

Rpt. 4.

REPORT ON MACHINERY.

No. 24208

SAT. SEP. 10. 1911

Received at London Office

Date of writing Report

19

When handed in at Local Office

14th Sept 19

Port of Hull

No. in Survey held at

Selby & Hull

Date, First Survey

Jan 3rd

Last Survey

9th Sept 1911

Reg. Book.

8000 on the

Hull Sc. H. Lord Salisbury

(Number of Visits)

46

Master

Built at

Selby

By whom built

Messrs. Cochrane & Sons

Tons

Gross 285

Net 114

When built 1911

Engines made at

By whom made

Messrs

when made 1911

Boilers made at

Hull

By whom made

Charles D. Holmes & Co

when made 1911

Registered Horse Power

Owners

Yorkshire Steam Fishing Co. Ltd

Port belonging to

Hull

Nom. Horse Power as per Section 28

75

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

24

Revs. per minute

113

Dia. of Screw shaft

as per rule 7.4

Material of

S

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

Yes

If 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

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

Length of stern bush

36

Dia. of Tunnel shaft

as per rule 6.4

Dia. of Crank shaft journals

as per rule 7.25

Dia. of Crank pin

7.25

Size of Crank webs

14 - 4¹/₂

Dia. of thrust shaft under

collars

No. of Feed pumps

1

Diameter of ditto

2³/₈

Stroke

14¹/₄

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

2³/₈

Stroke

14¹/₄

Can one be overhauled while the other is at work

No. of Donkey Engines

One

Sizes of Pumps

6" x 4¹/₂" x 6"

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

In Engine Room

Two 2", one 2¹/₂", one 3"

In Holds, &c. One each 2" to fore hold, to

slush well, and to cross bunker, and Ejector suction to these parts

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

pmp

Is a separate Donkey Suction fitted in Engine room & size

Yes 2¹/₂" Ejector

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

None

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

22.7.11

of Stern Tube

22.7.11

Screw shaft and Propeller

22.7.11

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Phoenix Act. Ges.

Horseshoe

Total Heating Surface of Boilers

1180 sq ft

Is Forced Draft fitted

No

No. and Description of Boilers

One cyl. Mult. Single Ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test

30.6.11

No. of Certificate

1821

Can each boiler be worked separately

Area of fire grate in each boiler

39 sq ft

No. and Description of Safety Valves to

each boiler

Two Spring

Area of each valve

3.94 sq ft

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

7"

Mean dia. of boilers

12' 9"

Length

10' 6"

Material of shell plates

S

Thickness

1⁵/₃₂"

Range of tensile strength

28 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L.D.

long. seams

D.O.S.I.R.

Diameter of rivet holes in long. seams

1³/₁₆"

Pitch of rivets

8"

Lap of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

rivets 88.8

plate 85

Working pressure of shell by rules

201 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

4' x 1⁵/₃₂"

No. and Description of Furnaces in each boiler

Two plain

Material

S

Outside diameter

3' 8⁵/₈"

Length of plain part

top 5' 4¹/₂"

Thickness of plates

crown 1¹³/₃₂"bottom 1⁷/₁₆"

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

200 lbs

Combustion chamber plates: Material

S

Thickness: Sides

2³/₃₂"

Back

2³/₃₂"

Top

2³/₃₂"

Bottom

2³/₃₂"

Pitch of stays to ditto: Sides

9¹/₂" x 8¹/₂"

Back

9¹/₂" x 8¹/₂"

Top

8¹/₂" x 10"

If stays are fitted with nuts or riveted heads

No

Working pressure by rules

203 lbs

Material of stays

S

Diameter at smallest part

1⁵/₈"

Area supported by each stay

87.8 sq ft

Working pressure by rules

212 lbs

Material

S

Thickness

1³/₁₆"

Pitch of stays

18" x 18"

How are stays secured

D. 7¹/₂" washers 8 x 3¹/₄"

Working pressure by rules

206 lbs

Material of Front plates at bottom

S

Thickness

1⁵/₃₂"

Material of Lower back plate

S

Thickness

3¹/₃₂"

Greatest pitch of stays

15" x 9⁵/₈"

Working pressure of plate by rules

210 lbs

Diameter of tubes

3¹/₂"

Pitch of tubes

4⁷/₈" x 5"

Material of tube plates

S

Thickness: Front

1⁵/₁₆"

Back

7⁷/₈"

Mean pitch of stays

9⁷/₈"

Pitch across wide water spaces

14³/₄"

Working pressures by rules

283 lbs

Girders to Chamber tops: Material

S

thickness of girder at centre

9¹/₂" x 2"

Length as per rule

3' 0"

Distance apart

10"

Number and pitch of stays in each

Three 8¹/₂"

Working pressure by rules

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— 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		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets 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	Radius of do.	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 feed, bilge, air, and circulating pump valves, a quantity of assorted bolts, nuts etc. and iron various sizes.

The foregoing is a correct description,

W. H. FOLMES, MANUFACTURER.

Dates of Survey while building	During progress of work in shops	1411- Jan 3. 7. 11. 13. Feb 9. 14. 20. Mar 28. 31. Apr 6. 10. 20. May 3. 8. 10. 29. 31. Jun 7. 13. 16. 19. 26
	During erection on board vessel	29. 30. July 7. 10. 17. 18. 21. 22. 26. 28. Aug 4. 9. 10. 17. 18. 21. 23. 28. 29. 30. Sep 2. 4. 6. 9
Total No. of visits	46	

Is the approved plan of main boiler forwarded herewith Yes ✓

Dates of Examination of principal parts	Cylinders	29. 6. 11	Slides	28. 7. 11	Covers	12. 6. 11	Pistons	12. 7. 11	Rods	3. 5. 11	
Connecting rods	10. 4. 11	Crank shaft	10. 4. 11	Thrust shaft	4. 8. 11	Tunnel shafts		Screw shaft	19. 6. 11	Propeller	16. 6. 11
Stern tube	16. 6. 11	Steam pipes tested	30. 8. 11	Engine and boiler seatings	18. 8. 11	Engines holding down bolts	2. 9. 11				
Completion of pumping arrangements	9. 9. 11	Boilers fixed	2. 9. 11	Engines tried under steam	9. 9. 11						
Main boiler safety valves adjusted	2. 9. 11	Thickness of adjusting washers	13. 32								
Material of Crank shaft	5	Identification Mark on Do.	751. J.B.	Material of Thrust shaft	5	Identification Mark on Do.	751. J.B.				
Material of Tunnel shafts		Identification Marks on Do.	751. J.B.	Material of Screw shafts	1	Identification Marks on Do.	751. J.B.				
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 and boilers of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are sound and good. The boiler tested by hydraulic pressure, and with the engines placed on board and tested under steam. 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. 9. 11 in the Register Book

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 9. 11.

J.W.D. 18/9/11

The amount of Entry Fee	£ 1	When applied for,	15. 9. 11
Special	£ 11. 5	When received,	30/9/11
Donkey Boiler Fee	£		
Travelling Expenses (if any)	£		

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

Committee's Minute TUE SEP 19 1911

Assigned

MINISTRY CERTIFICATE



© 2020

Lloyd's Register Foundation