

REPORT ON BOILERS.

No. 35496

WED. 6-OCT. 1915

Date of writing Report

191

When handed in at Local Office

191

Port of *Glasgow*

N. in Survey held at

Glasgow

Date, First Survey

19/5/15

Last Survey

29/9/15

1915

Reg. Book.

24 on the

MAIN BOILER OF THE S.S. "LADY DOROTHY"

(Number of Visits)

2

Tons

Gross 578

Net 289

Master

Built at *Dundee*

By whom built

*Dundee SBC 274*When built *1916*

Engines made at

By whom made

Wm Beardmore & Co 460

When made

Boilers made at

Glasgow

By whom made

D. Rowan & Co (B235)

When made

1915

Registered Horse Power

Owners *NOBEL'S EXPLOSIVES CO., LTD.*Port belonging to *GLASGOW.*MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel *W. Beardmore & Co.*

(Letter for record (S))

Total Heating Surface of Boilers *1485 sq ft*Is forced draft fitted *no*

No. and Description of

Boilers *Single ended*Working Pressure *180*Tested by hydraulic pressure to *360*Date of test *29/9/15*No. of Certificate *13253*Can each boiler be worked separately *✓*Area of fire grate in each boiler *57.2 sq ft*

No. and Description of

safety valves to each boiler *pair direct spring*Area of each valve *-*Pressure to which they are adjusted *-*Are they fitted with easing gear *-*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 *-**inside*dia. of boilers *13'-0"* Length *10'-3"*Material of shell plates *steel*Thickness *1 1/16"*Range of tensile strength *28 to 32* Are the shell plates welded or flanged *no*Descrip. of riveting: cir. seams *Lap double long. seams triple butt*Diameter of rivet holes in long. seams *1 3/16"*Pitch of rivets *8"*Lap of plates or width of butt straps *17 3/4"*Per centages of strength of longitudinal joint *96.9*

Working pressure of shell by

rules *180*Size of manhole in shell *16" x 12"*Size of compensating ring *2'-5" x 2'-9" x 1 1/16"*

No. and Description of Furnaces in each

boiler *3 plain*Material *steel*Outside diameter *40 3/8"*Length of plain part *top 3'-2"*Thickness of plates *crown 3/4"*bottom *4"*Description of longitudinal joint *Welded*No. of strengthening rings *per part 23"*Working pressure of furnace by the rules *198*

Combustion chamber

plates: Material *steel* Thickness: Sides *23/32"*Back *23/32"*Top *23/32"*Bottom *23/32"*Pitch of stays to ditto: Sides *9 1/2" x 10 3/8"* Back *11 1/2" x 8"*Top *10 3/8" x 9 1/2"* stays are fitted with nuts or riveted heads *nuts*Working pressure by rules *180*Material of stays *steel* Diameter atsmallest part *2'-0"*Area supported by each stay *95"*Working pressure by rules *196*End plates in steam space: Material *steel* Thickness *1 1/8"*Pitch of stays *18 1/2" x 17"*How are stays secured *2 nuts*Working pressure by rules *180*Material of stays *steel*Diameter at smallest part *5'-9"*Area supported by each stay *3/4"*Working pressure by rules *196*Material of Front plates at bottom *steel*Thickness *6 1/4"*

Material of

Lower back plate *steel*Thickness *5 1/4"*Greatest pitch of stays *13 1/4"*Working pressure of plate by rules *262*Diameter of tubes *3 1/4"*Pitch of tubes *4 3/8" x 4 1/2"*Material of tube plates *steel*Thickness: Front *6 1/4"*Back *23/32"*Mean pitch of stays *10 3/8"*water spaces *13 3/8"*Working pressures by rules *180*Girders to Chamber tops: Material *steel*

Depth and thickness of

rider at centre *9" x 3/4" double*Length as per rule *32 5/8"*Distance apart *9 1/2"*Number and pitch of Stays in each *10 3/8" x (2)*Working pressure by rules *186*Superheater or Steam chest: how connected to boiler *none*

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

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

Survey request form

No *1723* attached

The foregoing is a correct description,

Jr David Rowan & Co

Manufacturer.

Dates

During progress of

work in shops - - -

while

During erection on

board vessel - - -

1915 May 19. Sept 29

Is the approved plan of boiler forwarded herewith

*Yes*Total No. of visits *2*

GENERAL REMARKS

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

*This boiler has been built under special survey, the materials & workmanship are of good description**See chargeable on Machinery Report.*

Survey Fee

...

£

:

:

When applied for,

191.....

Travelling Expenses (if any) £

:

:

:

When received,

191.....

Committee's Minute

Glasgow

5-OCT. 1915

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. MAR. 17. 1916

Lloyd's Register Foundation

002151-002156-0061