

REPORT ON BOILERS.

No. 704.

MON. 31. 12. 1918

RECEIVED NEW YORK MAR. 5. 1919

Received at London Office

Port of Vancouver, B.C.
 Date, First Survey Aug 5/18 Last Survey Feb 4 1919
 No. in Survey held at Vancouver, B.C.
 on the Single Screw Steam Ship "War, Chief"
 Master J.B. Watson Built at Vancouver By whom built J. Coughlan & Son
 Engines made at Wellesville, N.Y. By whom made Kerr, Turbine Co. (50011) When built 1918
 Boilers made at Vancouver, B.C. By whom made Vulcan Iron Works, L^d When made 1918
 Registered Horse Power 576.6 Owners The Shipping Controller Port belonging to Vancouver, B.C.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Albion Steel Co
 Letter for record S Total Heating Surface of Boilers 8008.5 Is forced draft fitted Yes No. and Description of Boilers 3 Vertical End Scotch Working Pressure 190 Tested by hydraulic pressure to 300 Date of test Oct 1/18
 No. of Certificate 18 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.29 sq ft No. and Description of safety valves to each boiler Two of Crosby Main Types Area of each valve 9.06 Pressure to which they are adjusted 190 lb
 Are they fitted with easing gear Yes 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 1' 6" Mean dia. of boilers 14' 9 1/8" Length 11' 5 1/2"
 Material of shell plates Flange Steel Thickness 1 7/16 Range of tensile strength 65,000 Are the shell plates welded or flanged neither
 Descrip. of riveting: cir. seams D.R. Lap, long. seams Top R-D.R. Diameter of rivet holes in long. seams 1 7/16 Pitch of rivets 8.60
 Lap of plates or width of butt straps 25 1/2 x 14 1/2 Per centages of strength of longitudinal joint rivets 97.5 Working pressure of shell by rules 208.9 Size of manhole in shell 12" x 16" Size of compensating ring
boiler Can Suspension Material Steel Outside diameter 48 1/2 Length of plain part top 8' 4" Thickness of plates crown 19/32 bottom 9/32
 Description of longitudinal joint Flange No. of strengthening rings - Working pressure of furnace by the rules 195.9 Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 7/8 Pitch of stays to ditto: Sides 10 3/32 Back 7 1/8
 Top 7 1/2 If stays are fitted with nuts or riveted heads None Working pressure by rules 194 Material of stays Mild Steel Area at smallest part 2' 0" Area supported by each stay 49 Working pressure by rules 253 End plates in steam space: Material Steel Thickness 1 1/16
 Pitch of stays 16 1/4 How are stays secured Nuts Working pressure by rules 193 Material of stays Mild Steel Area at smallest part 5' 9 3/4
 Area supported by each stay 315.29 Working pressure by rules 193.3 Material of Front plates at bottom Flange Steel Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 4 7/32 Working pressure of plate by rules 212 Diameter of tubes 3.00
 Pitch of tubes 4 1/8 Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 4 7/32 Pitch across wide water spaces 13" Working pressures by rules 204 Girders to Chamber tops: Material Mild Steel Depth and thickness of girder at centre 10" x 3/4" Length as per rule 3' 0" Distance apart 7 1/2 Number and pitch of Stays in each 30 of 7 1/2 Pitch
 Working pressure by rules 236 Steam dome: description of joint to shell
 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 -

UPERHEATER. Type Foster Date of Approval of Plan - Tested by Hydraulic Pressure to 630 lb
 Date of Test January 3. 1919 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 1 1/2" in each Section Pressure to which each is adjusted 210 lb Is Easing Gear fitted None

VERTICAL DONKEY BOILER— No. - Description - Manufacturers of steel -
 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 valves -
 No. of safety valves - Area of each - Pressure to which they are adjusted - 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 - 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 -
 Radius of do. - Stayed by - Diameter of uptake - Thickness of uptake plates -
 Thickness of water tubes -

foregoing is a correct description,
Vulcan Iron Works, Limited Manufacturer.

Dates of Survey while building
 During progress of work in shops 5/8/18, 13/8/18, 19/8/18, 6/9/18, 11/9/18, 20/9/18, 24/9/18, 27/9/18, 8/10/18, 17/10/18, 18/10/18
 During erection on board vessel 30/10/18, 13/11/18, 23/11/18, 29/11/18, 9/12/18, 12/12/18, 21/1/19, 10/1/19, 3/2/19
 Total No. of visits 4/12/19
 Is the approved plan of main boiler forwarded herewith -
 " " " donkey " " "

W471-0068

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

These Boilers have been built under Special Survey and according to approved plans. They are of Good Material and Workmanship and have been tested under Hydraulic Pressure, with Satisfactory results.

Lloyds.
26
TP 300
w.P. 190.
18/10/18.
L.M.

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TP 300
w.P. 190.
18/10/18.
L.M.

Lloyds
26
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18/10/18.
L.M.

The foregoing marks have been stamped on these Boilers,

Certificate (if 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 ... £

43 Special ... £87.25

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for.

Feb 24th 1919.

When received.

1919

James Hurdock & Geo. C. McGowan
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 15 APR. 1919

FRI. 31 OCT. 1919

Assigned

See Ver. for rpt No 704



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Lloyd's Register
Foundation