

REPORT ON BOILERS.

No. 74,303.

Received at London Office FRI. 22 APR. 1921

Writing Report April 20th 1921 When handed in at Local Office April 20th 1921 Port of **NEWCASTLE ON TYNE**

Survey held at **Walloed-on-Tyne** Date, First Survey 27th Jan'y. Last Survey April 20th 1921

Book. on the **3 single Ended Main Boilers for the Steamer "Pence" - Newcastle** (Number of Visits 7.) Gross Tons }
 Built at By whom built When built

rs made at **Walloed-on-Tyne** By whom made **Walloed Shipway & Eng. Co. Ltd** When made **1921**

tered Horse Power **469 TOTAL** Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **John Spencer & Sons**

er for record **6** Total Heating Surface of Boilers **7041 5¹/₂** Is forced draft fitted **No** No. and Description of

ers **3 single Ended Multitubular** Working Pressure **180^{psi}** Tested by hydraulic pressure to Date of test

of Certificate Can each boiler be worked separately Area of fire grate in each boiler **Not given** No. and Description of

ty 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

allest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers **15'-0"** Length **11'-9"**

erial of shell plates **steel** Thickness **1 1/4"** Range of tensile strength **28-32** Are the shell plates welded or flanged **No**

rip. of riveting: cir. seams **double + butt** long. seams **double + butt** Diameter of rivet holes in long. seams **1 7/16"** Pitch of rivets **9 1/8"**

of plates or width of butt straps **19 5/8"** Per centages of strength of longitudinal joint rivets **88-5** Working pressure of shell by plate **85-5**

Size of manhole in shell **16" x 12"** Size of compensating ring **flanged** No. and Description of Furnaces in each

er **3 horizontal** Material **steel** Outside diameter **47 1/2"** Length of plain part **top** Thickness of plates **crown** } **9"**
bottom } **7 1/8"**

ription of longitudinal joint **Welded** No. of strengthening rings Working pressure of furnace by the rules **186** Combustion chamber

es: Material **steel** Thickness: Sides **3/32"** Back **3/32"** Top **3/32"** Bottom **3/32"** Pitch of stays to ditto: Sides **9 1/4" x 8 1/8"** Back **9 1/2" x 8 1/2"**

8 1/8" x 8 1/2" If stays are fitted with nuts or riveted heads **into** Working pressure by rules **180** Material of stays **steel** Area at

allest part **1.734** Area supported by each stay **79.80** Working pressure by rules **180** End plates in steam space: Material **steel** Thickness **1 3/8"**

h of stays **23 x 21"** How are stays secured **double into** Working pressure by rules **180** Material of stays **steel** Area at smallest part **8.480**

a supported by each stay **4834** Working pressure by rules **182.5** Material of Front plates at bottom **steel** Thickness **3/32"** Material of

er back plate **steel** Thickness **3/8"** Greatest pitch of stays **14"** Working pressure of plate by rules **185** Diameter of tubes **3"**

h of tubes **4 1/2" x 4 1/4"** Material of tube plates **steel** Thickness: Front **3/32"** Back **3/4"** Mean pitch of stays **10 1/8"** Pitch across width

er spaces **14"** Working pressures by rules **180** Girders to Chamber tops: Material **steel** Depth and thickness of

er at centre **9 1/4" x 1 1/2"** Length as per rule **36 3/32"** Distance apart **8 1/2"** Number and pitch of Stays in each **3-8 1/8"**

king pressure by rules **180** Steam dome: description of joint to shell **none** % of strength of joint

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

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

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

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

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

FOR THE WALLING & ENGINEERING CO. LIMITED

The foregoing is a correct description,

James C. Henderson Manufacturer.

Is the approved plan of boiler forwarded herewith **Yes** *See duplicate*

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The materials and workmanship of these steel boilers are good, and in accordance with the rules & requirements. They have been partly constructed here and are to be shipped to Bristol where they will be riveted together, the tubes & stays fitted in place, and on completion submitted to a hydraulic test of 320 lbs per sq. inch.**

Survey Fee **2/6 per** ... £ **23-19-4** When applied for, **21 April 1921**
 Travelling Expenses (if any) £ : : When received, **21 May 1921**
 (Don't miss 21/5/21)

Committee's Minute

FRI. 27 JAN 1933

igned

La J. B. Rpt.

Francis Rutton & C. Stuart
 Engineer Surveyor to Lloyd's Register of Shipping.

Musteath Report

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bill

Miss Lane

STH 243