

REPORT ON MACHINERY.

No. 19968

Port of Hull

Received at London Office

THUR. 16 APR 1908

No. in Survey held at

Hull

Date, first Survey

Dec 4th 07

Last Survey

April

1908.

Reg. Book.

on the

Steel S. K. New Brown

(Number of Visits

27

Master

Built at

Hull

By whom built

Messrs Earles & Co Ltd

Tons

Gross 283

Net 123

When built 1908

Engines made at

By whom made

when made

Boilers made at

Hull

By whom made

Messrs Earles & Co Ltd

when made

1908

Registered Horse Power

Owners Crown Steam Fishing Co. Ltd

Port belonging to

Grimsby

Nom. Horse Power as per Section 28

88

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

12³/₄ - 22 - 36

Length of Stroke

27"

Revs. per minute

105

Dia. of Screw shaft

as per rule 7¹/₂ - 6³/₄"

Material of

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

Is the after end of the liner made water tight

in the propeller boss

Yes

If the liner is in more than one length are the joints burned

One length

the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

36¹/₂"

Dia. of Tunnel shaft

as per rule 6³/₄"

Dia. of Crank shaft journals

as per rule 7¹/₂"as fitted 7¹/₂"

Dia. of Crank pin

7¹/₂"

Size of Crank webs

14¹/₂ x 4¹/₂"

Dia. of thrust shaft under

collars

7¹/₂"

Dia. of screw

9¹/₂"

Pitch of Screw

11 - 9"

No. of Blades

4

State whether moveable

No

Total surface

29 sq

No. of Feed pumps

2

Diameter of ditto

2¹/₂"

Stroke

14"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2¹/₂"

Stroke

14"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Two

Sizes of Pumps

One 5" Cent.

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

In Engine Room

one 2", one 3"

In Holds, &c.

one 2" from slush well, one

No. of Bilge Injections

1

sizes

3¹/₂"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

Yes 3"

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

0

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

above

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

hold suction

How are they protected

wood casing

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

Dates of examination of completion of fitting of Sea Connections

6.3.08

of Stern Tube

6.3.08

Screw shaft and Propeller

6.3.08

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

5)

Manufacturers of Steel

Phoenix Ges. Abt. Holder Berg. Germany

Total Heating Surface of Boilers

1560 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1 Cyl. Multi

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

17.3.08

No. of Certificate

1637

Can each boiler be worked separately

Area of fire grate in each boiler

36 sq

No. and Description of Safety Valves to

each boiler

Two Spring

Area of each valve

4.9 sq

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

10"

Mean dia. of boilers

13 - 6"

Length

10 - 9"

Material of shell plates

Steel

Thickness

1¹/₂"

Range of tensile strength

28 - 32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L.O.

long. seams

D.B.S.I.R.

Diameter of rivet holes in long. seams

1¹/₈"

Pitch of rivets

7¹/₂"

Lap of plates or width of butt straps

16³/₄"

Per-centages of strength of longitudinal joint

rivets 85.8

plate 85.7

Working pressure of shell by rules

180 lbs

Size of manhole in shell

16 x 12

Size of compensating ring

28" x 31" x 1¹/₂"

No. and Description of Furnaces in each boiler

2 Brightons

Material Steel

Outside diameter

Length of plain part

top - bottom -

Thickness of plates

crown 5 - 1

bottom 5 - 1

Description of longitudinal joint

welded

No. of strengthening rings

0

Working pressure of furnace by the rules

199 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

5 - 8"

Back

21 - 32"

Top

5 - 8"

Pitch of stays to ditto: Sides

9¹/₄ - 8"

Back

9¹/₄ - 8"

Top

9 - 8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

180 lbs

Material of stays

Steel

Diameter at smallest part

1¹/₂"

Area supported by each stay

76 sq

Working pressure by rules

186 lbs

End plates in steam space:

Material

Steel

Thickness

1¹/₈"

Pitch of stays

18" x 17¹/₂"

How are stays secured

d nuts

Working pressure by rules

181 lbs

Diameter at smallest part

2¹/₈"

