

No. 1111

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1033 No. in Register Book 1612

ACADIAN

" GLENMAVIS "

Makers of Engines Richardsons Westgarth & Co.

Works No. 2202

Makers of Main Boilers Richardsons Westgarth & Co.

Works No. 2202

Makers of Donkey Boiler

Works No.

MACHINERY.



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Received at Head Office

22 AUG 1913

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the "Glenmaois"

Port of Registry

Newcastle

Registered Owners

James Playfair & J. Caruthers.

Surveyor's District

Wear & Lees.

Date of Completion of Engines

6-13

" " " " Main Boilers

6-13

" " " " Donkey

Trial Run at

Howle Lock Fyfe.

Date 4-6-13.

First Visit

11-4-12

Last Visit

4-6-13.

Total Number of Visits

30

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ENGINES.

Made by *Richardson Westgarth Co.*
 " at *Middlebrough* Works No. *2202*
 Description *Triplo. Schamion S.P. 3cyls.*
 No. of Cylinders, each Engine *3* Diars. *16" - 26" - 44"* Stroke *30"*
 Cub. feet in each L.P. Cylr. *26.4* Revols. per Min. *107* L.H.P. *Report No. 11119*
 Pressure in I.P. Receiver at full Power *55 Lbs.* 2nd I.P. L.P. *6 1/2 Lbs.*
 Thickness of Metal in H.P. Cylr. *1"* I.P. *1 3/16"* " " *1 3/16"*
 " " " " Liner *1 1/8"* " " " " " *1 1/8"*
 " " " " Valve Chest *1 1/8"* " " " " " *1 1/8"*
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *Yes*
 " " " each Receiver? *Yes*
 Number of ~~Bolt~~ Studs in H.P. Cylr. Cover *16* I.P. *16* 2nd I.P. L.P. *20*
 Eff. Diar. " " " *.942* " *.942* " " *.942*
 Pitch " " " *4.22* " *6* " " *7.62*
 Type of H.P. Valves (Piston or slide) *Piston* " *slide* " " *slide*
 " Valve Gear *Stephenson Link.*
 Diameter of Piston Rods (plain part) *4 1/4"* Bottom of Thread *3.25"*
 Makers " *R'dson's Westgarth's Shop* Material *Steel*
 Diameter of Connecting Rods (smallest part) *4 3/8"* Material *Steel*
 Makers " *R'dson's Westgarth's Shop*
 Diar. of Crosshead Gudgeons *4 3/4"* Length of Bearing *6 3/4"* Material *Iron*
 No. of Top End Bolts (each Rod) *2* Effective Diar. *2.312"* Material *Steel*
 " Bot. " " *2* " *2.312"* " *Steel*
 " Main Bearings *6* Lengths *8 1/2"*
 " Bolts in each *2* Effective Diar. *2.062"* Material *Steel*

No. of Holding Down Bolts, each Engine *62* No. of Metal Chocks *62*
 Eff. Diar. " " " *1.062* Average Pitch *15"*
 Are the Engines bolted directly to the Tank Top? *Yes*
 Are the Bolts tapped through the Tank Top and fitted with Nuts inside *Yes*
 Date of Test of Tank by Water Pressure with Holding Down Bolts in place *2.11.1902*

27" Vac. SKETCHES.
SPEED. 9.25 KNOTS



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SKETCHES.

22
 Crank Shaft

B. C.
 No 1111
 12-2-13
 W. D. C.

" Thrust tail shaft

B. C.
 No 1111
 3-4-13
 J. D. S.

SHAFTING.

