

No. 1117

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 1077 No. in Register Book 1664

FIROZA EX

SERINGA EX

S.S. "FALLS CITY"

Makers of Engines Blair & Co Ltd.

Works No. 1780

Makers of Main Boilers Blair & Co Ltd.

Works No. 1780

Makers of Donkey Boiler Sudron & Co.

Works No. 3213.

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. *1077* No. in Register Book *1664*

Received at Head Office

*25 Nov 1913*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the *Steel Screw Steamer*  
*"Yalls City"*

Port of Registry

*Bideford*

Registered Owners

*W. R. Smith Sons*

Surveyor's District

*Tees Wear*

Date of Completion of Engines

*11-13*

" " " Main Boilers

*11-13*

" " " Donkey

*11-13*

Trial Run *the North Sea*

Date *22-11-13*

First Visit *15-8-13*

Last Visit *22-11-13*

Total Number of Visits

*29*

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## ENGINES.

Made by

Blair Co.

" at

Stockton

Description

Triple expansion S.E. 3 cks.

No. of Cylinders, each Engine

3

Diars.

26"-42"-70" Stroke 48"

Cub. feet in each L.P. Cylr.

106.8

Revs. per Min.

58

L.H.P.

1600

Pressure in I.P. Receiver at full Power

2nd I.P.

L.P.

Thickness of Metal in H.P. Cylr.

1  $\frac{3}{8}$ "

I.P.

1  $\frac{3}{8}$ "

"

"

1  $\frac{3}{8}$ "

" " " " Liner

1  $\frac{3}{8}$ "

"

"

"

"

"

" " " " Valve Chest

1  $\frac{5}{16}$ "

"

"

"

"

1  $\frac{5}{16}$ "

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.?

H.P. only.

"

"

"

each Receiver?

L.P. &amp; M.P. only.

Number of ~~Bolts~~ Studs in H.P. Cylr. Cover

27

I.P.

32

2nd I.P.

✓

L.P.

44

Eff. Diar.

"

"

1.067"

"

1.067"

"

"

1.067"

Pitch

"

"

3  $\frac{7}{8}$ "

"

4  $\frac{1}{2}$ "

"

"

5  $\frac{1}{4}$ "

Type of H.P. Valves (Piston or Slide)

piston

"

slide

"

"

slide

" Valve Gear

Stephenson's link motion.

Diameter of Piston Rods (plain part)

1  $\frac{1}{4}$ "

At Bottom of Thread

5.681"

Makers

"

R. S. Bagnall Sons

Material

Iron

Diameter of Connecting Rods (smallest part)

1  $\frac{1}{4}$ "

Material

Iron

Makers

"

R. S. Bagnall Sons

Diar. of Crosshead Gudgeons

8  $\frac{1}{2}$ "

Length of Bearing

12"

Material

Iron

No. of Top End Bolts (each Rod)

2

Effective Diar.

4.179"

Material

W. Iron.

" Bot. " "

2

" 4.179"

"

"

" Main Bearings

6

Lengths

4 at 15  $\frac{1}{2}$ ", 2 at 14  $\frac{1}{4}$ "

" Bolts in each

2

Effective Diar.

3.619"

Material

W. Iron.

No. of Holding Down Bolts, each Engine

41

No. of Metal Chocks

Eff. Diar. " " "

1.494"

Average Pitch

1'-4"

Are the Engines bolted directly to the Tank Top?

no.

Are the Bolts tapped through the Tank Top and fitted with Nuts inside

no.

Date of Test of Tank by Water Pressure with Holding Down Bolts in place

Built seat.

## SKETCHES.



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## SKETCHES.

SKETCHES.

