

Rpt. No.

REPORT ON BOILERS.

No. 50751

Sid. No. 22809

Port of Newcastle

Received at London Office TUES. 5 JUN 1906

No. in Reg. Book.

Survey held at

Gateshead

Date, first Survey

Jan 13

Last Survey

May 1st 1906

(Number of Visits 3)

Tons } Gross 2112.96
Net 1338.42

on the

S.S. Times

Master D. Swensen

Built at Sunderland

By whom built Priestman & Co (No 116)

When built 1906

Engines made at Sunderland

By whom made Messrs J. Dickinson & Sons

When made 1906

Boilers made at Gateshead

By whom made Clarke Chapman & Co (2547d) when made 1906

Registered Horse Power

Owners W. Wilhelmsen

Port belonging to Tonsberg

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

(Letter for record S) Total Heating Surface of Boilers 700 sq ft Is forced draft fitted no No. and Description of

Boilers one, single ended Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 1/5/06

No. of Certificate 7216 Can each boiler be worked separately Yes Area of fire grate in each boiler 24 sq ft No. and Description of

safety valves to each boiler 2 Spring Area of each valve 4.91 sq ft Pressure to which they are adjusted 90 lbs

Are they fitted with casing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 9" fitted rods Mean dia. of boilers 9' 0" Length 9' 0"

Material of shell plates Steel Thickness 17/32 Range of tensile strength 27-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap long. seams J. Lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 1/2"

Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 85 Working pressure of shell by plate 80.5

rules 94 lbs Size of manhole in shell 15" x 12" Size of compensating ring 6 x 17/32 No. and Description of Furnaces in each

boiler 2 - plain Material Steel Outside diameter 31 7/8" Length of plain part top 70" Thickness of plates crown 1/2" bottom 74"

Description of longitudinal joint S. Lap No. of strengthening rings Working pressure of furnace by the rules 113 lbs Combustion chamber

plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 10 1/4 x 10" Back 11" x 9 1/2"

Top 10 x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 103 lbs Material of stays Steel Diameter at

smallest part 1 1/4" Area supported by each stay 104 sq in Working pressure by rules 93 lbs End plates in steam space: Material Steel Thickness 1/16"

Pitch of stays 16 x 15 1/2" How are stays secured S.H. + W. Working pressure by rules 90 lbs Material of stays Steel Diameter at smallest part 2"

Area supported by each stay 248 sq in Working pressure by rules 90 lbs Material of Front plates at bottom Steel Thickness 1/16" Material of

Lower back plate Steel Thickness 1/16" Greatest pitch of stays 11" Working pressure of plate by rules 55 lbs Diameter of tubes 3 1/2"

Pitch of tubes 4 1/4 x 4 1/4" Material of tube plates Steel Thickness: Front 1/16" Back 1/16" Mean pitch of stays 12 3/4" Pitch across wide

water spaces 13" Working pressures by rules 104 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6 1/4" x 1 1/8" Length as per rule 24" Distance apart 10" Number and pitch of Stays in each 1 - 11"

Working pressure by rules 93 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately Yes Diameter Yes Length Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet

holes Yes Pitch of rivets Yes Working pressure of shell by rules Yes 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 Yes How stayed Yes

Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with casing 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 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 casing 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 Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets 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 joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

FOR CLARKE, CHAPMAN & Co. L^{td}

The foregoing is a correct description,

Manufacturer.

J. P. Chapman 1906 Jan 13. Mch. 2. May 1.

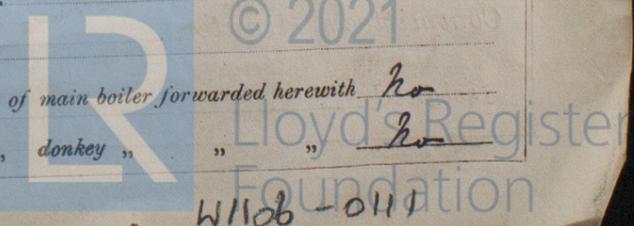
CHAIRMAN.

3

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " " no

W1106-0117



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

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good. It has been placed on board, mounted, and safety valves adjusted under steam.

Certificate (if required) to be sent to
(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	19

Monthly account

Thomas Field & R.W. Coomber.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute WED. 6 JUN 1906

Assigned *see Minute on Sld. Rpt. No 22809*

