

No. 1111

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1033 No. in Register Book 1612

ACADIAN

" " S.S. GLENMAVIS

Makers of Engines Richardson Westgarth & Co.

Works No. 2202

Makers of Main Boilers Richardson Westgarth & Co.

Works No. 2202

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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002362-002373-0056

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1033* No. in Register Book *1612*

Received at Head Office

22 AUG 1913

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

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

Knill's Lock Light

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 *Tuple. Schamion S.P. 3 crks.*
 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.
 Pressure in I.P. Receiver at full Power *55 Lbs.* 2nd I.P. *✓* L.P. *6½ Lbs.*
 Thickness of Metal in H.P. Cylr. *1"* I.P. *1 3/16"* " *✓* " *1 3/16"*
 " " " " Liner *1 1/8"* " *✓* " *✓* " *✓*
 " " " " Valve Chest *1 1/8"* " *1 1/16"* " *✓* " *✓*
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *yes*
 " " " each Receiver? *yes*
 Number of ~~Bolts~~ 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'dsons W'garth & Hoal* Material *2 steel.*
 Diameter of Connecting Rods (smallest part) *4 3/8"* Material *2 steel*
 Makers " *R'dsons W'garth & Hoal*
 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

27" Vac.

SKETCHES.

SPEED. 2.25 KNOTS

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SKETCHES.

Crank Shaft
Mark on 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 $8\frac{1}{2}"$ Diar. in Way of Webs $8\frac{3}{4}"$
 Makers of *Gutehoffnungschutte* Material *I. Steel.*
 Diar. of Crank Pins $8\frac{3}{4}"$ Diar. in Way of Web $8\frac{3}{4}"$
 Makers of *Gutehoffnungschutte* Material *I. Steel.*
 Width across Crank Webs at Centre of Shaft 16 Thickness $5\frac{19}{32}"$
 " " " " Crank Pins 16 " $5\frac{19}{32}"$
 " " " " Narrowest part $12\frac{1}{2}"$ " $5\frac{19}{32}"$
 Makers of Crank Webs *Gutehoffnungschutte* Material *I. Steel.*
 Diar. or Breadth of Keys in Crank Webs 2 Length $4\frac{3}{4}"$
 " of Dowel Pins in Crank Pins $1\frac{1}{2}"$ Length $4\frac{3}{4}"$ *Screwed or Plain* *plain*
 No. of Bolts in each Coupling 6 Diar. at Mid Length $2\frac{1}{8}"$ 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 $\frac{1}{4}"$
 Description of Thrust Blocks *Horseshoe type.*
 Number " " Rings 4

Diar. of Thrust Shafts by Rule Actual (at bot. of Collars) $8\frac{1}{2}"$ Over Collars 16"
 " " at Forward Coupling $8\frac{1}{2}"$ After Coupling $8\frac{1}{2}"$
 No. of Thrust Collars 5 Thickness $1\frac{3}{4}"$ Distance apart $3\frac{1}{2}"$
 Thrust Shafts Forged by *Gutehoffnungschutte* Material *I. S.*
 " Finished by *Richardson Westgarth & Co.*

Diar. of Intermediate Shafting by Rule

No. of Lengths, each Engine

Diar. of Bearings

Length

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No. of Bolts, each Coupling ✓ Diam. at Mid Length ✓ Diam. of Pitch Circle ✓

Intermediate Shafts Forged by ✓ Material ✓

" " Finished by ✓

Diam. of Propeller Shafts by Rule Actual $9\frac{3}{8}$ " At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners? *yes*

Diam. over Liners $10\frac{7}{8}$ " Length of After Bearings $3'-3"$

Of what Material are the After Bearings composed? *Lignum Vitae.*

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing $7'-9"$

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 *Hatchell & Co. Ltd.* Material *S.S.*

" " Finished by *Richardson Westgarth & Co.*

No. of Propellers *1* Diam. $12'-0"$ Pitch $11'-3"$

" Blades, each Propeller *4* Fitted or Solid *Fitted*

Material of Blades *Cast Iron* Boss *Cast iron.*

Surface, each Propeller *56 sq* Diam. of Propeller

Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth *802.* Rule Diam. of Crank Shaft =

SKETCHES.



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

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

Are the Discharge Chests placed above the Deep Load Line?

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

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

Richardson Westgarth & Co.
Middlesbrough

at

Works No.

2202

Date when Plan approved

24-10-12

Boiler Plates, Iron or Steel

steel.

Makers of Shell Plates

Jno. Chence & Sons.

Internal Plates

do

Furnaces

J. Marshall & Co.

Stay Bars

Jno. Chence & Sons.

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

Brighton.

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

✓

Max. Pressure under Accumulation Test

✓

System of Draught

natural.

