

REPORT ON BOILERS.

No. 34421

Received at London Office FRI. OCT. -2. 1914

Date of writing Report 24-9-1914 When handed in at Local Office

Port of Glasgow

No. in Survey held at Glasgow

Date, First Survey 25th June '14 Last Survey 23-9-1914

Reg. Book. on the single ended marine boiler N° 1528 for shipment to Shanghai

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Glasgow By whom made Messrs Lindsay Burnett & Co. Ltd (N° 1528) When made 1914

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland Ltd.

Letter for record S. Total Heating Surface of Boilers 1500. Is forced draft fitted No. and Description of

Boilers One, Single ended. Working Pressure 130. Tested by hydraulic pressure to 260 Date of test 23/9/14

No. of Certificate 12844 Can each boiler be worked separately Area of fire grate in each boiler 46 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'-3 13/16" Length 10'-6"

Material of shell plates S. Thickness 3/16" Range of tensile strength 28/32. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams d l. long. seams D R. D B S. Diameter of rivet holes in long. seams 1" Pitch of rivets 5 1/4"

Top of plates on width of butt straps 10 1/2" Per centages of strength of longitudinal joint rivets 82.25 Working pressure of shell by

Rules 132. Size of manhole in shell 16 x 12" Size of compensating ring W. Niels No. and Description of Furnaces in each

Boiler Two Morrison Material S. Outside diameter 4'-0 1/2" Length of plain part top Thickness of plates crown 1/16"

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 131. Combustion chamber

Plates: Material S. 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"

Top 8" x 8 1/2" stays are fitted with nuts or riveted heads N. Working pressure by rules 130 Material of stays S. Diameter at

Smallest part 1 1/4" Area supported by each stay 85" Working pressure by rules 135 End plates in steam space: Material S. Thickness 29/32"

Pitch of stays 1 5/8" x 1 1/4" How are stays secured D. nuts. Working pressure by rules 135. Material of stays S. Diameter at smallest part 3 1/4"

Area supported by each stay 242" Working pressure by rules 131. Material of Front plates at bottom S. Thickness 3/4" Material of

Lower back plate S. Thickness 5/8" Greatest pitch of stays 8 3/4" x 9 3/4" Working pressure of plate by rules 212. Diameter of tubes 3 3/4" OD

Pitch of tubes 4 3/8" x 4 3/8" Material of tube plates S. Thickness: Front 3/4" Back 1/16" Mean pitch of stays 8 3/4" x 8 3/4" Pitch across wide

Water spaces 9 3/4" x 1 1/4" Working pressures by rules 182. Girders to Chamber tops: Material S. Depth and thickness of

Girder at centre 6 1/2" x 1 1/4" Length as per rule 2'-1 3/4" Distance apart 8 1/2" Number and pitch of Stays in each 2-8"

Working pressure by rules 144. Superheater or Steam chest: how connected to boiler 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

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

No. 1579 attached

Dates of Survey During progress of 1914 June 25, July 1, 7, 30, Aug 5, 11, 18, 25. Is the approved plan of boiler forwarded herewith Yes.

while building During erection on board vessel Sept. 1, 11, 15, 23. Total No. of visits 12

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

The workmanship and materials are good.

The boiler has been built under special survey.

Survey Fee ... £ 5 : 0 : 0 When applied for, 29/9/1914

Travelling Expenses (if any) £ : : When received, 29/9/1914

Committee's Minute

GLASGOW

30 SEP. 1914

Assigned TRANSMIT TO LONDON

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

TUE JAN 26. 1915



Lloyd's Register Foundation