

## REPORT ON BOILERS.

No. 1595

MON. 23 JUN. 1919

Date of writing Report

191

When handed in at Local Office

191

Port of

Received at London Office

Montreal

No. in Survey held at

Montreal

Date, First Survey

Last Survey

191

Reg. Book.

393 on the

Hood I.S. "Ker Halifax"

(Number of Vessels)

Gross 2300

Tons

Net

Master

Built at

Liverpool N.S.

By whom built

Southern Salvage Co. Ltd.

When built 1918

Engines made at

Amhurst N.S.

By whom made

Robt. Engie Works Co. Ltd.

When made

1918

Boilers made at

Montreal

By whom made

Canadian Vickers Ltd.

When made

1918

Registered Horse Power

328

Owners

Imperial Munitions Board

Port belonging to

WATERTUBE

Nos 21-22

~~MULTITUBULAR~~

BOILERS—MAIN,

~~AUXILIARY OR DONKEY~~

Manufacturers of Steel

Lukens Iron &amp; Steel Co. PA

(Letter for record

S)

Total Heating Surface of Boilers

5280

Is forced draft fitted

yes

No. and Description of

Boilers 2 Howden Water Tube

Working Pressure

185

Tested by hydraulic pressure to

280

Date of test

No. of Certificate

Can each boiler be worked separately

yes

Area of fire grate in each boiler

60

No. and Description of

safety valves to each boiler

2 Marine Type

Area of each valve

82958

Pressure to which they are adjusted

190 lbs

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

2'

Mean dia. of boilers

36 7/8

Length

50' 11 3/4"

Material of shell plates

Steel

Thickness

TOP DRUM 1/2

BOTTOM 9/16

Range of tensile strength

28-32 TONS

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Single

long. seams

Double

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

2-6 1/2"

Lap of plates on width of butt straps

4 3/16"

Per centages of strength of longitudinal joint

rivets

TOP 68.58

TOP 79.86

Working pressure of shell by

rules

Size of manhole in shell

16 x 12"

Size of compensating ring

No. and Description of Furnaces in each

boiler

Material

Outside diameter

Length of plain part

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top 6" x 6 3/4" stays are fitted with nuts or riveted heads

yes

Working pressure by rules

Material of stays

Steel

Diameter at

smallest part

Area supported by each stay

40.50"

Working pressure by rules

194

End plates in steam space: Material

Steel

Thickness

7/8"

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

Lower back plate

Steel

Thickness

3/4"

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

2 3/4" x 3 1/8"

Material of tube plates

Steel

Thickness: Front

1 3/8"

Back

Mean pitch of stays

Pitch across wide

water spaces

Working pressures by rules

TUBE PLATE OF STEAM DRUM

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

6 1/4" x 1 1/8"

Length as per rule

Distance apart

6"

Number and pitch of Stays in each

4-6 3/4"

Working pressure by rules

194

Superheater or

Steam chest: how connected to boiler

plate-furnace the superheater be shut off and the boiler worked

separately

Diameter

INT 24"

Length

Thickness of shell plates

7/16"

Material

holes

1 3/16"

Pitch of rivets

2 1/2"

Working pressure of shell by rules

252

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

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

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

Plates

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

FOR CANADIAN The foregoing is a correct description.

Manufacturer.

Dates  
of Survey  
while  
building

During progress of  
work in shops - - -  
During erection on  
board vessel - - -  
Total No. of visits

May. 25. 29. June 1. 7. 10. 11. 17. 20. 24. 27. July. 3. 11. 17. 20. 24

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

" " " donkey " " "

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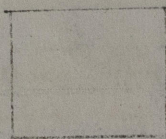
Lloyd's Register  
Foundation

W749-0250



**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) *These boilers have been constructed under Special Survey and in accordance with the rules. The workmanship is satisfactory and in my opinion they are eligible to receive the class + L.M.C with date after they are installed in the vessel, the equalizing tubes fitted and the boiler tested as a whole. The following marks have been stamped on the elements and other*

LLOYDS  
No 21  
T.P. 280  
4-4-18  
WES. JTG



LLOYDS  
No 22  
T.P. 280  
20-4-18  
WES JEL

LLOYDS  
No 21 A  
T.P. 280  
11-4-18  
WES JEL

LLOYDS  
No 21 B  
T.P. 280  
11-4-18  
WES JEL

LLOYDS  
No 21 C  
T.P. 280  
11-4-18  
WES. JEL

LLOYDS  
No 22 A  
T.P. 280  
20-4-18  
WES-JEL

LLOYDS  
No 22 B  
T.P. 280  
20-4-18  
WES JEL

LLOYDS  
No 22 C  
T.P. 280  
20-4-18  
WES JEL

*These boilers were installed on the "Hera" at Liverpool N.S., the equalizing pipes were fitted, and the safety valves adjusted under steam to their working pressure.*

Certificate (if required) to be sent to

The amount of Entry Fee .. £	:	When applied for,
Special .. .. £ 86/20	:	Aug. 15. 1919
Donkey Boiler Fee .. .. £	:	When received,
Travelling Expenses (if any) £ 1/25	:	Aug. 15. 1919

Committee's Minute

Assigned

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

FRI. AUG. 15. 1919

See Minute on

11/4 Rpt. 1153

TUE. 24 FEB. 1920

Lloyd's Register  
Foundation