Are Crank Shafts Built? *ye.* No. of Lengths in each 3 Angle of Cranks 120°
 Diar. of Crank Shafts by Rule Actual 8 1/2" Diar. in Way of Webs 8 3/4"
 Makers of " *Gutehoffnungschutte* Material *J. Steel.*
 Diar. of Crank Pins 8 3/4" Diar. in Way of Web 8 3/4"
 Makers of " *Gutehoffnungschutte* Material *J. Steel.*
 Width across Crank Webs at Centre of Shaft 16" Thickness 5 19/32"
 " " " " Crank Pins 16" 5 32"
 " " " " Narrowest part 12 1/2" 5 19/32"
 Makers of Crank Webs *Gutehoffnungschutte* Material *J. Steel.*
 Diar. or Breadth of Keys in Crank Webs 2" Length 4 3/4"
 " of Dowel Pins in Crank Pins 1 1/2" Length 4 3/4" *Spaced or Plain plain*
 No. of Bolts in each Coupling 6 Diar. at Mid Length 2 1/8" Diar. of Pitch Circle 13"
 Material of Coupling Bolts *Steel*
 Crank Shafts Finished by *Richardson Westgarth.*
 Greatest Distance from edge of Main Bearing to Crank Web 1/4"
 Description of Thrust Blocks *Horseshoe type.*
 Number " " Rings 4
 Diar. of Thrust Shafts by Rule Actual (at bot. of Collars) 8 1/2" Over Collars 16"
 " " at Forward Coupling 8 1/2" After Coupling 8 1/2"
 No. of Thrust Collars 5 Thickness 1 3/4" Distance apart 3 1/2"
 Thrust Shafts Forged by *Gutehoffnungschutte* Material *J. S.*
 " Finished by *Richardson Westgarth & Co.*
 Diar. of Intermediate Shafting by Rule Actual
 No. of Lengths, each Engine ✓ No. of Tunnel Bearings ✓
 Diar. of Bearings ✓ Length ✓ Distance apart ✓

TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of L.P. Turbines

No. of Astern

How arranged

Revs. per Min.

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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BOILERS.

Boilers made by *Richardson Westgarth Co.*
 at *Middlesbrough*
 Works No. *2202*
 Date when Plan approved *24-10-12*
 Boiler Plates, Iron or Steel *steel.*
 Makers of Shell Plates *Jno. Chence Lons.*
 Internal Plates *do*
 Furnaces *J. Marshall Co.*
 Stay Bars *Jno. Chence Lons.*
 Rivets
 Material tested by (B.C., B.T., etc.) *B.C. + B.T.*
 No. of Boilers *two.*
 Single or Double-ended *single*
 No. of Furnaces, each Boiler *two.*
 Type of Furnaces *Blighton.*
 Approved Working Pressure *180 lbs.*
 Hydraulic Test Pressure *360 lbs.*
 Date of Hydraulic Test
 when Safety Valves set *30.5.13.*
 Pressure on Valves *180 Lbs.*
 Date of Steam Accumulation Test *r*
 Max. Pressure under Accumulation Test *r*
 System of Draught *natural.*
 Can Boilers be worked separately? *yd.*
 Greatest inside Diam. of Boilers *12'-4 ⁷/₈"*
 Length *10'-5 ³/₃₂"*
 Square Feet of Heating Surface, each Boiler *1475 ¹/₂*
 Grate *39 ¹/₂*



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No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

No. of Rows of Rivets in End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space by Rule

Approved

in Boilers

Pitch of Steam Space Stays

Eff. Diar. by Rule

Approved

in Boilers

Material of

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Width Doubling Strips

Thickness of Middle Back End Plate by Rule

Approved

in Boilers

two ✓
 ✓
 ✓
 two ✓
 two. ✓
 back machine, front hand. ✓
 1 1/4" ✓
 3 3/8" ✓
 6" ✓
 12" x 16" ✓
 2'-5 1/2" x 2'-11" x 1 1/8" ✓
 17.88" / 16 ✓
 1 1/8" ✓
 1 1/8" ✓
 18 1/4" x 18" ✓
 2.575" ✓
 3 1/4" ✓
 3 1/4" ✓
 steel. ✓
 double - nut washers. ✓
 9 3/4" x 3/4" ✓
 ✓
 ✓
 ✓
 ✓
 ✓

Thickness of Doubling in
 Pitch of stays
 Eff. Diar. of stays by rule
 Approved
 in Boilers
 Material
 Are stays fitted with X or washers?
 Thickness of back end plates at bottom of tank
 Approved
 in Boilers
 Pitch of stays at 75° to space between fireboxes
 Thickness of Doubling in
 Thickness of front end plates at bottom of tank
 Approved
 in Boilers
 No. of long stays in space between fireboxes
 Eff. Diar. of stays by rule
 Approved
 in Boilers
 Material
 Thickness of front tube stays by rule
 Approved
 in Boilers
 Thickness of stays between fireboxes
 Approved
 in Boilers
 Material
 Thickness of front tube stays by rule
 Approved
 in Boilers
 Thickness of stays between fireboxes
 Approved
 in Boilers
 Material



