

REPORT ON MACHINERY.

Port of

Newcastle

SAT. 27 JAN 1894

Received at London Office

No. in Survey held at

South Shields

Date, first Survey

11th Oct. 1893

Last Survey

11th Jan. 1894

Reg. Book.

L.L.L.L. 6. Iron

(Number of Visits)

19

19 on the

Screw steamer "Teleigh"

Tons

Gross 347.26

Net 210.53

When built

1894

Engines made at

South Shields

By whom made

J. P. Remoldson & Sons

when made

1894

Boilers made at

South Shields

By whom made

J. I. Eltringham & Co

when made

1894

Registered Horse Power

45

Owners

D. W. Bain & Co

Port belonging to

Penzance

Nom. Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

Compound Surface Condensing

No. of Cylinders

2

Diameter of Cylinders

17" & 34"

Length of Stroke

22"

Revolutions per minute

Diameter of Screw shaft

as per rule 6 1/8"

Diameter of Thrust shaft

as per rule 5 1/8"

as fitted 6"

Diameter of Crank shaft journals

6 1/8"

Diameter of Crank pin

6 1/8"

Size of Crank webs

4" x 7 1/2"

Diameter of screw

4'-9"

Pitch of screw

12'-0"

No. of blades

4

State whether moveable

no

Total surface

18.95

No. of Feed pumps

one

Diameter of ditto

3"

Stroke

11"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

one

Diameter of ditto

3"

Stroke

11"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

one

Sizes of Pumps

4 1/2" x 2 1/4" x 6"

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

In Engine Room 2 - 2"

In Holds, &c.

2 - 2"

In Holds, &c.

3 - 2' dia

No. of bilge injections

one

sizes

3 1/4"

Connected to condenser

yes

Is a separate donkey suction fitted in Engine room

size

yes 2'

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

yes

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

yes

Are they Valves or Cocks

both

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

yes

Are the discharge pipes above or below the deep water line

yes

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

yes

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

yes

What pipes are carried through the bunkers

none

How are they protected

yes

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

yes

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

yes

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

yes

Is the screw shaft tunnel watertight

none

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &c.—

(Letter for record S)

Total Heating Surface of Boilers

864 sq ft

No. and Description of Boilers

One Cyl. Multitubular Single ended

Working Pressure

100 lbs

Tested by hydraulic pressure to

200 lbs

Date of test

5-12-93

Can each boiler be worked separately

yes

Area of fire grate in each boiler

30 sq ft

No. and Description of safety valves to

each boiler

2 spring

Area of each valve

7.07

Pressure to which they are adjusted

103 lbs

with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Mean diameter of boilers

10'-0"

Length

9'-4"

Material of shell plates

Steel

Thickness

1/16"

Description of riveting: circum. seams

lap double

long. seams

lap treble

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

4 1/4"

Lap of plates

width of butt straps

4 1/2"

Per centages of strength of longitudinal joint

rivets

7/8

plate

7/8

Working pressure of shell by rules

104 lbs

Size of manhole in shell

12" x 16"

Size of compensating ring

4' x 1 1/16"

No. and Description of Furnaces in each boiler

2 plain

Material

Steel

Outside diameter

34"

Length of plain part

top

6'-0"

Thickness of plates

crown

1/16"

Description of longitudinal joint

lap single riv?

No. of strengthening rings

none

Working pressure of furnace by the rules

101 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/32"

Pitch of stays to ditto: Sides

10"

Back

9 3/4"

Top

palm

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

109 lbs

Material of stays

Steel

Diameter at smallest part

1 3/8"

Area supported by each stay

97.5 sq ft

Working pressure by rules

121 lbs

End plates in steam space:

Material

Steel

Thickness

2 1/32"

Pitch of stays

14" x 14 1/2"

Diameter at smallest part

2 1/8"

Area supported by each stay

297.5 sq ft

Working pressure by rules

105 lbs

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of Lower back plate

Steel

Thickness

2 1/32"

Greatest pitch of stays

12"

Working pressure of plate by rules

103 lbs

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4" x 4 1/8"

Material of tube plates

Steel

Thickness: Front

2 1/32" & 3/4"

Back

1/16"

Mean pitch of stays

13"

Pitch across wide water spaces

14"

Working pressures by rules

106 lbs

Girders to Chamber tops: Material

none

Depth and

thickness of girder at centre

yes

Length as per rule

yes

Distance apart

yes

Number and pitch of Stays in each

yes

Working pressure by rules

yes

Superheater or Steam chest; how connected to boiler

neck

Can the superheater be shut off and the boiler worked

separately

no

Diameter

3'-0"

Length

3'-9"

Thickness of shell plates

3/8"

Material

Steel

Description of longitudinal joint

lap double

Diam. of rivet

holes

1/8"

Pitch of rivets

3"

Working pressure of shell by rules

146 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

3'-0" rad.

Working pressure of end plates

yes

Area of safety valves to superheater

yes

Are they fitted with easing gear

yes

Lloyd's Register

Foundation

NW 834-0177

DONKEY BOILER—

Description

none fitted

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 _____

Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Description of riveting long. seams _____ Diameter 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:— *2 Top end bolts & nuts, 2 Bottom end bolts & nuts, 2 Main bearing bolts, 1 set of Coupling bolts, 1 set of feed & bidge pump valves, assorted bolts & nuts, Iron of various sizes, Spare propeller.*

The foregoing is a correct description,

J. W. Pitt Manufacturers of Engines *W. T. Cunningham* Manufacturers of

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

The Machinery of this vessel has been built under Special Survey, the materials and workmanship are sound and good which renders the vessel, in my opinion, eligible to have record + I.M.C. 1, 94 in the Register book

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 1-94

N.A.
27-1-94

Certificate (if required) to be sent to

MACHINERY CERTIFICATE
WRITTEN.*Newcastle Office*

The amount of Entry Fee.. £ / : " : " When applied for,
Special £ 8 : " : " *26.1.18.94*
Donkey Boiler Fee £ " : " : " When received,
Travelling Expenses (if any) £ " : " : " *22.1.18.94*

J. W. Pitt
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUES. 30 JAN 1894

Assigned

*+ L.M.C. 1, 94**Apd Feb 29/94*

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Foundation