

Received at London Office

Date of writing Report

19

When handed in at Local Office

10/6/13 Port of

WED. JUN. 11. 1913

No. in Survey held at
Reg. Book.

Hull.

Date, First Survey

Mar 17th

Last Survey

Jun 3rd 1913.29^{Sup.} on the

Steel Lug. "Yewgarth"

(Number of Visits)

17

Gross

118.

Tons

Net 30

Master

Built at

Selby.

By whom built

Cochrane & Sons Ltd

When built

Engines made at

Hull.

By whom made

C. W. Holmes & Co. Ltd

when made

1913.

Boilers made at

Hull.

By whom made

C. W. Holmes & Co. Ltd

when made

1913.

Registered Horse Power

Owners

Rea Transport Co Ltd

Port belonging to

Liverpool.

Nom. Horse Power as per Section 28

79.

Is Refrigerating Machinery fitted for cargo purposes

no.

Is Electric Light fitted

no.

ENGINES, &c.—Description of Engines

Compound Inverted

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

17" x 36"

Length of Stroke

14"

Revs. per minute

118.

Dia. of Screw shaft

as per rule 7.73

Material of

iron.

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

no.

Is the after end of the liner made water tight

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

no.

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

no.

If two

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

lapped.

Length of stern bush

3'-6"

Dia. of Tunnel shaft

as per rule 7.145

Dia. of Crank shaft journals

as per rule 7.5

Dia. of Crank pin

7 3/4

Size of Crank webs

14 3/8

Dia. of thrust shaft under

collars

as fitted 7 5/8

Dia. of screw

9'-0"

Pitch of Screw

10'-3"

No. of Blades

4

State whether moveable

no.

Total surface

30 sq

No. of Feed pumps

One

Diameter of ditto

2 3/4"

Stroke

14 1/4"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

One

Diameter of ditto

2 3/4"

Stroke

14 1/4"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

One

Sizes of Pumps

4 1/2" x 3" x 6"

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

In Engine Room

Two 2"

One 2" in Boiler room

In Holds, &c.

One 2" to Cabin

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

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

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

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.

Dates of examination of completion of fitting of Sea Connections

22.4.13.

of Stern Tube

22.4.13.

Screw shaft and Propeller

22.4.13.

Is the Screw Shaft Tunnel watertight

None.

Is it fitted with a watertight door

worked from

yes.

BOILERS, &c.—(Letter for record

S.)

Manufacturers of Steel

Steel Company of Scotland.

Total Heating Surface of Boilers

1500

Is Forced Draft fitted

no.

No. and Description of Boilers

One Cylindrical Single-ended

Working Pressure

140 lbs.

Tested by hydraulic pressure to

280 lbs.

Date of test

7.5.13.

No. of Certificate

1981.

Can each boiler be worked separately

yes.

Area of fire grate in each boiler

49.5 sq

No. and Description of Safety Valves to

each boiler

2 Spring-loaded

Area of each valve

70"

Pressure to which they are adjusted

145 lbs.

Are they fitted with easing gear

yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

7"

Mean dia. of boilers

12-11 1/8"

Length

10'6"

Material of shell plates

Steel

Thickness

7/8"

Range of tensile strength

28 tons.

Are the shell plates welded or flanged

yes.

Descrip. of riveting: cir. seams

OR Lap.

long. seams

J.R. White

Diameter of rivet holes in long. seams

3 1/2"

Pitch of rivets

6 7/8"

Lap of plates or width of butt straps

15"

Per centages of strength of longitudinal joint

rivets 91.1%

plate 85.9%

Working pressure of shell by rules

146.1 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

30" x 26"

No. and Description of Furnaces in each boiler

3 Plain

Material

Steel

Outside diameter

3' 1/4"

Length of plain part

top 6'9"

bottom 5'11"

Thickness of plates

crown 5/8"

bottom 5/8"

Description of longitudinal joint

Welded.

No. of strengthening rings

yes.

Working pressure of furnace by the rules

140 lbs.