## SHAFTING.

Are Crank Shafts Built? *Yls.* No. of Lengths in each *3* Angle of Cranks *120°*

Diar. of Crank Shafts by Rule Actual *14 1/4"* Diar. in Way of Webs *14 3/4"*

Makers of *Jno. Spencer Stone* Material *I.P.*

Diar. of Crank Pins *14 3/4"* Diar. in Way of Web *14 3/4"*

Makers of *Jno. Spencer Stone* Material *I.P.*

Width across Crank Webs at Centre of Shaft *28 1/4"* Thickness *9 1/2"*

" " " " Crank Pins *28 1/4"* " *9 1/2"*

" " " " Narrowest part *24"* " *9 1/2"*

Makers of Crank Webs *Blair Co. Ltd.* Material *Iron*

Diar. or Breadth of Keys in Crank Webs *2.347* Length *8 1/2"*

" of Dowel Pins in Crank Pins *2.047* Length *8 1/2"* Screwed or Plain *screwed.*

No. of Bolts in each Coupling *9* Diar. at Mid Length *3"* Diar. of Pitch Circle *20 1/8"*

Material of Coupling Bolts *W. Iron*

Crank Shafts Finished by *Blair Co.*

Greatest Distance from edge of Main Bearing to Crank Web *1/8"*

Description of Thrust Blocks *Horseshoe type.*

Number " " Rings *6*

Diar. of Thrust Shafts by Rule Actual (at bot. of Collars) *14 1/4"* Over Collars *22 1/2"*

" " at Forward Coupling *14 1/4"* After Coupling *14 1/4"*

No. of Thrust Collars *6* Thickness *2 3/4"* Distance apart *5 5/8"*

Thrust Shafts Forged by *Jno. Spencer Stone* Material *I.P.*

" Finished by *Blair Co.*

Diar. of Intermediate Shafting by Rule Actual *13 3/4"*

No. of Lengths, each Engine *6* No. of Tunnel Bearings *6*

Diar. of Bearings *14"* Length *18"* Distance apart *17 1/6"*



No. of Bolts, each Coupling 7      Diam. at Mid Length 3"      Diam. of Pitch Circle 20 1/8"

Intermediate Shafts Forged by Jno. Spence, Sons. Material I.S.

" " Finished by Blair Co.

Diam. of Propeller Shafts by Rule Actual 15 3/4" At Couplings 14 3/4"

Are Propeller Shafts fitted with Continuous Brass Liners? yto.

Diam. over Liners 17 1/2" Length of After Bearings 5' 4"

Of what Material are the After Bearings composed?ignum Vitae.

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing 5' 2"

Are the After Bearings lubricated with Oil or Sea Water? sea water.

What means are adopted to prevent Sea Water entering the Stern Tubes? none

Propeller Shafts Forged by Jno. Spence, Sons. Material I.S.

" " Finished by Blair Co.

No. of Propellers 1      Diam. 17 1/2"      Pitch 17' 6"

" Blades, each Propeller 4      Fitted or Solid solid

Material of Blades Cast Iron.      Boss Cast Iron.

Surface, each Propeller 96 sq.      Diam. of Propeller 15' 4"

Coefficient of Displacement of Vessel at 1/2 Moulded Depth Rule Diam. of Crank Shaft =

# SKETCHES.



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## TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of Astern "

Revs. per Min.

No. of L.P. Turbines

How arranged

Horse Power

Diar. of H.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of H.P. Turbine Casings

Lengths of Blades in H.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of L.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of L.P. Turbine Casings

Lengths of Blades in L.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Astern Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of Astern Turbine Casings

Lengths of Blades in Astern Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Turbine Spindles

Length of Bearing

No. of Thrust Collars on each Spindle

Thickness

Distance apart

Diar. of Spindles at Bottom of Collars

Diar. over Collars

Spindles Forged by

Material

" Finished by

## SKETCHES.



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## PUMPS, ETC.

No. of Air Pumps 1      Diar. 2 3"      Stroke 34"

Type of " Single acting.

Diar. of Air Pump Rod 3 1/2"      Material Muntz metal.

How are Air Pumps Worked? by levers from L. P. crosshead.

No. of Centrifugal Circulating Pumps 1      Maker

" Reciprocating " " 1      Diar. 1 3 1/2"      Stroke 34"

Diar. of Circulating Pump Rods 3 1/2"      Material Muntz metal

How are Circulating Pumps Worked? by levers from L. P. crosshead.

