

REPORT ON BOILERS.

No. 22455

Port of Sunderland

Received at London Office 19th OCT 1905

No. in Survey held at Sunderland

Date, first Survey 26th May, 1905. Last Survey 3rd October 1905.

Boilers Reg. Book.

S. S. "Hermes"

(Number of Visits 82)

Tons } Gross 3890
Net 2520

Master H. Robinson

Built at Sunderland

By whom built Messrs J. L. Thompson & Son

When built 1905

Engines made at Sunderland

By whom made Messrs G. Clark & Co

When made 1905

Boilers made at Sunderland

By whom made Messrs G. Clark & Co & J. Dickinson

When made 1905

Registered Horse Power

Owners Brumgaard & Jøsteraad & Co

Port belonging to Drammen

MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

fitted on main deck.

Manufacturers of Steel Messrs John Spencer & Sons Ltd

Letter for record 0

Total Heating Surface of Boilers 6890

Is forced draft fitted no

No. and Description of

Boilers one single ended cylindrical Mult

Working Pressure 90lb

Tested by hydraulic pressure to 180lb

Date of test 4.9.05

No. of Certificate 2412

Can each boiler be worked separately ✓

Area of fire grate in each boiler 23

No. and Description of

Safety valves to each boiler 2 Spring loaded

Area of each valve 4910

Pressure to which they are adjusted 90lb

Are they fitted with easing 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 ✓

Mean dia. of boilers 9' 0"

Length 9' 0"

Material of shell plates steel

Thickness 17/32

Range of tensile strength 28/32

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams L. or lap

long. seams L. or lap

Diameter of rivet holes in long. seams 7/8"

Pitch of rivets 37/16"

Lap of plates 6"

Per centages of strength of longitudinal joint 83.78

Working pressure of shell by rules 74.54

Rules 90.7lb

Size of manhole in shell 16 x 12"

Size of compensating ring 7 3/4 x 17/32"

No. and Description of Furnaces in each boiler 2 - plain

Description of longitudinal joint single butt strap

No. of strengthening rings ✓

Working pressure of furnace by the rules 90lb

Combustion chamber

Plates: Material steel

Thickness: Sides 19/32"

Back 19/32"

Top 19/32"

Bottom 19/32"

Pitch of stays to ditto: Sides 11"

Back 11 x 12 1/2"

Top 11"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 91lb

Material of stays steel

Diameter at smallest part 1.73"

Area supported by each stay 12 3/4 x 12 5/8"

Working pressure by rules 90.5lb

End plates in steam space: Material steel

Thickness 3/4"

Pitch of stays 16 1/2 x 16 1/4"

How are stays secured by nuts

Working pressure by rules 105lb

Area supported by each stay 18 1/4 x 16 1/2"

Working pressure by rules 91.5lb

Material of Front plates at bottom steel

Thickness 3/4"

Material of Lower back plate steel

Thickness 3/4"

Greatest pitch of stays 12 1/2 x 11"

Pitch of tubes 4 1/2"

Material of tube plates steel

Thickness: Front 3/4"

Back 9/16"

Mean pitch of stays 8 1/4"

Pitch across wide water spaces 13 1/2"

Working pressures by rules 94.5lb

Girders to Chamber tops: Material steel

Depth and thickness of girder at centre 6 1/4 x 1 1/4"

Length as per rule 24 5/32

Distance apart 11"

Number and pitch of Stays in each one - 11"

Working pressure by rules 92.5lb

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 ✓

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 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

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

Stays

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

John Dickinson & Sons, Limited

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" donkey " " Lloyd's Register Foundation

W1115-0013

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. *This Donkey Boiler has been constructed under Special Survey, the workmanship and materials used are both of good quality, the boiler has been tested by water pressure & proved satisfactory under test*

RETAIN

RETAIN

Certificate (if required) to be sent to
(The Surveyors 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 ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	19

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

Committee's Minute FRI. 6 OCT 1906
Assigned



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Foundation