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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

E.E. Diam. by Rule

Approved

in Boilers

Material

Thickness of Combustion Chamber Sides by Rule

In marginal at front end only.

$$\frac{13.12}{16}$$

$$\frac{27}{32}$$

$$\frac{27}{32}$$

$$13\frac{1}{2} \times 9$$

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

$$7\frac{7}{16}, \frac{3}{8} \times \frac{1}{32}$$

$$8 \text{ W.L.}$$

$$3\frac{1}{4}$$

lapwelded iron.

$$\frac{8.47}{16}$$

$$\frac{9}{16}$$

$$\frac{9}{16}$$

$$\frac{9}{16}$$

$$3 - 3\frac{3}{8}$$

$$7 - 0$$

$$2 - 3\frac{3}{16}$$

$$\frac{11.24}{16}$$

$$\frac{23}{32}$$

$$\frac{23}{32}$$

$$10 \times 9$$

$$1.539$$

$$1\frac{3}{4}$$

$$1\frac{3}{4}$$

$$1\frac{3}{4}$$

$$1\frac{3}{4}$$

steel

$$\frac{10.7}{16}$$



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Thickness of Combustion Chamber Sides Approved

1 1/16" " " " " " "

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

$9 \frac{3}{8} \times 9$

Eff. Diar. " " by Rule

1.507"

" " " Approved

$1 \frac{3}{4}$ "

" " " in Boilers

$1 \frac{3}{4}$ "

Material " "

steel.

Thickness of Combustion Chamber Backs by Rule

$\frac{10.3}{1.6}$ "

" " " Approved

$\frac{16}{16}$ "

" " " in Boilers

$\frac{16}{16}$ "

Pitch of Screwed Stays in C.C. Backs

9×9

Eff. Diar. " " by Rule

1.475"

" " " Approved

Corner 2" margin $1 \frac{7}{8}$ " other $1 \frac{3}{4}$ "

" " " in Boilers

2" $1 \frac{7}{8}$ " " $1 \frac{3}{4}$ "

Material " " " "

steel.

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

yes.

Thickness of Combustion Chamber Bottoms

$\frac{2.9}{32}$ "

No. of Girders over each Wing Chamber

5

" " " Centre "

$8 \frac{1}{2} \times 1 \frac{5}{8}$

Depth and Thickness of Girders

steel.

Material of Girders

two.

No. of Stays in each

No. of Stay Tubes, each Boiler

58

" " Plain " " "

144

Size of Lower Manholes

16×12

VERTICAL-DONKEY BOILERS

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

questions from applicable to such boilers.

Type of boiler

Height of boiler (Gross above the grate)

Are boiler (Gross flat or dished)

Internal radius of dished back

Description of seams in boiler (Gross)

Dia. of rivet hole

Height of flange (Gross above the grate)

Are flanges (Gross flat or dished)

External radius of dished (Gross)

No. of Crown Stays

Internal Dia. of flange at top

No. of Water Tubes

Material of Water Tubes

No. of screwed stays in flange sides

Are they fitted with Nuts inside

SUPERHEATERS

Description of superheaters

Wires attached

Which boilers are connected to 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

Thickness of Plates

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 Easing Gear ?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

SKETCHES.

No. of Machines	Description	Year of Invention	Date of Hydraulic Test	Test Pressure
1	Coffin	20	10.2.10.22.23	200 lbs./sq.
2	2 D.	20		
3	3 D.	20		
4	4 D.	20		
5	5 D.	20		

REFRIGERATORS

No. of Machines	Description	Year of Invention	Date of Hydraulic Test	Test Pressure
1				
2				
3				
4				
5				



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MAIN STEAM PIPES.

No. of Lengths	1	2.	
Material	Copper	Copper	
Brazed, Welded, or Seamless	S.D.	S.D.	
Internal Diar.	3½"	3½	
Thickness	6.W.G.	6.W.G.	
How are Flanges Secured?	Brazed	Brazed	
Date of Hydraulic Test	19.5.13.	22.5.13.	
Test Pressure	360lbs./sq"		

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

Diars.