Area supported by each stay

312.75 sq

Working pressure by rules

206 lbs

Material of Front plates at bottom

Steel

Thickness

1⁵/₁₆"

Material of Lower back plate

Steel

Thickness

7 - 8"

Greatest pitch of stays

14¹/₂ - 8"

Working pressure of plate by rules

193 lbs

Diameter of tubes

3¹/₂"

Pitch of tubes

4¹/₄ - 5¹/₂"

Material of tube plates

Steel

Thickness: Front

1⁵/₁₆"

Back

1³/₁₆"

Mean pitch of stays

Pitch across wide water spaces

14¹/₂"

Working pressures by rules

182 lbs

Girders to Chamber tops: Material Steel

Depth and

thickness of girder at centre

9¹/₂ - 14¹/₂"

Length as per rule

36"

Distance apart

9"

Number and pitch of stays in each

3 - 8"

Working pressure by rules

216 lbs

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

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____
 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 _____ Date of adjustment _____
 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 _____ Rivets _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Plates _____
 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 _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air, circulating, feed + bilge pump valves, and a quantity of assorted bolts nuts etc.

The foregoing is a correct description

F. J. Palethorpe Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1907 - Dec 4. 16. 30. 1908 - Jan 6. 14. 15. 16. 21. 27. 31. Feb 4. 6. 10. 13. 19. Mar 2. 27. }
 { During erection on board vessel - - - Mar 6. 9. 12. 17. 19. 20. 25. 30. 31. Apr 1. 4. }
 Total No. of visits 27. Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 2.3.08 Slides 2.3.08 Covers 2.3.08 Pistons 2.3.08 Rods 2.3.08
 Connecting rods 2.3.08 Crank shaft 19.2.08 Thrust shaft 19.2.08 Tunnel shafts _____ Screw shaft 19.2.08 Propeller 2.3.08
 Stern tube 2.3.08 Steam pipes tested 25.3.08 Engine and boiler seatings 12.3.08 Engines holding down bolts 1.4.08
 Completion of pumping arrangements 4.4.08 Boilers fixed 1.4.08 Engines tried under steam 4.4.08
 Main boiler safety valves adjusted 1.4.08 Thickness of adjusting washers $\frac{3}{8}$ + $\frac{5}{16}$
 Material of Crank shaft Steel Identification Mark on Do. 2015 ATG Material of Thrust shaft Steel Identification Mark on Do. 251 B
 Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts Steel Identification Marks on Do. 125 GAH
 Material of Steam Pipes Solid drawn copper Test pressure 400 lbs per sq inch

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines boiler of this vessel have been constructed under special survey in accordance with the Rules of the Society, the materials and workmanship are good. The boiler tested by hydraulic pressure, and with the engines fitted & secured on board. They are now in good order, and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of *** L M C 4.08** in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. *** L M C 4.08**.

The amount of Entry Fee. £ 1 : : : When applied for, 15/4/1908
 Special . . . £ 13 : 4 : :
 Donkey Boiler Fee . . . £ : : : When received, 9/5/08
 Travelling Expenses (if any) £ : 2 : 9

Committee's Minute

THUR. 16 APR 1908

Assigned + L M C 4.08

MACHINE WRITTEN

James Barclay
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



© 2020

Lloyd's Register Foundation

These par
 Signal Letter

Official No.

127

No., Date, and

Whether British Foreign Built

British

Number of De

Number of Ma

Rigged

Stern

Build

Galleries

Head

Framework an

vessel

Number of Bu

Number of wa

and their ca

Total to quart
 at side amid

No. of
 Engines.

One Re

No. of dirig

shaft

One

Number
 Iron o
 Pressu

Under Tonnag

Closed-in spac

Space or sp

Poop

Forecastle

Round Hou

Other close

Chart

Spaces for ma

Section 78 (

1894, if req

Gros

Deductions, a

Regi

Name

No. of Owner

Name, Reside

16.4.08

Dated 6

W B & L (830