Combustion chamber plates: Material

Steel

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

5/8"

Pitch of stays to ditto: Sides

10" x 9"

Back

9 1/4" x 9 1/4"

Top

10" x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts.

Working pressure by rules

149 lbs.

Material of stays

Steel

Diameter at smallest part

1.76

Area supported by each stay

90"

Working pressure by rules

155 lbs.

and plates in steam space:

Material

Steel

Thickness

1 1/8"

Pitch of stays

17" x 16 1/2"

How are stays secured

N.W.

Working pressure by rules

148 lbs.

Material of stays

Steel.

Diameter at smallest part

3.85

Area supported by each stay

280.3

Working pressure by rules

142.5

Material of Front plates at bottom

Steel.

Thickness

1 1/8"

Material of Lower back plate

Steel

Thickness

1 1/8"

Greatest pitch of stays

14 1/2"

Working pressure of plate by rules

147.0"

Diameter of tubes

3 1/2"

Pitch of tubes

4 5/8"

Material of tube plates

Steel

Thickness: Front

1 1/8"

Back

1 1/8"

Mean pitch of stays

3 7/8" x 9 1/4"

Pitch across wide water spaces

14 1/2"

Working pressures by rules

170 lbs.

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

8" x 8 1/2" x 1 1/2"

Length as per rule

33 9/16"

Distance apart

8 1/2" x 10"

Number and pitch of stays in each

Two. 10"

Working pressure by rules

146 lbs.

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

yes.

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 top and two bottom end connecting rod bolts & nuts. One set of feed & bilge pump valves. Two main bearings bolts. One set of coupling bolts. Quantity of assorted bolts & nuts & iron of different sizes.*

The foregoing is a correct description,

CHARLES D. HOLMES & CO. LTD Manufacturer.

Dates of Survey while building	During progress of work in shops -	<i>Jun 3.</i>	Is the approved plan of main boiler forwarded herewith <i>yes.</i>
	During erection on board vessel - - -	<i>17.</i>	
Total No. of visits			

Dates of Examination of principal parts—Cylinders *25.4.13* Slides *25.4.13* Covers *30.4.13* Pistons *28.4.13* Rods *25.4.13* Connecting rods *25.4.13* Crank shaft *15.5.13* Thrust shaft *15.5.13* Tunnel shafts *15.5.13* Screw shaft *21.4.13* Propeller *21.4.13* Stern tube *16.4.13* Steam pipes tested *24.5.13* Engine and boiler seatings *22.4.13* Engines holding down bolts *24.5.13* Completion of pumping arrangements *3.6.13* Boilers fixed *27.5.13* Engines tried under steam *27.5.13* Main boiler safety valves adjusted *27.5.13* Thickness of adjusting washers *after valve 1/4" For. val. 3/16"* Material of Crank shaft *Steel* Identification Mark on Do. *1069 T.G.B.* Material of Thrust shaft *Steel* Identification Mark on Do. *1069 T.G.B.* Material of Tunnel shafts *Steel* Identification Marks on Do. *1069 T.G.B.* Material of Screw shafts *Iron* Identification Marks on Do. *1069 T.G.B.* Material of Steam Pipes *Solid drawn copper* Test pressure *300 lbs.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & Boiler of this vessel have been constructed under special and in accordance with the Rules. The materials and workmanship are good & sound. The Boiler was tested by hydraulic pressure, and with the engines secured on board and tested under steam. They are now in safe working condition & good order, and respectfully submit them as being eligible in our opinion to be classed with the notation of +LMC 6.13. in the Register book.*

It is submitted that this vessel is eligible for THE RECORD. + LMC 6.13.

The amount of Entry Fee	£ 1 : 0 : 0	When applied for, <i>10/6/13</i>
Special	£ 11 : 17 : 6	
Donkey Boiler Fee	£	When received, <i>20/6/13</i>
Travelling Expenses (if any)	£ 4 : 1 : 0	

Committee's Minute *FRI JUN 13 1913*
Assigned *June 6 13*

MINISTRY CERTIFICATE
WRITTEN