Can Boilers be worked separately?

yes.

Greatest inside Diam. of Boilers

12' - 4 $\frac{7}{8}$ "

Length

10' - 5 $\frac{3}{32}$ "

Square Feet of Heating Surface, each Boiler

1475 $\frac{1}{2}$

Grate

39 $\frac{1}{2}$

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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

two.

yes.

two

1

2

1

no

clocks.

one.

two.

 $\frac{16.31}{16}$ $1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$

drilled.

steel.

butt.

yes.

 $1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$

machine.

treble.

 $1\frac{3}{16}$ $8\frac{3}{8}$

9

85.8%

No. of Rows of Rivets in Centre of Longitudinal Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

No. of Rows of Rivets in End of Longitudinal Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

Diar. of Rivet Holes

Thickness of Shell Plates by Rule

Thickness of End Plates in Steam Space by Rule

Approved

in Boilers

Thickness of Steam Space Straps

Approved

Approved

in Boilers

Thickness of

Are they Single, Double, or Treble Riveted?

Diar. and Thickness of End Plates in Steam Space by Rule

Approved

Approved

Approved

Approved

Approved

Approved



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No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

Width of Overlap

No. of Rows of Rivets in End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. 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. Diam. " " " by Rule

" " " " " Approved

" " " " " in Boilers

Material of " " "

How are Stays Secured?

Diam. and Thickness of Loose Washers on End Plates

" " " " " Riveted " " "

Width " " " Doubling Strips " " "

Thickness of Middle Back End Plate by Rule

" " " " " Approved

" " " " " in Boilers

Thickness of Doubling in Wide Space between End Plates

Pitch of Stays at

Eff. Diam. of Stays by Rule

Approved " " "

" " " in Boilers

Material

Are stays fitted with X-rivets?

Thickness of back end plate at bottom by Rule

Approved " " "

" " " in Boilers

Pitch of stays at wide space between End Plates

Thickness of Doubling in

Thickness of front end plate at bottom by Rule

Approved " " "

" " " in Boilers

No. of long stays in space between End Plates

Eff. Diam. of Stays by Rule

Approved " " "

" " " in Boilers

Material

Thickness of front End Plate by Rule

Approved " " "

" " " in Boilers

Pitch of stays at wide space between End Plates

Thickness of Doubling in

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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 " " "

$$14 \frac{1}{2}'' \times 9''$$

$$1 \frac{7}{8}''$$

$$1 \frac{7}{8}''$$

$$\text{steel.}$$

$$\text{ybo.}$$

$$13.02''$$

$$29 \frac{1}{16}''$$

$$32$$

$$29 \frac{1}{32}''$$

$$14 \frac{1}{4}'' \times 13 \frac{1}{2}''$$

$$29 \frac{1}{32}''$$

$$29 \frac{1}{32}''$$

$$3$$

$$1.09''$$

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

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

$$\text{steel.}$$

$$13.89''$$

$$29 \frac{1}{16}''$$

$$32$$

$$29 \frac{1}{32}''$$

$$14 \frac{1}{4}'' \times 9''$$

$$7 \frac{1}{16}'' \times 3 \frac{3}{8}''$$

Handwritten notes and calculations on the right page, including a large 'R' logo and the text '© 2020 Lloyd's Register Foundation'.

$$13.81$$

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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

Ext. Diam. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule

Marginal at front end only.

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

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

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

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

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

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

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

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

lapwelded iron.

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

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

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

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

$$7 - 0$$

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

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

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

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

$$10 \times 9$$

$$1.539$$

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

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

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

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

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

Thickness of Combustion Chamber Sides by Rule

" " " in Boilers

Pitch of screw stays in C.C. sides

Ext. diam. " " by Rule

" " " Approved

" " " in Boilers

Material

Thickness of Combustion Chamber Heads by Rule

" " " Approved

" " " in Boilers

Pitch of screw stays in C.C. Heads

Ext. Diam. " " by Rule

" " " Approved

" " " in Boilers

Material

Ext. all screw stays fitted with nuts inside C.C.

Thickness of Combustion Chamber Bottoms

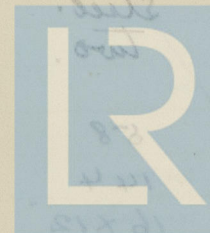
No. of stays over each W.G. Chamber

" " " Centre

Depth and Thickness of Stays

Material of Stays

No. of stays in each W.G. Chamber



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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

$$\frac{1}{16}$$

$$\frac{1}{16}$$

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

$$1.507$$

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

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

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

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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 boiler

Height of Boiler Crown above the Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Boilers

Description of seams in Boiler Crowns

Pitch of Rivet Hole

Height of Rivet Crown above the Grate

Are Rivet Crowns Flat or Dished?

