

# REPORT ON BOILERS.

No. 1522

Writing Report June 28 1918 When handed in at Local Office July 3 1918 Port of Montreal

Survey held at Montreal Date, First Survey Mar. 5. Last Survey June 12 1918

(Number of Visits 15) Tons } Gross 4363  
Net 2577

on the S.S. "PORSANGER"

R. M. Dickinson. Built at Montreal By whom built Canadian Vickers Ltd. When built 1918

Made at Montreal By whom made Canadian Vickers Ltd. When made 1918

Made at Montreal By whom made Canadian Vickers Ltd. When made 1918

Indicated Horse Power 220 Owners Russell Loran Port belonging to Montreal

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

For record S. Total Heating Surface of Boilers 1102 sq ft Is forced draft fitted No. No. and Description of Boilers

One Multitubular Scotch Type. Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 2-4-18

of Certificate 2 Can each boiler be worked separately Area of fire grate in each boiler 32.5 sq ft No. and Description of valves to each boiler

2 Spring loaded Area of each valve 8.295 sq in Pressure to which they are adjusted 100 lbs

Key fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 11'0" Length 9'6"

Material of shell plates Steel Thickness 1/16" Range of tensile strength 28-30 Tons Are the shell plates welded or flanged Yes

Kind of riveting: cir. seams Double long. seams Triple riv. LAP Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 4 1/8"

Width of plates or width of butt straps 7/8" Per centages of strength of longitudinal joint rivets 46.4% plate 44.6% Working pressure of shell by rules 104

Size of manhole in shell 16" x 12" Size of compensating ring 2'9" x 2'2" No. and Description of Furnaces in each boiler

2 plain Material Steel Outside diameter 3'4 1/8" Length of plain part top 6'1 1/2" Thickness of plates crown 9/16" bottom "

Kind of longitudinal joint Double butt straps No. of strengthening rings Working pressure of furnace by the rules 12/ Combustion chamber

Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 3/4" Pitch of stays to ditto: Sides 8" x 9" Back 8 1/2" x 8 1/2"

2' x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 106 Material of stays Steel Diameter at smallest part .99"

Area supported by each stay 72.25 sq in Working pressure by rules 106 End plates in steam space: Material Steel Thickness 1/16"

of stays 15 1/2" x 13 1/4" How are stays secured Drilled Nuts Working pressure by rules 103 Material of stays Steel Diameter at smallest part 2.31"

Area supported by each stay 209.25 sq in Working pressure by rules 115 Material of Front plates at bottom Steel Thickness 1/16" Material of back plate Steel

Thickness 5/8" Greatest pitch of stays 13 x 8 1/2 Working pressure of plate by rules 112 1/4 Diameter of tubes 3"

of tubes 4 1/4" x 4 1/4" Material of tube plates Steel Thickness: Front 1/16" Back 19/32 Mean pitch of stays 8 1/2" x 12 3/4" Pitch across wide spaces 13"

Working pressures by rules 100 lbs Girders to Chamber tops: Material Steel Depth and thickness of girders at centre 7 1/2" Double Length as per rule 2'4 1/2" Distance apart 8 1/8" Number and pitch of Stays in each 2 - 8"

Working pressure by rules 126 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Reinforced with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

## 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

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

Percentage 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

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

FOR CANADIAN VICKERS LIMITED The foregoing is a correct description,

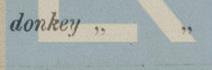
Manufacturer.

During progress of work in shops - - - Mar. 5, 19, 26, Apr. 1, 10, 18, 25.

During erection on board vessel - - - May 12, 20, 23, 29, June 2, 6, 9, 12.

Total No. of visits 15.

Is the approved plan of main boiler forwarded herewith Yes.



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Lloyd's Register Foundation

009341-009349-0317

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

This boiler has been constructed in accordance with the rules and under special survey. The material and workmanship is good. It has been satisfactorily fitted on board and the safety valves adjusted under steam to blow at 100 lbs pressure. It is eligible in my opinion to be included in the class recommended namely F.L.M.C. 6-18.

Certificate (if required) to be sent to  
(This 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 <sup>00</sup> | : | : | .....19           |
| Donkey Boiler Fee .. .. £        | : | : | When received,    |
| Travelling Expenses (if any) £   | : | : | .....             |

Committee's Minute

FRL 6 SEP 1910

Assigned

*H. J. Alderson*  
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation

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