

REPORT ON BOILERS.

 No. 74285
 MON. 18 APR. 1921

Received at London Office

Writing Report

10

When handed in at Local Office

19

Port of

NEWCASTLE ON TYNE

 in Survey held at
 Book.

 Date, First Survey 20th July 1920 Last Survey 7th April 1921
 (Number of Visits 8)

 Gross
 Tons
 Net

on the Main Boiler 993

er

Built at

By whom built

When built

nes made at

By whom made

When made

rs made at Hestburn

By whom made Palmers & J. Coy Ltd 993

When made 1921-4

tered Horse Power

Owners

Port belonging to

 LTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel *Spencer & Sons Ltd.*

 er for record *S*) Total Heating Surface of Boilers *1120* ^{sq ft} Is forced draft fitted *No* No. and Description of

 ers *one S.E. Cyl' multitubular* Working Pressure *130 lb* Tested by hydraulic pressure to *260 lb* Date of test *13-4-21*

 of Certificate *9553* Can each boiler be worked separately ☒ Area of fire grate in each boiler *9* No. and Description of

 y valves to each boiler ☒ Area of each valve ☒ Pressure to which they are adjusted ☒

 they fitted with easing gear ☒ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ☒

 llest distance between boilers or uptakes and bunkers or woodwork ☒ Internal dia. Mean dia. of boilers *12'-0"* Length *10'-0"*

 erial of shell plates *Steel* Thickness *13/16"* Range of tensile strength *28/32* ^{tons sq in} Are the shell plates welded or flanged *No*

 rip. of riveting: cir. seams *DR Lap* long. seams *IR DB-Stop* Diameter of rivet holes in long. seams *1"* Pitch of rivets *5 1/4"*

 of plates or width of butt straps *15 1/2"* Per centages of strength of longitudinal joint rivets *82.5%* Working pressure of shell by plate *80.95%*
136 lb Size of manhole in shell *16x12"* Size of compensating ring *7x13/16"* No. and Description of Furnaces in each

two plain Material *Steel* Outside diameter *3'-7 3/8"* Length of plain part *5'-10"* Thickness of plates *3/4"* crown *3/4"* bottom *6'-7"*

 ription of longitudinal joint *weld* No. of strengthening rings *none* Working pressure of furnace by the rules *167 lb* Combustion chamber

 : Material *Steel* Thickness: Sides *19/32"* Back *9/16"* Top *12/32"* Bottom *13/16"* Pitch of stays to ditto: Sides *9 1/2 x 8 1/2"* Back *9 x 9"*
12 x 8 1/2" If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *135 lb* Material of stays *Steel* Area at

 est part *1-45"* Area supported by each stay *81"* Working pressure by rules *143 lb* End plates in steam space: Material *Steel* Thickness *7/8"*

 of stays *16 1/2 x 16 1/2"* How are stays secured *on row* Working pressure by rules *33 lb* Material of stays *Steel* Area at smallest part *4.11"*

 supported by each stay *272"* Working pressure by rules *56 lb* Material of Front plates at bottom *Steel* Thickness *27/32"* Material of

 r back plate *Steel* Thickness *25/32"* Greatest pitch of stays *13 x 9"* Working pressure of plate by rules *130 lb* Diameter of tubes *3 1/2"*

 of tubes *4 7/8 x 4 3/4"* Material of tube plates *Steel* Thickness: Front *27/32"* Back *3/4"* Mean pitch of stays *45 7/8 x 9 1/2"* Pitch across wide

 spaces *14"* Working pressures by rules *130 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of

 at centre *8 1/2 x 13/8"* Length as per rule *30.5"* Distance apart *9 1/2"* Number and pitch of Stays in each *2 of 8 1/2" pitch*

 ing pressure by rules *65 lb* Steam dome: description of joint to shell *none* % of strength of joint

eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

 REHEATER. Type *none* Date of Approval of Plan Tested by Hydraulic Pressure to

f Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

er of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

 For *Palmers Shipbuilding & Iron Co., Ltd.*

The foregoing is a correct description,

A. Cameron
 Manager, Hestburn Boiler Shop & Manufacturer.

 During progress of work in shops - - - *1920 July 20 - Sep 16 - 20. G.E. 11. Nov. 1. 1921 Mar. 10. 17. Apr. 7.*
 During erection on board vessel - - -

 Is the approved plan of boiler forwarded herewith *Yes*

 Total No. of visits *8*

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

Boilers built under Special Survey the material and workmanship found good and efficient.
Boilers was tested under 260 lb² hydraulic pressure (& mountings) at the makers works and found sound and satisfactory.

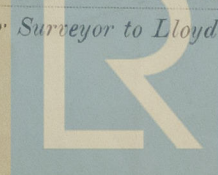
 Survey Fee ... £ *7 : 10 :* When applied for, *16 APR 1921*
 Travelling Expenses (if any) £ : : When received, *26.5.21*

Committee's Minute

Signed

Leonard & Shalloo. © 2020

Engineer Surveyor to Lloyd's Register of Shipping.


 Lloyd's Register
 Foundation

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