

REPORT ON BOILERS.

No. 53760

Port of Newcastle on Tyne

Received at London Office

MON. 4 NOV 1907

No. in Survey held at South Shields

Date, first Survey May 14

Last Survey 31st October 1907

Reg. Book. on the Saddle Lug "Old Trafford"

(Number of Visits)

Tons } Gross 156
Net 2

Master South Shields Built at South Shields By whom built Jos. J. Eltringham & Co (S.S. No 263) When built 1907
 Engines made at South Shields By whom made Hepple & Co Ltd (Engines No 575) when made 1907
 Boilers made at South Shields By whom made Jos. J. Eltringham & Co (Boilers No 1566) when made 1907
 Registered Horse Power Owners Manchester Ship Canal Co Port belonging to Manchester

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel J. Spencer & Sons

(Letter for record 7) Total Heating Surface of Boilers 1393 Is forced draft fitted No No. and Description of Boilers Two Single ended Working Pressure 45 lbs Tested by hydraulic pressure to 90 lbs Date of test 26-7-07
 No. of Certificate 7538 Can each boiler be worked separately Yes Area of fire grate in each boiler 25 No. and Description of safety valves to each boiler Two Spring Area of each valve 9.62 Pressure to which they are adjusted 45 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 10" dia. of boilers 9'-1" Length 10'-4"
 Material of shell plates Steel Thickness 3/8" & 7/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams lap. & r. long. seams lap & r. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3"
 Lap of plates 4 1/2" Per centages of strength of longitudinal joint rivets 90% Working pressure of shell by rules 52 lbs Size of manhole in shell 16" x 12" Size of compensating ring 7" x 3/8" plate 70%
 boiler Two plain Material Steel Outside diameter 34" Length of plain part 83" Thickness of plates 3/8" crown 13/32" bottom 11"
 Description of longitudinal joint lap s.r. No. of strengthening rings Yes Working pressure of furnace by the rules 53 lbs Combustion chamber plates: Material Steel Thickness: Sides 15/32" Back 7/16" Top 7/16" Bottom 13/32" Pitch of stays to ditto: Sides 1 1/4" x 1 3/4" Back 1 1/2" x 1 1/2"
 Top Yes If stays are fitted with nuts or riveted heads Auto Working pressure by rules 46 lbs Material of stays Iron Diameter at smallest part 1 1/32" Area supported by each stay 132.18 Working pressure by rules 53 lbs End plates in steam space: Material Steel Thickness 9/16"
 Pitch of stays 18" x 17 1/2" How are stays secured S. & W. Working pressure by rules 47 lbs Material of stays Steel Diameter at smallest part 1 15/32"
 Area supported by each stay 289 Working pressure by rules 52 lbs Material of Front plates at bottom Steel Thickness 9/16" Material of Lower back plate Steel Thickness 1/2" Greatest pitch of stays 13" x 10" Working pressure of plate by rules 57 lbs Diameter of tubes 3 1/2"
 Pitch of tubes 4 5/8" x 4 5/8" Material of tube plates Steel Thickness: Front 9/16" Back 9/16" Mean pitch of stays 13 7/8" Pitch across wide water spaces 14 1/2" Working pressures by rules 46 lbs Salm stays to Chamber tops: Material Steel Depth and thickness of girder at centre Yes Length as per rule Yes Distance apart 13" Number and pitch of Stays in each Yes
 Working pressure by rules Yes Superheater Steam chest: how connected to boiler Riveted Can the superheater be shut off and the boiler worked separately No Diameter 3'-9" Length 6'-9" Thickness of shell plates 3/8" Material Steel Description of longitudinal joint lap s.r. Diam. of rivet holes 7/8" Pitch of rivets 2 1/4" Working pressure of shell by rules 103 lbs Diameter of flue Yes Material of flue plates Yes Thickness Yes
 If stiffened with rings Yes Distance between rings Yes Working pressure by rules Yes End plates: Thickness 9/16" How stayed Dished
 Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with easing gear Yes

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure
 tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler
 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
 Descrip. of riveting long. seams D.n. of rivet holes Whether punched or drilled Pitch of rivets
 Lap of plating Per centage of strength of joint Rivets None fitted Working pressure of shell by rules Thickness of shell crown plates
 Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 Thickness of furnace plates Description of furnace Working pressure of furnace by rules Thickness of furnace crown plates
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

The foregoing is a correct description,
Jos. J. Eltringham & Co Manufacturer. 5

Dates of Survey while building } During progress of work in shops - - } 1907. May 14, 17, 29, June 13, 20, 23, July 1, 4, 10, 12, 15, 18, 24, 26, 29, 31. = 16.
 } During erection on board vessel - - } Please see Machinery report
 Total No. of visits

Is the approved plan of main boiler forwarded herewith Yes
" " " donkey " " " "



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

These boilers have been built under special survey, the material and workmanship is good and efficient.

Certificate (if required) to be sent to

(The Surveyors are requested not to write or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	When applied for.
Special	£	:	19
Donkey Boiler Fee ...	£	:	When received.
Travelling Expenses (if any) £			19

Please see Machinery Report

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

Committee's Minute

TUES. 5 NOV 1907

Assigned



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If not, state whether, and when, one will be sent

Is a Report also sent on the Hull of the Ship?

Im.4.6.-T.