" Compressors, "

Diars. 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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SKETCHES.

MAINTENANCE PIPES
 project Ventilated and Drained
 No. of steam Cylinders, each Machine
 Compressors
 Dist. of Fresh Water
 Five particulars of Pumps in connection with Refrigerating Machine or independent
 Refrigerating Machine or independent
 Date of Hydraulic Test
 13.5.13, 23.5.13
 360 lbs / 0'

REFRIGERATORS

No. of Machines
 Name
 The prime and other location of the compressor
 The location of the condenser
 The location of the evaporator
 The location of the expansion valve
 The location of the receiver
 The location of the oil separator
 The location of the sight glass
 The location of the pressure gauge
 The location of the safety valve
 The location of the drain valve
 The location of the air vent
 The location of the service valve
 The location of the stop valve
 The location of the isolation valve
 The location of the check valve
 The location of the non-return valve
 The location of the float valve
 The location of the differential pressure switch
 The location of the high pressure switch
 The location of the low pressure switch
 The location of the differential pressure switch
 The location of the high pressure switch
 The location of the low pressure switch

ELECTRIC LIGHTING.

Installation Fitted by *Sunderland Forge*
 No. and Description of Dynamoes *One compound wound multipolar*
 Makers of Dynamoes *Sunderland Forge*
 Capacity " *60* Amperes, at *100* Volts, *400* Revols. per Min.
 Current Alternating or Continuous *Continuous*
 Position of Dynamoes *Engine room Starboard*
 " Main Switch Board " " *near dynamo.*
 No. of Circuits to which Switches are provided on Main Switch Board *4 wires*

Particulars of these Circuits:—

No. of Circuit.	Name of Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
1	<i>Aft</i>	<i>22</i>	<i>16</i>	<i>13.2</i>	<i>7.22</i>	<i>3110</i>	<i>100%</i>	<i>600 meg.</i>
2	<i>Navigation</i>	<i>12</i>	<i>16</i>	<i>7.2</i>	<i>1.18</i>	<i>3980</i>		
3	<i>Forward</i>	<i>22</i>	<i>16</i>	<i>13.2</i>	<i>7.22</i>	<i>3110</i>		
4	<i>Cargo</i>	<i>12</i>	<i>16</i>	<i>7.2</i>	<i>1.16</i>	<i>2236</i>		
5	<i>Engine Room</i>	<i>12</i>	<i>16</i>	<i>7.2</i>	<i>1.18</i>	<i>3980</i>		

Total No. of Lights *80* No. of Motors driving Fans, &c. *1* No. of Heaters *1*

Current required for Motors and Heaters *1*

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

One in Chartroom.

*One in engine room
One in boiler room
One in main switch board
One in chart room
One in engine room
One in boiler room
One in main switch board
One in chart room*

No. of Circuits to which switches are provided on Main Switch Board	Main switch board	Location of Dynamometer	Current Measuring or Controlling	Capacity	Make and Description of Dynamometer	Installation fitted to
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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?
<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>18</i>		<i>16</i>		<i>Armoured with galvanized wire lead covered.</i>

What special protection is provided in the following cases?—

- (1) Conductors exposed to Heat or Damp *lead covered & armoured*
- (2) " " passing through Bunkers or Cargo Spaces *Run in screwed iron tubes.*
- (3) " " Deck Beams or Bulkheads *Wales brashed with fibro asplana filler.*

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired? *no joints*

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? *yes.*

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

Has the Insulation Resistance over the whole system been tested? *yes.*

What does the Resistance amount to? *1/8 MEG* Ohms.

Is the Installation supplied with a Voltmeter? *yes.*

" " " an Ampere Meter? *no*

Date of Trial of complete Installation _____ Duration of Trial *6 hours*

Donkey

*Boiler room
Engine room
Chart room
Main switch board
Bunkers
Cargo spaces
Deck beams
Bulkheads
Compass
Dynamo
Motor
Cables
Screws
Soldered
Insulated
Efficiency
Accessibility
Hull connections
Double-wire system
Standard sizes
Non-inflammable
Easily accessible
Galvanized wire
Lead covered
Heat or damp
Screwed iron tubes
Wales brashed
Fibro asplana filler*



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EVAPORATORS.