Diar. of Circulating Pump Suction from Sea 10"

Has each Circulating Pump a Bilge Suction with Non-return Valve? yes.      Diar. 7"

No. of Feed Pumps on each Engine 2      Diar. 3 1/2"      Stroke 34"

Where do they pump from? Notwell

" " discharge to? Boilers

Are Spring-loaded Relief Valves fitted to each Pump? yes.

Can one Pump be overhauled while the others are at work? yes.

No. of Bilge Pumps on each Engine 2      Diar. 3 1/2"      Stroke 34"

Where do they pump from? Sea. Bilges

" " discharge to? Overboard, Deck.

Can one Pump be overhauled while the others are at work? yes.

No. of Bilge Injections connected to Condensers one      Diar. 7"

Are all Bilge Suctions fitted with Roses? yes.

Are the Valves, Cocks, and Pipes so arranged as to prevent unintentional connection between Sea and Bilges? yes.

Are all Sea Connections made with Valves or Cocks fitted direct to the Hull Plating? yes.

Are they placed so as to be easily seen and accessible? yes.

Are the Discharge Chests placed above the Deep Load Line? yes.

Are they fitted direct to the Hull Plating and easily accessible? yes.

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the outside? yes.



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## BOILERS.

Boilers made by  
 " at  
 Works No.  
 Date when Plan approved  
 Boiler Plates, Iron or Steel  
 Makers of Shell Plates  
 " Internal Plates  
 " Furnaces  
 " Stay Bars  
 " Rivets  
 Material tested by (B.C., B.T., etc.)  
 No. of Boilers  
 Single or Double-ended  
 No. of Furnaces, each Boiler  
 Type of Furnaces  
 Approved Working Pressure  
 Hydraulic Test Pressure  
 Date of Hydraulic Test  
 " when Safety Valves set  
 Pressure on Valves  
 Date of Steam Accumulation Test  
 Max. Pressure under Accumulation Test  
 System of Draught  
 Can Boilers be worked separately?  
 Greatest inside Diam. of Boilers  
 " Length "  
 Square Feet of Heating Surface, each Boiler  
 " Grate " "

Blair Co. Ltd.

Stockton

1780

steel.

Jno. Spencer Sons

do.

Jno. Brown Sheffield.

Jno. Spencer Sons.

J. Miller Co.

B.C.

two

single

four

Mouison

180 lbs.

360 lbs.

23-10-13

13-11-13

185 lbs.

13-11-13

190 lbs.

natural

yds.

17' - 3  $\frac{1}{8}$ 11' - 4  $\frac{31}{32}$ 3300  $\phi$ 73.25  $\phi$ 

## DONKEY BOILER.

Cudron Co.

Stockton

3213.

3-12-12

steel.

Jno. Spencer Sons.

do

do

do

do

B.C.

one

single

two

plain.

100 lbs.

200 lbs.

29-9-13.

13-11-13

103 lbs.

13-11-13

103 lbs.

natural

yds.

10' - 10  $\frac{7}{8}$ 

11' - 0

1240  $\phi$ 36  $\phi$



No. of Safety Valves, each Boiler

Diar. " " "

Area " " "

Are the Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

" Water " "

" Test Cocks,

" Salinometer Cocks, "

Are Water Gauge Pillars attached by Pipes to Steam and Water Spaces?

Are these Pipes connected to Boilers by Cocks or Valves?

Are Blow-off Cocks or Valves fitted on Boiler Shells?

No. of Strakes of Shell Plating in each Boiler

" Plates in each Strake

Thickness of Shell Plates by Rule

" " Approved

" " in Boilers

Are the Rivet Holes Punched or Drilled?

