

No 2135

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. *1958* No. in Register Book *3287*

S.S. "*CITY OF KINGSTON*"

Makers of Engines *Richardsons Westgait & Co Ltd*

Works No. *2651*

Makers of Main Boilers *Richardsons Westgait & Co Ltd*

Works No. *2651*

Makers of Donkey Boiler .....

Works No. ....

MACHINERY



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No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. .... No. in Register Book

Received at Head Office

*24<sup>th</sup> June 1920*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the <sup>Single Triple</sup> ~~Twin Quadruple~~ Screw Steamer

*City of Kingston*

Official No.

Port of Registry

Registered Owners

*Steamship Co. Montreal.*

Engines Built by

*Richardsons Westgarth & Co. Ltd.*

at

*Hartlepool.*

Main Boilers Built by

*Richardsons Westgarth & Co. Ltd.*

at

*Hartlepool.*

Donkey .. ..

at

Date of Completion

*4-26*

First Visit

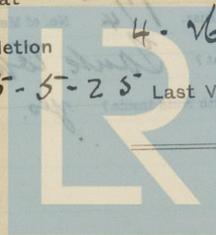
*15-5-25*

Last Visit

*13-4-26*

Total Visits

*40*



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## RECIPROCATING ENGINES.

Works No. 2651 No. of Sets 1 Description Triple expansion

L. 3 Cyls.

No. of Cylinders each Engine 3 No. of Cranks 3  
Diars. of Cylinders 18" - 30" - 50" Stroke 36"  
Cubic feet in each L.P. Cylinder 40.9Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? *yes.*" " " each Receiver? *yes.*Type of H.P. Valves, *Piston.*" 1st I.P. " *slide.*

" 2nd I.P. "

" L.P. " *slide.*" Valve Gear *Stephenson link.*" Condenser *Surface.*

Cooling Surface 1300 sq. ft.

Diameter of Piston Rods (plain part)  $1\frac{3}{4}$ " Screwed part (bottom of thread) 3.536"Material " *I.S.*Diar. of Connecting Rods (smallest part)  $5\frac{1}{4}$ " Material *I.S.*" Crosshead Gudgeons  $5\frac{1}{2}$ " Length of Bearing 8" Material *I.S.*No. of Crosshead Bolts (each) 2 Diar. over Thrd.  $2\frac{3}{4}$ " Thrds. per inch 6 Material *Steel.*" Crank Pin " " 2 "  $2\frac{3}{4}$ " " 6 " "" Main Bearings 6 Lengths  $10\frac{1}{2}$ "" Bolts in each 2 Diar. over Thread  $3\frac{1}{4}$ " Threads per inch 6 Material *steel.*" Holding Down Bolts, each Engine 8 $\frac{1}{2}$ " Diar.  $1\frac{1}{4}$ " No. of Metal Chocks 8 $\frac{1}{2}$ Are the Engines bolted to the Tank Top or to a Built Seat? *Tank top.*Are the Bolts tapped through the Tank Top and fitted with Nuts Inside? *yes.*

If not, how are they fitted? ✓

Connecting Rods, Forged by *Darlington Forge Co.*

Piston " " " " "

Crossheads, " " " " "

Connecting Rods, Finished by *R.W. Co. Ltd.*

Piston " " " " "

Crossheads, " " " " "

Date of Harbour Trial

" Trial Trip *13-4-76*Trials run at *Quebec.*

Were the Engines tested to full power under Sea-going conditions?

If so, what was the I.H.P.? *no cards*Revs. per min. *1100*

Pressure in 1st I.P. Receiver, 40 lbs., 2nd I.P., lbs., L.P., 5 lbs., Vacuum, 26 ins.

Speed on Trial *about 12 miles per hour*

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:—

Builders' estimated I.H.P.

Revs. per min.

Estimated Speed



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## TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

Are the Propeller Shafts driven direct by the Motors or through Gearing?