No. *One* Type *Chamberlain* Tons per Day
 Makers
 Working Pressure Test Pressure Date of Test
 Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No. Type
 Makers
 Working Pressure Test Pressure Date of Test

DONKEY

No. of Donkeys	<i>Feed.</i>	<i>Sanitary.</i>
Type	<i>Horizontal</i>	<i>Horizontal</i>
Makers	<i>Tangle.</i>	
Single or Duplex	<i>Duplex.</i>	<i>Duplex</i>
" Double-Acting	<i>Double-acting</i>	<i>Double-acting</i>
Diar. of Steam Cylinders	<i>6"</i>	<i>4 2/3"</i>
" Pumps	<i>5"</i>	<i>2 3/4"</i>
Stroke of "	<i>6"</i>	<i>4"</i>
Where do they pump from?	<i>Hotwell, tanks Sea.</i>	<i>sea.</i>
Where do they discharge to?	<i>Boilers Deck Overboard</i>	<i>Sanitary main.</i>
Capacity, Tons per Hour of Ballast Donkey		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. *8* Diar. Revols. per min.
 How are Fans driven?

PUMPS.

<i>Ballast</i>	
<i>Vertical</i>	
<i>H. W. also Long.</i>	
<i>Duplex</i>	
<i>Double-acting</i>	
<i>9"</i>	
<i>11"</i>	
<i>10"</i>	
<i>sea, bilges & Tanks.</i>	
<i>Overboard Tanks / Condensers</i>	

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Velocity of Water in Pipe

SPARE GEAR.

No. of Top End Bolts	2 + nuts	No. of Bot. End Bolts	2 + nuts
" Main Bearing Bolts	2 + nuts	" Coupling Bolts	1 set of 6
" Cylr. Cover Bolts Studs	Assorted	" Valve Chest Cover Bolts Studs	✓
" Feed Pump Valves	1 set	" Bilge Pump Valves	1 set
" Safety Valve Springs	2	" Fire Bars	1/2 set + side bars
" Piston Rings	1 set	" Junk Ring Bolts Studs	3
" Piston Rods	✓	" Connecting Rods	✓
" Valve Spindles	✓	" Air Pump "	✓
" Air Pump Valves	1 set	" " " Buckets	✓
" Crank Pin Bushes	✓	" Crosshead Bushes	✓
" Crank Shafts	✓	" Propeller Shafts	✓
" Propellers	✓	" " Blades	2
" Boiler Tubes	5	" Condenser Tubes	6

OTHER ARTICLES OF SPARE GEAR:—

1 set. Bilge pump valves
 2 Piston rod bolts + nuts
 1/2 set pickaxe

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

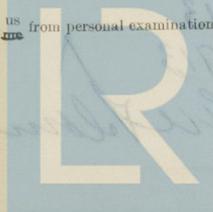
Surveyor

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 ^{us} _{me} from personal examination



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

Fees—

GENERAL CONSTRUCTION

MAIN BOILERS.

H.S. 2950 Sq. ft. 14 : 0 : 0

G.S.

DONKEY BOILERS.

H.S. NONE Sq. ft.

G.S.

ENGINES.

L.P.C. 264 Cub. ft. 8 : 0 : 0

Testing, &c.

Expenses

Total ... £ 22 : 0 : 0

It is submitted that this Report be approved,

Phose King
Chief Surveyor.

Approved by the Committee,

for the class of M.C.B.S.
on the 24th December 1913.

Fees applied for

3rd June 1913

Fees paid

2nd June 1913

Hollie Downing
Secretary.



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Lloyd's Register
Foundation

THE UNIVERSITY OF CHICAGO

NAME

2000 11 0 0

ROBERT DILLON

NONE

NAME

264 8 0 0

THE UNIVERSITY OF CHICAGO

NAME

22 0 0

It is submitted that this Report be approved.

John King

Approved by the Committee

for the class of M.A.s
on the 24th December 1913.

Date signed for

13th June 1913

Date paid

14th June 1913

Robert Dillon



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