Are Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

" inside "

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

Diar. of Rivet Holes

Pitch "

Width of Overlap

Percentage of Strength in Longitudinal Seams

Same as s/s "Devon City"



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Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " "

Eff. Diar. of Stays by Rule

" " " Approved

" " " in Boilers

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom by Rule

" " " " " Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom by Rule

" " " " " Approved

" " " " " in Boilers

No. of Long Stays in Spaces between Furnaces

Eff. Diar. of Stays by Rule

" " " " Approved

" " " " in Boilers

Material of "

Thickness of Front Tube Plates by Rule

" " " " Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

Same as sps Devon City

Thickness of Doublings in Wide Spaces between Fireboxes

Thickness of Back End Plates by Rule

Approved " " "

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" " "

Thickness of Stay Tubes

" " "

External Diam. of Tubes

" " "

Thickness of Front End Plates by Rule

Approved " " "

" " " in Boilers

Smallest outside diam. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (front to back)

Thickness of " " " by Rule

Approved " " "

" " " in Boilers

Pitch of stay tubes in E.C. Tube

Eff. Diar. " " "

Approved " " "

" " " in Boilers





Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates by Rule

" " " Approved  
" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diam. of Tubes

Material " "

Thickness of Furnace Plates by Rule

" " " Approved  
" " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " " Tops, by Rule  
" " " " Approved  
" " " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Ext. Diam. " " " by Rule  
" " " " Approved  
" " " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule

*Same as sps "Steam City"*

Thickness of Combustion Chamber Sides by Rule

" " " " in Boilers

Pitch of screw stays in C.C. plates

Ext. Diam. " " " by Rule

" " " " Approved

" " " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule

" " " " Approved

" " " " in Boilers

Pitch of screw stays in C.C. plates

Ext. Diam. " " " by Rule

" " " " Approved

" " " " in Boilers

Material " "

Are all screw stays fitted with Nuts inside C.C.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each W.P. Chamber

" " " " " "

Height and Thickness of Girders

Material of Girders

No. of stays in each



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Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs by Rule

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside C.C.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre " "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Stay Tubes, each Boiler

" " Plain " "

Size of Lower Manholes

*Same as s/o Devon City*

# VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on

previous pages applicable to such Boilers.

Type of Boilers

Height of Boiler Crown above the grate

Are Boiler Crowns Flat or Dishd?

Internal Radius of Dishd Ends

Description of Seams in Boiler Crowns

Pitch of Rivet Heads

Height of Firebox Crown above the grate

Are Firebox Crowns Flat or Dishd?

External Radius of Dishd Crowns

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

No. of Screwed Stays in Firebox Side

Are they fitted with Nuts inside?

Description of Superheaters

Where situated

Which Boilers are connected to Superheaters?

Can Superheaters be built with internal or external?

No. of safety Valves on Superheaters

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## VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on previous Pages applicable to such Boilers:—

Type of Boilers

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Ends.

Description of Seams in Boiler Crowns

Diar. of Rivet Holes

Pitch

Width of Overlap

Height of Firebox Crowns above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns

No. of Crown Stays

Effective Diar.

Material

External Diar. of Firebox at Top

Bottom

Thickness of Plates

No. of Water Tubes

Int. Diar.

" "

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Eff. Diar.

Material

Are they fitted with Nuts inside?

Outside?

## SUPERHEATERS.

Description of Superheaters

Where situated

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on Superheaters.

Diar.

Area

Are " " fitted with Lasing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

## SKETCHES.

No. of Boilers	Material	Boiler Crown or Seams	Internal Diar.	Thickness	How are Joints secured?	Date of Hydraulic Test	Test Pressure
1	Welded	Seams	14"	1/2"	Flanged	30-10-13	400 lbs

## REFRIGERATORS.

No. of Machines	Description	Total Cubic Capacity of Refrigerated Space	Nature, Construction, Thickness, &c., of Insulation	Thermometer Tubes so arranged that Water cannot enter and freeze in the Tubes?	Are the Pipes, Piping, and Air Pipes in Insulated Space properly insulated?	Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?



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## MAIN STEAM PIPES.

