

REPORT ON BOILERS.

No. 1595

MON. 23 JUN. 1919

Received at London Office

Date of writing Report 191 When handed in at Local Office 101 Port of Montreal

No. in Survey held at Montreal Date, First Survey _____ Last Survey _____ 191

Reg. Book. 393 on the Wood S.S. "Ker Halifax" (Number of Visits _____) Gross 2300 Tons Net _____

Master _____ Built at Liverpool N.S. By whom built Southern Salvage Co. Ltd. When built 1918

Engines made at Amherst 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 & Steel Co. PA

(Letter for record S) Total Heating Surface of Boilers 5280 $\frac{1}{2}$ 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 $\frac{1}{2}$ No. and Description of safety valves to each boiler 2 Marine Type Area of each valve 8.2958 $\frac{1}{2}$ Pressure to which they are adjusted 190 $\frac{1}{2}$

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 $\frac{7}{8}$ Length WD 9 $\frac{1}{2}$

Material of shell plates Steel Thickness TOP DRUM 1/2 Range of tensile strength 26-30 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 2.65

Lap of plates or width of butt straps 4 3/16 Per centages of strength of longitudinal joint TOP 214 1/2 rivets 64.0 Working pressure of shell by rules BOTTOM 239 ENDS 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 _____

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

plates: Material _____ Thickness: Sides _____ Back _____ Top 1 3/8 Bottom _____ Pitch of stays to ditto: Sides _____ Back _____

Top 6 x 6 3/4 stays are fitted with nut 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 2

Pitch of tubes 2 3/4 x 3 1/8 Material of tube plates Steel Thickness: Front 1 3/8 Back 1 3/8 Mean pitch of stays _____ Pitch across wide water spaces _____ Working pressures by rules _____

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 Material Steel Description of longitudinal joint Lap Diam. of rivet holes 1 1/16 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 _____ 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 _____

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 _____

FOR CANADA The foregoing is a correct description.

Dates of Survey while building _____

During progress of work in shops - - - May. 25, 29. June 1, 7, 10, 11, 17, 20, 24, 27.

During erection on board vessel - - - July 3, 11, 17, 20, 24

Total No. of visits 15

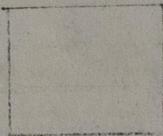
Is the approved plan of main boiler forwarded herewith _____

" " " donkey " " _____



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 collars*

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



LLOYDS
No 22
T.P. 280
20-7-18
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
20-7-18
WES-JEL

LLOYDS
No 22 B
T.P. 280
20-7-18
WES JEL

LLOYDS
No 22 C
T.P. 280
20-7-18
WES JEL

These boilers were installed on the "New Halifax" 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 Committee's Minute.

The amount of Entry Fee .. £	:	:	When applied for,
Special £ 61 ⁰⁰	:	:	Aug. 15. 1919
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £ 17 ⁵	:	:	Aug. 15. 1919

Committee's Minute **FRI 27 JUN 1919**
Assigned

N. J. Alderson *N. E. Swinburne*
Engineer Surveyor to Lloyd's Register of Shipping
© 2019
Lloyd's Register Foundation
FRI. AUG. 15. 1919
Su Minute on
11/4 Rm 1153
TUE 24 FEB 1920