

REPORT ON BOILERS.

No. 58

Montréal 1625

Received at London Office

MON 16 DEC 1918

REC'D NEW YORK July 29-1918

Port of Toronto

Writing Report July 29-1918

Survey held at St. Catharines Ont

Date, First Survey Jan 10

Last Survey Nov 7 1918

(Number of Visits 26) Gross 2427

Tons Net 1412

on the S.M.B. Installation No 49. Howden Boilers

L. Cormac Built at Quebec P.Q. By whom built Quebec Shipyard & Rep Co Ltd When built 1918-11

made at Montreal P.Q. By whom made Dominion Bridge Co Ltd. When made 1918

made at St. Catharines By whom made Eng & Machine Co of Canada When made 1918

red Horse Power 146.5 Owners Imperial Munitions Board Port belonging to Quebec

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens

for record 5 Total Heating Surface of Boilers 5280 sq ft Is forced draft fitted Yes No. and Description of 24.6.18

2 Howden Working Pressure 185 lbs Tested by hydraulic pressure to 270 lbs Date of test 8.7.18

Certificate 39440 Can each boiler be worked separately Yes Area of fire grate in each boiler 60 sq ft No. and Description of 23-8-18

valves to each boiler 2 Spring loaded Area of each valve 8.29 sq ft Pressure to which they are adjusted 185 lbs

ey fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler 11-6-18

est distance between boilers or uptakes and bunkers, or woodwork 9" Mean dia. of boilers 18 7/8" Length 9'6"

ial of shell plates Steel Thickness 3/8" Range of tensile strength 28-32 Are the shell plates welded or flanged No

ip. of riveting: cir. seams Single long. seams Double Diameter of rivet holes in long. seams 7/8" Pitch of rivets 2.65

plates on width of butt straps 4 1/8" Per centages of strength of longitudinal joint rivets 79.9 Working pressure of shell by plate 65.8

218 Size of manhole in shell 16 x 12 Size of compensating ring No. and Description of Furnaces in each

Material Outside diameter Length of plain part Thickness of plates crown bottom

ption of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter of

est part Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 1"

of stays 18 x 16 How are stays secured Working pressure by rules 149 Material of stays Diameter at smallest part

supported by each stay Working pressure by rules Material of Front plates at bottom Steel Thickness 3/8" Material of

back plate Steel Thickness 3/8" Greatest pitch of stays 13.5 Working pressure of plate by rules 185 Diameter of tubes 2"

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

spaces Working pressures by rules Girders to Chamber tops: Material Steel Depth and thickness of

at centre 6 1/4 x 2 1/4 Length as per rule 2' 11 3/8" Distance apart 6" Number and pitch of Stays in each 4 x 6 3/4"

ing pressure by rules 200 Superheater Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

ately No Diameter 27" Length 10' 2 1/4" Thickness of shell plates 7/8" Material Steel Description of longitudinal joint 54.44 Diam. of rivet

13/16 Pitch of rivets 2.5 Working pressure of shell by rules 258 Diameter of flue Material of flue plates Thickness

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

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

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

at By whom made When made Where fixed Working pressure

by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

f safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

gth Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

us of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

tness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

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

tness of water tubes The foregoing is a correct description, MANUFACTURER.

During progress of work in shops: Jan 10 Feb 12 Mar 4.12 Apr 3.22.30 May 7.10.22 June 4.13.19.24 July 8.17

During erection on board vessel: July 11.30 Aug 3.8.15.23.30 Sept 7 Oct 22 Nov 7

Total No. of visits 26

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " " "

W734-0012

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Lloyd's Register Foundation

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

These Boilers have been constructed under Special Survey. They are of good material & workmanship & have been tested under hydraulic pressure with satisfactory results. They have been shipped to Quebec to be fitted on board a wooden steamer & will be eligible for use with date when completed with the machinery.

These boilers have been satisfactorily installed on board the vessel. The equalizing tubes have been fitted in place and the completed boiler tested to 280 lbs water pressure and found tight. The safety valves have been adjusted under steam & blow at a pressure of 185 lbs per sq" and the thickness of the waters is noted on the accompanying engine report. In my opinion the installation is eligible & have the record of LMC 11-18 in the register book. The boilers to be surveyed annually.

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	.. £	:	When applied for,
Special	..	\$ 60 : 00	27.7.1918
Donkey Boiler Fee	.. £	:	When received,
Travelling Expenses (if any)	\$ 28 : 00	:	27.7.1918

Committee's Minute

Assigned

FRI. DEC. 20. 1918

FRI. JUL. 11 1921

TUE. 15. APR. 1919

FRI. APR. 16 1920

H. J. Alderson
John W. Gwynne & Robert C. Blyth
Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation

Rpt. 1

Port

No. in
Reg. Book

Owners

Yard No.

DESCRIP

1-

Gyn

Capacity

Where is

Position

Positions

If fuses

circu

If vessel i

Are the f

Are all fu

are pe

Are all su

Total numb

A Navi

#1 al

B #2

C Cargo

D Wire

E Machi

1 M

2

If arc lights

Where are t

DESCRIPTION

Main cable ca

Branch cables

Branch cables

Leads to lamp

Cargo light cab

DESCRIPTION

3/2" of 30

Condui

Joints in cables

Sticks in

Are all the join

positions, i

Are there any j

How are the ca