No. of Lengths	1	1
Material	copper.	
Brazed, Welded, or Seamless	seamless.	
Internal Diam.	7 $\frac{1}{4}$ "	5 $\frac{1}{2}$ "
Thickness	5/16"	1/4"
How are Flanges Secured?	braked.	
Date of Hydraulic Test	30-10-13	
Test Pressure	400 lbs.	

## REFRIGERATORS.

No. of Machines	Makers
Description	

When any part of the Vessel is to be used for the Carriage of Refrigerated Cargo the following particulars should be stated:—

Total Cubic Capacity of Refrigerated Spaces  
Nature, Construction, Thickness, &c., of Insulation

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

Are all Bilge, Suction, Sounding, and Air Pipes in Insulated Spaces properly insulated?

Are Thermometer Tubes so arranged that Water cannot enter and freeze in the Tubes?

Are Sluice Valves fitted on any of the Bulkheads of Insulated Spaces?

Are these fitted with Brass Non-return Valves?

Are they always accessible?

Are the Bilges and Bilge Rose Boxes always accessible?

Are the Steam Suctions to Bilges fitted with Non-return Valves?

Is the Machine Room effectively separated from Insulated Spaces?

" " properly Ventilated and Drained?

No. of Steam Cylinders, each Machine

Diams.

" Compressors, "

Diam. of Crank Shafts

No. of Cranks

Give particulars of Pumps in connection with Refrigerating Plant, and state whether worked by Refrigerating Machines or independently

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Date of Test under Working Conditions

Fall of Temperature in Insulated Spaces

Time required to obtain this Result

Articles of Spare Gear for Refrigerating Plant carried on board



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Positions of Auxiliary Switch Boards, with No. of Switches on each

No. of Circuits	Position of Circuits	Particulars of these Circuits—	No. of Circuits to which Switches are provided on Main Switch Board	Main Switch Board	Position of Dynamos	Current Alternating or Continuous	Capacity	Makers of Dynamos	No. and Description of Dynamos	Installation Fitted by
-----------------	----------------------	--------------------------------	---	-------------------	---------------------	-----------------------------------	----------	-------------------	--------------------------------	------------------------

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. „ „ each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No.

S.W.G., Largest, No.

S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

„ „ Saloons, State Rooms, &c., „ ?

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) „ „ passing through Bunkers or Cargo Spaces

(3) „ „ Deck Beams or Bulkheads

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired?

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Are all Hull Connections for Single-Wire Systems made with screws of large Surface?

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Is the Installation supplied with a Voltmeter?

„ „ „ an Ampere Meter?

Date of Trial of complete Installation

Duration of Trial

DOCKKEY

*Ballan's  
Vertical  
Blair's  
single  
double  
8  
9  
10  
Bridge, bridge  
sea tank*



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## EVAPORATORS.

No. 1 Type *Blair's patent.* Tons per Day *20*  
 Makers *Blair Co.*  
 Working Pressure *10 lbs.* Test Pressure *50 lbs.* Date of Test *13-10-13*  
 Date of Test of Safety Valves under Steam *22-11-13*

## FEED WATER HEATERS.

No. 1 Type *suction.*  
 Makers *Blair Co.*  
 Working Pressure *180 lbs.* Test Pressure *360 lbs.* Date of Test

## DONKEY

No. of Donkeys *Feed.*  
 Type *Vertical*  
 Makers *Blair Co.*  
 Single or Duplex *single*  
 Double-Acting *double-acting.*  
 Diar. of Steam Cylinders *8"*  
 Pumps *4"*  
 Stroke of *8"*  
 Where do they pump from? *at water.*

Where do they discharge to?

*Boilers*

Capacity, Tons per Hour of Ballast Donkey

*100*

Diar. of Pipe required by Rule for

## FEED WATER FILTERS.

No. Type Size  
 Makers  
 Working Pressure Test Pressure Date of Test

## FORCED DRAUGHT FANS.

No. of Fans. Diar. Revs. per min.  
 How are Fans driven?

