"  
 Radius of do. flat No. of Stays 230 Ordinary Dia. of stays 3/8 x 2 1/2" Diameter of furnace Top 4'-11" Bottom 4'-11" Length of furnace 3'-0"  
 Thickness of furnace plates 1/2" Description of joint D.R. lap Working pressure of furnace by rules as approved Thickness of furnace crown  
 plates 1/2" Radius of do. flat Stayed by stay tubes Diameter of uptake 2'-3" Thickness of uptake plates 1/4" 8 gauge  
 Thickness of water tubes ✓

The foregoing is a correct description,

Victoria Machinery Depot Co. Ltd. Manufacturer.

Dates { During progress of work in shops -- 7-12-19 + 31 March  
 { During erection on board vessel --- 30 April: 4 + 19 May  
 while building { Total No. of visits 7

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



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

This boiler has been built & installed under special survey & in accordance with the rules & approved plans. The material and workmanship are of good quality. Before installing the boiler was submitted to a hydrostatic test of 300 lbs pressure & found tight.

This boiler is now lagged and secured in position in the machinery space forward of the main engine & having a steel partition between the boiler & the engine.

The boiler is fired with oil fuel, the system has been examined & found satisfactory.

The safety valves have been floated under steam & adjusted at 150 lbs pressure.

It is recommended that the record D.B. 23 be made in the Register Book in the case of the Vessel.

Certificate (when required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £ : : When applied for,  
Special .. .. £ : : 25 May 23

Donkey Boiler Fee .. \$45.00 : : When received,  
Travelling Expenses (if any) \$10.00 : : 15/8/23

Committee's Minute  
Assigned FRI JUL 13 1923

*Evan Edwards*

Engineer Surveyor to Lloyd's Register of Shipping.

FRI 20 JUN 1924  
TUES. 18 AUG 1925

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Lloyd's Register  
Foundation

See Vex. Rpt 1046