

REPORT ON MACHINERY.

No. 23829

Received at London Office

SAT 17 JUN 1911

Date of writing Report

19

When handed in at Local Office

12 June 1911 Port of Hull

No. in Survey held at
Reg. Book.

Hull and Goole

Date, First Survey

Jan 3rd

Last Survey

7th June 1911

on the

Sc. Larrea

Master

Built at

Goole

By whom built

Geo. S. B. R. Co. Ltd

Tons

Gross 132
Net 5

When built

1911

Engines made at

By whom made

Messrs

when made

1911

Boilers made at

Hull

By whom made

Earle's Co. Ltd

when made

1911

Registered Horse Power

Owners Argentine Navigation Co. Ltd

Port belonging to Buenos Ayres

Nom. Horse Power as per Section 28

93

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

13 1/2" 22" 37"

Length of Stroke

24"

Revs. per minute

110

Dia. of Screw shaft

as per rule 7.9
as fitted 8 1/2"

Material of

Steel

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

Yes

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

If two

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

No

Length of stern bush

34 1/2"

Dia. of Tunnel shaft

as per rule 6.67"
as fitted 6.75"

Dia. of Crank shaft journals

as per rule 7.0"
as fitted 7.5"

Dia. of Crank pin

7 1/2"

Size of Crank webs

14" x 4 1/2"

Dia. of thrust shaft under

collars

7 1/4"

Dia. of screw

9'-3"

Pitch of Screw

11'-6"

No. of Blades

4

State whether moveable

No

Total surface

36 sq ft

No. of Feed pumps

2

Diameter of ditto

2 1/4"

Stroke

15"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 1/4"

Stroke

15"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

One

Sizes of Pumps

6" x 4" x 6"

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

In Engine Room

Two 2" one 3 1/2", One 2" in Bl. Room

In Holds, &c.

One each 2" in fore peak, in

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

pump

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

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

None

How are they protected

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

10.4.11

of Stern Tube

10.4.11

Screw shaft and Propeller

10.4.11

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

No

worked from

BOILERS, &c.—(Letter for record

8)

Manufacturers of Steel

Phoenix A. G. fur B. & H. B. Horder Verlin

Total Heating Surface of Boilers

1700 sq ft

Is Forced Draft fitted

No

No. and Description of Boilers

One Cyl. Multi Single End

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

19.4.11

No. of Certificate

1805

Can each boiler be worked separately

No

Area of fire grate in each boiler

47 sq ft

No. and Description of Safety Valves to

each boiler

Two Spring

Area of each valve

49 sq in

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

8"

Mean dia. of boilers

13'-3"

Length

11'-6"

Material of shell plates

5

Thickness

1 3/32"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L. D

long. seams

D. B. S. J. R.

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 5/16"

Lap of plates or width of butt straps

18 1/2"

Per centages of strength of longitudinal joint

rivets 100
plate 84.9

Working pressure of shell by rules

181 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 1 3/32"

No. and Description of Furnaces in each boiler

2 Deightons

Material

Steel

Length of plain part

top
bottom

Thickness of plates

crown 5"
bottom 8"

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

196 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

23/32"

Back

11/16"

Top

3/32"

Pitch of stays to ditto: Sides

10 1/4" x 9 1/2"

Back

8 1/2" x 9 1/2"

Top

9 1/2" x 10 1/4"

If stays are fitted with nuts or riveted heads

Nuts

Material of stays

Steel

Diameter at smallest part

1 5/8"

Area supported by each stay

103.125

Working pressure by rules

180 lbs

End plates in steam space:

Material

Steel

Thickness

1 5/32"

Pitch of stays

18 1/2" x 1 1/2"

How are stays secured

D. B. W.

Working pressure by rules

184 lbs

Material of stays

Steel

Diameter at smallest part

6.23"

Area supported by each stay

323.75

Working pressure by rules

200 lbs

Material of Front plates at bottom

Steel

Thickness

29/32"

Material of Lower back plate

Steel

Thickness

1/8"

Greatest pitch of

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 feed and bilge pump valves, iron various sizes, and a quantity of assorted bolts and nuts

The foregoing is a correct description,

F. J. Gale Thorpe Manufacturer. LMB

Dates of Survey while building: During progress of work in shops — Jan 3. 10. 12. 14. 18. 31. Feb 3. 8. 10. 11. 13. 15. 22. 22. 24. 25. Mar 1. 2. 6. 8. 11. 13. 22. 23. 24. During erection on board vessel — Mar 27. 28. 29. Apr 1. 3. 4. 5. 7. 8. 10. 11. 12. 13. 19. 20. 21. 24. 26. 27. 29. May 1. 2. 3. 4. 5. 6. 8. 10. 26. 31. Total No. of visits 59.

Is the approved plan of main boiler forwarded herewith Yes ✓

Dates of Examination of principal parts—Cylinders 7. 4. 11 Slides 13. 4. 11 Covers 5. 4. 11 Pistons 3. 4. 11 Rods 3. 1. 11

Connecting rods 5. 4. 11 Crank shaft 13. 2. 11 Thrust shaft 13. 4. 11 Tunnel shafts _____ Screw shaft 1. 4. 11 Propeller 1. 4. 11

Stern tube 1. 4. 11 Steam pipes tested 2. 5. 11 Engine and boiler seatings 19. 4. 11 Engines holding down bolts 5. 5. 11

Completion of pumping arrangements 2. 6. 11 Boilers fixed 5. 5. 11 Engines tried under steam 7. 6. 11

Main boiler safety valves adjusted 2. 6. 11 Thickness of adjusting washers 3/8" 3/8"

Material of Crank shaft 3 Identification Mark on Do. 730 J.B. Material of Thrust shaft 5 Identification Mark on Do. 1963. 27. 3. 11 692. 2. 11. 9.

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts 5 Identification Marks on Do. 1963. 27. 3. 11 692. 2. 11. 9.

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 Society's Rules. The materials & workmanship are good. The boiler tested by hydraulic pressure, and with the engines secured 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. 6. 11 in the Register Book.

It is submitted that this vessel is eligible for THE LLOYD + L.M.C. 6. 11.

J.W.D. 20/6/11

The amount of Entry Fee £ 1 : : When applied for, 16-6-1911

Special £ 13. 19 : : When received, 1. 7. 11

Donkey Boiler Fee £ : : 7. 7. 11

Travelling Expenses (if any) £ : 8 6 : : 1911

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

Committee's Minute

Assigned

JUN 20 1911

+ L.M.C. 6. 11



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