## PUMPS.

*Ballast-*  
*Vertical*  
*Blair Co.*  
*single*  
*double-acting*  
*11"*  
*9"*  
*10"*  
*Bilges, bilge direct.*  
*sea & tanks.*

*Tanks, deck, overhead.*

largest Ballast Tank

*5 1/2"*

Velocity of Water in Pipe

*413*



## SPARE GEAR.

No. of Top End Bolts	2	No. of Bot. End Bolts	2
" Main Bearing Bolts	2	" Coupling Bolts	1 set.
" Cylr. Cover Bolts Studs	✓	" Valve Chest Cover Bolts Studs	✓
" Feed Pump Valves	2 seats	" Bilge Pump Valves	2
" Safety Valve Springs	1	" Fire Bars	$\frac{1}{2}$ set
" Piston Rings	1 set for H.P. & M.P.	" Junk Ring Bolts Studs	✓
" Piston Rods	✓	" Connecting Rods	✓
" Valve Spindles	✓	" Air Pump "	✓
" Air Pump Valves	6	" " " Buckets	✓
" Crank Pin Bushes	✓	" Crosshead Bushes	✓
" Crank Shafts	✓	" Propeller Shafts	✓
" Propellers	1	" " Blades	✓
" Boiler Tubes	6	" Condenser Tubes	6

## OTHER ARTICLES OF SPARE GEAR:—

- 1 set feed donkey pump valves.  
 1 ballast  
 24 Taylor's ring (assorted sizes)  
 2 fire bars pattern.  
 6 Gauge glasses  
 1 set springs (L. P. piston)  
 6 iron bars (assorted)  
 3 iron plates (assorted thickness)  
 6 sheet tin, 2 sheets copper.  
 12 picker blades, 100 condenser ferrules  
 2 main feed check valve lids  
 2 donkey  
 12 piston bolts nuts.  
 12 assorted studs for gland covers.

## GENERAL CONSTRUCTION.

Have all the Requirements under Sections 31 and 32 of the Rules been complied with? *yes.*

If not, give details of the points of difference, and state when these were sanctioned by the Chief Surveyor.

Are the Steam Pumping Arrangements in accordance with the approved Plan? *yes.*

If not, state in what respects they differ and when such differences were sanctioned by the Chief

Surveyor

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy? *yes.*

Is the Workmanship throughout thoroughly satisfactory? *yes.*

The above correctly describes the Machinery of the S.S.

as ascertained by me from personal examination.

*yes.*  
"Galls City"

*J.D. Stephenson*  
Engineer Surveyor to the British Corporation for the  
Survey and Registry of Shipping.



Fees—

GENERAL CONSTRUCTION

## MAIN BOILERS.

H.S.

£6600

Sq. ft.

21 : 0 : 0

G.S.

## DONKEY BOILERS.

H.S.

Sq. ft.

3 : 13 : 6

G.S.

## ENGINES.

L.P.C.

106.9

Cub. ft.

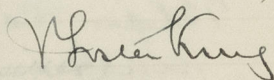
21 : 0 : 0

Expenses

Total

£ 145 : 13 : 6

It is submitted that this Report be approved,



Chief Surveyor.

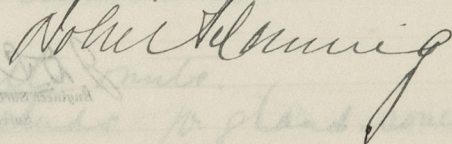
Approved by the Committee:

for the class of M.B.B.\*  
on the 14<sup>th</sup> January 1914.

Fees applied for

22<sup>nd</sup> Nov 1913

Fees paid

25<sup>th</sup> Nov 1913


Secretary.



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Page

## MAN BODIES

H.S. 6600 21 0 0

G.S.

## DONKEY BODIES

H.S. 3 13 6

G.S.

## BODIES

H.S. 6600 21 0 0

G.S.

Working for the class of 1913

Expenses

Total 143 16 6

It is submitted that this Report be approved.

W. H. King

Chairman

Approved by the Committee for the class of 1913  
on the 14th January 1914.

Date accepted for

22nd Nov 1913

Date paid

25th Nov 1913

W. H. King

Secretary



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