External Radius of Dished Crowns

No. of Crown Stays

Internal Dia. of Rivet at Top

No. of Water Tubes

Material of Water Tubes

No. of Stayed stays in Rivetted sides

Are they fitted with Nuts inside?

SUPERHEATERS

Description of superheaters

When dished

Which Boilers are connected to superheaters?

Can superheaters be fitted with Nuts inside?

No. of safety Valves on superheaters



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Type of Boilers

Are Boiler Crowns Flat or Dished ?

Thickness of Plates

Diar. of Rivet Holes

Pitch

Width of Overlap

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 ?

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.

260 lbs. / 0.	10-2-19 22-2-19	Braised, Baked	6 Wg. 6 Wg.	3 1/2	3 1/2	2 D.	2 D.	Coffee	5.
Test 1/2 ounce	Date of Hydrostatic Test	How was change controlled?	Temperature	Internal Pressure	Pressure of Water or Steam	History	No. of Loads	Weight	Material

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MAIN STEAM PIPES.

No. of Lengths	1	2.
Material	Copper	Copper
Brazed, Welded, or Seamless	S.D.	S.D.
Internal Diam.	3 1/2"	3 1/2"
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	360 lbs./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

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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SKETCHES

ELECTRIC LIGHTING.

Installation Fitted by

Sunderland Forge.

No. and Description of Dynamos

One compound wound multipolar.

Makers of Dynamos

Sunderland Forge

Capacity " 60

Amperes, at 100 Volts, 400 Revols. per Min.

Current Alternating or Continuous

Continuous

Position of Dynamos

Engine room started.

.. Main Switch Board

" " " near dynamo.

No. of Circuits to which Switches are provided on Main Switch Board

Five

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	Aft	22	16	13.2	7.22	3110	100%	600 meg.
2	Navigation	12	16	7.2	1.18	3980		
3	Forward	22	16	13.2	7.22	3110		
4	Cargo	12	16	7.2	1.16	2236		
5	Engine Room	12	16	7.2	1.18	3980		

Total No. of Lights

80. No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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

One in Chartroom.

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. 18 S.W.G., Largest, No. 16 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?—
<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>	<i>yes.</i>		<i>Armoured with galvanized wire lead covered.</i>		
(1) Conductors exposed to Heat or Damp	(2) " passing through Bunkers or Cargo Spaces	(3) " Deck Beams or Bulkheads										

lead covered & armoured

Run in screwed iron tubes.

Wales brashed with fibre asbestos 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?

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

6 hours

KEY



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EVAPORATORS.

No.	Type	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	Feed.	Sanitary.
Type	Horizontal	Horizontal
Makers	Langye.	
Single or Duplex	Duplex.	Duplex
" Double-Acting	Double-acting	Double-acting
Diar. of Steam Cylinders	6"	4 2/3"
" Pumps	5"	2 3/4"
Stroke of "	6"	4"
Where do they pump from?	Hotwell, tanks Sea.	Sea.
Where do they discharge to?	Boilers Deck Overboard	Sanitary main.

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.	Diar.	Revol. per min.
How are Fans driven?		

PUMPS.

Ballast
Vertical
H. W. along Line.
Duplex
Double-acting
9"
11"
10"
Sea, bilges & Tanks.

Overboard
Tanks / Condensers

largest Ballast Tank

Velocity of Water in Pipe

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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 - 1 side bare
" 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 pinbar

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.*

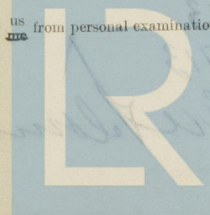
If not, state in what respects they differ and when such differences were sanctioned by the Chief Surveyor

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* from personal examination



Glenmavis

J. D. Stephenson
W. W. Bennett

Engineer Surveyor to the British Corporation for the Survey and Registry of Shipping.

Fees—

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.

26 H

Cub. ft.

8 : 0 : 0

Testing, &c.

Expenses

Total

£ 22 : 0 : 0

It is submitted that this Report be approved,

Phineas King
Chief Surveyor.

Approved by the Committee,

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

Fees applied for

3rd June 1913

Fees paid

14th June 1913

Hollis Manning
Secretary.



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ROLL QUARTERLY JANUARY

Roll Rollers

Roll 2400 Roll 11 0 0

Roll 0 0 0

Roller Rollers

Roll NONE Roll 0 0

Roll 0 0 0

Roller

Roll 26 11 Roll 8 0 0

Roll 0 0 0

Roll 0 0 0

Roll 2 0 0

It is submitted that this Report be approved,

John King
Chairman

Approved by the Committee

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

Roll 0 0 0

3rd June 1913

Roll 0 0 0

4th June 1913

John King



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