

pt. 5a.

# REPORT ON BOILERS.

No. 33725

Received at London Office WED MAR 25 1914

101 When handed in at Local Office 16 3 1914 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 7. 1. 14 Last Survey 11. 3. 1914

Reg. Book. on the Shipment Boiler No 1504 (Number of Visits 5) Gross Tons Net Tons

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Glasgow By whom made Lindsay Burnet & Co When made 1914

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewart & Lloyd & J Dunlop.

Letter for record S Total Heating Surface of Boilers 1500 Is forced draft fitted No. and Description of Boilers 1 Single ended & horizontal Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 11/3/14

No. of Certificate 12596 Can each boiler be worked separately Area of fire grate in each boiler 46 sq ft No. and Description of Safety valves to each boiler 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 Mean dia. of boilers 12' 0" Length 10' 6"

Material of shell plates steel Thickness 3 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged 7/10

Description of riveting: cir. seams Lap double long. seams Butt double Diameter of rivet holes in long. seams 1" Pitch of rivets 5 3/8"

Up of plates or width of butt straps 10 1/2" Per centages of strength of longitudinal joint rivets 83.5 plate 81.3 Working pressure of shell by rules 130 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 1" flange No. and Description of Furnaces in each boiler 2 furnaces Material steel Outside diameter 48" 48" Length of plain part top bottom Thickness of plates crown bottom 7 1/2"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 139 Combustion chamber plates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8 x 10 Back 8 3/4 x 9 3/4

8 x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 135 Material of stays steel Diameter at smallest part 1 1/4" Area supported by each stay 90" Working pressure by rules 130 End plates in steam space: Material steel Thickness 3 3/4"

Pitch of stays 16 x 15" How are stays secured 2 nuts Working pressure by rules 132 Material of stays steel Diameter at smallest part 3.03

Area supported by each stay 240" Working pressure by rules 131 Material of Front plates at bottom steel Thickness 3 3/4" Material of lower back plate steel Thickness 3 3/4" Greatest pitch of stays 14" with 1/2" diameter Working pressure of plate by rules 130 Diameter of tubes 3 1/2"

Pitch of tubes 4 3/8 x 4 3/8 Material of tube plates steel Thickness: Front 3 3/4" Back 1 1/2" Mean pitch of stays 11" Pitch across wider spaces 14" with 1/2" Working pressures by rules 171 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6 1/4 x 7 1/2" Length as per rule 25 3/4" Distance apart 8 1/2" Number and pitch of Stays in each (2) 8"

Working pressure by rules 135 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	
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			

Request No 1434 attached.

The foregoing is a correct description,  
Lindsay Burnet & Co Manufacturer.

Dates Survey During progress of work in shops - - -  
While building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits

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

This boiler has been built under special survey, the materials and workmanship are of good description. The boiler has been despatched to Shanghai.

Survey Fee ... £ 5 : 0 : When applied for, 13. 3. 1914  
Travelling Expenses (if any) £ : : When received, 13. 3. 1914

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

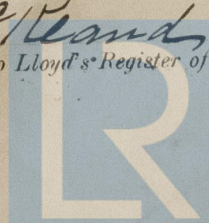
Committee's Minute

GLASGOW 24 MAR. 1914

WED. AUG. - 5. 1914

Assigned

TRANSMIT TO LONDON



Lloyd's Register Foundation

W1484-0094