

REPORT ON MACHINERY.

Nuc. No. 40425.

Sid. No. 20629.

MUN. AUG 26 1901

Port of Newcastle

Received at London Office

19

No. in Survey held at Newcastle

Date, first Survey Jan 9 '00

Last Survey June 13 1900

(Number of Visits 31)

Reg. Book.

on the S.S. Monomoy

Tons } Gross
Net

Master

Built at Sunderland

By whom built J. L. Thompson & Sons

When built

Engines made at Sunderland

By whom made

when made

Boilers made at Smith Shields

By whom made J. T. Ettringham & Co

when made 1900.

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft as per rule

Lgth. of stern bush

Dia. of Tunnel shaft as per rule

Dia. of Crank shaft journals as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

In Holds, &c.

No. of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel

Are the blow off cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

905 sq

Is forced draft fitted

No. and Description of Boilers

Working Pressure

180"

Tested by hydraulic pressure to 360

Date of test 22.5.00

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

26 1/2"

dia. of boilers

10'0"

Length

10'0"

Material of shell plates

Thickness 15/16"

Range of tensile strength

28/32 Tons

Are they welded or flanged

No

Descrip. of riveting: cir. seams

J. R.

long. seams

5-R.

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

5 1/8"

Lap of plates or width of butt straps

10 3/8"

Per centages of strength of longitudinal joint

82

Working pressure of shell by rules

181

Size of manhole in shell

16" x 12"

Size of compensating ring

7' x 15' 1/2"

No. and Description of Furnaces in each boiler

Two plain

Material

St

Outside diameter

35 1/4"

Length of plain part

top 6'8"

bottom 9'0"

Thickness of plates

23/32"

Description of longitudinal joint

J. B. & S. R.

No. of strengthening rings

84

Working pressure of furnace by the rules

192

Combustion chamber plates: Material

St

Thickness: Sides

5/8"

Back

7/16"

Top

5/8"

Bottom

Pitch of stays to ditto: Sides

9 1/8"

Back

10 x 9"

Top

8 1/2 x 8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

180

Material of stays

St

Diameter at smallest part

1 1/8"

Area supported by each stay

90"

Working pressure by rules

186

End plates in steam space:

Material

St

Thickness

15/16"

Pitch of stays

2 1/2"

How are stays secured

J. M. & W.

Working pressure by rules

185

Material of stays

S

Diameter at smallest part

2 1/8"

Area supported by each stay

390"

Working pressure by rules

182

Material of Front plates at bottom

S

Thickness

15/16"

Material of Lower back plate

S

Thickness

27/32"

Greatest pitch of stays

14"

Working pressure of plate by rules

192

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2 x 4 3/8"

Material of tube plates

S

Thickness: Front

15/16"

Back

7/8"

Mean pitch of stays

11 1/4"

Pitch across wide water spaces

13 7/8"

Working pressures by rules

181"

Girders to Chamber tops: Material

S

Depth and

Thickness of girder at centre

2' x 6" x 15/16"

Length as per rule

25"

Working pressure by rules

184

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

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DONKEY BOILER— No. Description

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 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

Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Wm. T. Eltingham & Co. Manufacturers of Marine Boilers

Dates of Survey while building

During progress of work in shops— 1900 Jan 9, 14, 29, Feb 15, 18, 22, 27, Mar 9, 12, 16, 19, 21, 25, 29, 30, Apr 12, 16, 20, 23, 25, 26, 27, May 7, 8, 10, 22, June 1, 12, 13

During erection on board vessel—

Total No. of visits 31

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

General Remarks (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey. The workmanship being good & in every way satisfactory. Has been tested to double the working pressure and found sound & tight. Is eligible in my opinion to be classed—

5775
360
22.5.00.7.9.10

The amount of Entry Fee.. £ : : When applied for, 14 AUG 1900

Special £ 3 : : When received, 12/2/01

Donkey Boiler Fee £ : : 1900

Travelling Expenses (if any) £ : : 1900

Committee's Minute

Assigned

Tom H. Lawry
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation