

Rpt. 4.

REPORT ON MACHINERY.

No. 27834
WED. 16 JUN 1909

Received at London Office

Date of writing Report

10th June 1909

When handed in at Local Office

12th June 1909

Port of Glasgow

Date, First Survey

H. H. Deverfos

Last Survey

11th June 1909

(Number of Visits 42)

No. in Survey held at

Glasgow

Reg. Book.

on the 10.10.

Tons

Gross

Net

When built

1909

when made

1909

when made

1909

when made

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when made

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Master

Built at

By whom built

Carrere & Laporte Freres

Engines made at

Glasgow

By whom made

Barclay Curle & Co (C.N. 10)

when made

1909

Boilers made at

Do

By whom made

Do

when made

1909

Port belonging to

Registered Horse Power

Owners

Is Electric Light fitted

Nom. Horse Power as per Section 28

247

Is Refrigerating Machinery fitted for cargo purposes

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

21", 35", 56"

Length of Stroke

36"

Revs. per minute

10.98

Dia. of Screw shaft

as per rule 10.98

Material of

iron

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

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

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

If two

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

Length of stern bush

3' 9"

Dia. of Tunnel shaft

as per rule 10.27

Dia. of Crank shaft journals

as per rule 10.98

Dia. of Crank pin

11"

Size of Crank webs

16 1/2" x 7 1/4"

Dia. of thrust shaft under

collars

11"

Dia. of screw

12' 6"

Pitch of Screw

14' 6"

No. of Blades

4

State whether moveable

No

Total surface

50 sq

No. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

18"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

18"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

SIZES OF PUMPS

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

In Holds, &c.

In Engine Room

No. of Bilge Injections

1

sizes

5 1/2"

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

How are they protected

What pipes are carried through the bunkers

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

Dates of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Wm Beardmore & Steel Co of Scotland

Total Heating Surface of Boilers

3508 sq

Is Forced Draft fitted

Yes

No. and Description of Boilers

2 Single Ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

27.4.09

No. of Certificate

9869

Can each boiler be worked separately

Area of fire grate in each boiler

41.55 sq

No. and Description of Safety Valves to

each boiler

Double spring loaded

Area of each valve

5.939 sq

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Thickness

1 1/2"

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D. Riv.

long. seams

T.A.D.B.S.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

7 1/8"

Top of plates or width of butt straps

16 5/8"

Per centages of strength of longitudinal joint

rivets

87.6

Working pressure of shell by rules

182 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

3' 6" x 2' 10" x 1 1/2"

No. and Description of Furnaces in each boiler

2 Diagonal

Material

Steel

Outside diameter

4' 1 1/4"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

weld

No. of strengthening rings

5/8"

Back

5/8"

Top

5/8"

Bottom

Working pressure of furnace by the rules

180

Combustion chamber plates: Material

Steel

Thickness: Sides

5/8"

Working pressure by rules

185

Pitch of stays to ditto: Sides

8" x 8 1/2"

Back

8" x 8"

Top

9 1/4" x 7 1/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180

End plates in steam space:

Material of stays

iron

Diameter at smallest part

1 1/2"

Area supported by each stay

1.73

How are stays secured

O. nuts

Working pressure by rules

186

Material of stays

Steel

Material

Steel

Thickness

1 1/2"

Pitch of stays

19" x 7 1/4"

Working pressure by rules

188

Material of Front plates at bottom

Steel

Thickness

3/4"

Diameter of tubes

2 1/2"

Pitch of tubes

3 1/4" x 3 1/2"

Material of tube plates

Steel

Thickness: Front

3" x 9"

Back

3 1/2"

Mean pitch of stays

9 1/4"

Pitch across wide water spaces

13 1/2"

Working pressures by rules

216 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

9" x 20 3/4"

Length as per rule

2.835

Distance apart

9 1/4"

Working pressure by rules

VERTICAL DONKEY BOILER—

Manufacturers of Steel

Reported on separate form

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	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description, **FOR BARCLAY, CURLE & CO., LTD.**

Manufacturer Charles Randolph Smith Director

Dates of Survey while building
 During progress of work in shops— 1908. Dec 4. 8. 11. 14. 17. 21. 1909. Jan 11. 13. 19. 22. 26. 28. Feb 2. 5. 9. 12. 15. 17.
 During erection on board vessel— 18. 24. March 2. 4. 8. 10. 13. 16. 17. 22. 23. 31. April 2. 6. 9. 13. 16. 20. 23. May 3. 6. 14.
 Total No. of visits June 11. H2.

Is the approved plan of main boiler forwarded herewith No

Dates of Examination of principal parts—Cylinders 13. 4. 09 Slides 9. 4. 09 Covers 13. 4. 09 Pistons 9. 4. 09 Rods 2. 2. 09
 Connecting rods 2. 2. 09 Crank shaft 17. 3. 09 Thrust shaft 10. 3. 09 Tunnel shafts 18. 5. 09 Screw shaft 23. 4. 09 Propeller 18. 5. 09
 Stern tube 2. 4. 09 Steam pipes tested Engine and boiler seatings Engines holding down bolts
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Material of Crank shaft Steel Identification Mark on Do. 10 Material of Thrust shaft Steel Identification Mark on Do. 1060
 Material of Tunnel shafts Steel Identification Marks on Do. 1063. 1045 Material of Screw shafts iron Identification Marks on Do. 2859. A
 Material of Steam Pipes Test pressure

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

The machinery has been built under special survey. The material and workmanship being good. It is being forwarded to Trieste for fitting aboard. It is submitted that above vessel will be eligible for a record of + L. M. C. (with date) when the machinery has been fitted aboard and satisfactorily tried under steam. The boilers are duplicates of those fitted for C. N. 9: Man of which has been forwarded.

The amount of Entry Fee .. £ 2. 0. 0.
 One Glass Special .. £ 1. 4. 4.
 Donkey Boiler Fee .. £ :
 Travelling Expenses (if any) £ :
 When applied for 12/6/09
 When received 30.7.09

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

Committee's Minute GLASGOW 15 JUN. 1909

Assigned Defered for completion

TUES. 1 MAR 1910

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