

Rpt. 5a.

## REPORT ON BOILERS.

NEWCASTLE-ON-TYNE

71840

845

No. 69775.  
FEB. 1919

Received at London Office

Date of writing Report 2<sup>nd</sup> April 1919 When handed in at Local Office 5<sup>th</sup> APR 1919 Port of NEWCASTLE ON TYNE

No. in Survey held at Newcastle on Tyne Date, First Survey 10<sup>th</sup> Jul. 1916 Last Survey 191

Reg. Book. on the S.S. War Tamar (Number of Visits) Gross 469 Tons Net 250

Master Built at Hull By whom built Cox, Weston & Gummell When built 1914

Engines made at North Shields By whom made Shields Eng. & Dry Dock Coy. Ltd. When made 1914

Boilers made at Hellum-on-Tyne By whom made Palmer's S.S. & C. Coy. Ltd. When made 1914

Registered Horse Power Owners Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel J. Gurney & Sons Ltd.

(Letter for record S.) Total Heating Surface of Boilers 1175 sq. ft. Is forced draft fitted No. No. and Description of Boilers One cylindrical multi-tube Single Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 29/2/14

No. of Certificate 8949 Can each boiler be worked separately ✓ Area of fire grate in each boiler — No. and Description of safety valves to each boiler 2: Relief Spring loaded 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' 5" Length 10' 0"

Material of shell plates Steel Thickness 1" Range of tensile strength 29/20 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Longitudinal long. seams Double Butt Straps Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 1/8" 3/4 1/8"

Lap of plates on width of butt straps 15 1/8" Per centages of strength of longitudinal joint 88.6 Working pressure of shell by rules 184 lb Size of manhole in shell 16" x 12" Size of compensating ring 4" x 1" No. and Description of Furnaces in each boiler 2: Plain Material Steel Outside diameter 40 1/2" Length of plain part 5' 10" Thickness of plates 3 1/2" 3 1/2"

Description of longitudinal joint Weld. No. of strengthening rings None Working pressure of furnace by the rules 181 lb Combustion chamber plates: Material Steel Thickness: Sides 5 1/8" Back 5 1/8" Top 5 1/8" Bottom 1" Pitch of stays to ditto: Sides 8 1/2" x 8 1/2" Back 8 1/2" x 8 1/2"

Top 8 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 186 lb Material of stays Steel Diameter at smallest part 2.03" Area supported by each stay 42" Working pressure by rules 257 lb End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 1 1/2" x 1 1/2" How are stays secured Double Butts Working pressure by rules 185 lb Material of stays Steel Diameter at smallest part 6.1"

Area supported by each stay 306" Working pressure by rules 206 lb Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 7 1/8" Greatest pitch of stays 14" Working pressure of plate by rules 197 lb Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 9 1/2" Pitch across wide water spaces 14" Working pressures by rules 182 lb 223 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2" x 15" Length as per rule 31" Distance apart 8 1/2" Number and pitch of Stays in each 2: 8 1/2"

Working pressure by rules 213 lb 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

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey 1916 During progress of work in shops 10.17.25 Aug. 9.14.24 14.17.18.24.25.29 Oct. 12.16.22.31 Is the approved plan of boiler forwarded herewith Yes

while building 11.21.24.25.26.27.28.29 Jan. 4.22.30.31 Feb. 5.13.16 Total No. of visits 36

During erection on board vessel 21.28.13.20.23.29

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

This Boiler was built under special survey and the materials and workmanship are good. When completed it was tested as required by the Rules and found tight.

Survey Fee ... £ 3 : 18 : : When applied for 5<sup>th</sup> APR 1919

Travelling Expenses (if any) £ : : When received 26 May 1919

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

Committee's Minute

Assigned

FRI. 16 MAY 1919

See accompanying file 2/16

Lloyd's Register Foundation