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion	}	Width	Pitch of Teeth
" 1st " Wheel			

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion	}	Width	Pitch of Teeth
" 2nd " Wheel			

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" Motors "
" " 1st Reduction Shaft
" " 2nd "
" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial                      Knots.    Propeller Revs. per min.                      S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

## DESCRIPTION OF INSTALLATION.





No. of Blades each Propeller *4* Fitted or Solid? *Fitted.*  
 Material of Blades *Cast Iron.* Boss *Cast Iron.*  
 Diam. of Propellers *12'-9"* Pitch *12'-3"* Surface (each *56* S. ft.  
 Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth

Crank Shafts Forged by *Darlington Forge Co.* Material *IS.*  
 " Pins " " " "  
 " Webs " *St. Louis* " "  
 Thrust Shafts " *Darlington Forge Co.* " "  
 Intermed. " " " "  
 Propeller " " " "  
 Crank " Finished by *R.W. Co. Wheel*  
 Thrust " " " "  
 Intermed. " " " "  
 Propeller " " " "

## STAMP MARKS ON SHAFTS.

Crank Shaft:-

B.C.  
 No 461  
 20-7-25  
 J. D. S.

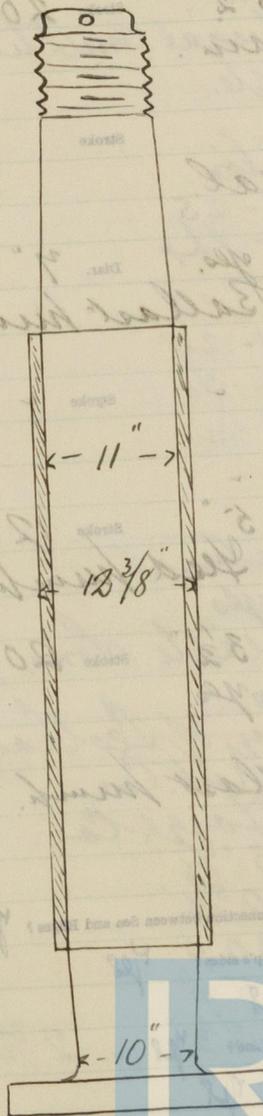
Thrust Shaft:-

B.C.  
 No 469  
 3-9-25  
 J. D. S.

Tail Shaft:-

B.C.  
 No 468  
 18-7-25  
 J. H.  
 31-7-25  
 J. L.

## SKETCH OF PROPELLER SHAFT.



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## PUMPS, ETC.

No. of Air Pumps 1      Diar. 15 1/2"      Stroke 20"

Worked by Main or Independent Engines? main.

No. of Circulating Pumps 1      Diar.      Stroke

Type of " Centrifugal.

Diar. of " Suction from Sea 8"

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

What other Pumps can circulate through Condenser? Ballast pump.

No. of Feed Pumps on Main Engine ✓      Diar. ✓      Stroke ✓

Are Spring-loaded Relief Valves fitted to each Pump? ✓

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

No. of Independent Feed Pumps 1 pair.      Diar. 5"      Stroke 12"

What other Pumps can feed the Boilers? Aux. Feed pump.

No. of Bilge Pumps on Main Engine 2      Diar. 3 1/2"      Stroke 20"

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

No. of Independent Bilge Pumps ✓

What other Pumps can draw from the Bilges? Ballast pump.

Are all Bilge Suctions fitted with Roses? yes

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

Are all Sea Connections made with Valves or Cocks next the Ship's sides? yes

Are they placed so as to be easily accessible? yes

Are the Discharge Chests placed above or below 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

## BOILERS

*[Handwritten notes and tables on page 13, including boiler specifications and dates. The text is mostly illegible due to handwriting and bleed-through from the reverse side.]*

*[Faintly visible bleed-through from the reverse side:]*  
 No. of Boilers  
 Type of Boilers  
 No. of Tubes in each  
 Type of Tubes  
 Date when first approved  
 Approval Working Pressure  
 Hydrostatic Test Pressure  
 Date of Hydrostatic Test  
 when safety valves are  
 Pressure at which Valves were set  
 Date of Examination  
 Name of Examining Authority  
 Name of Engineer  
 One Boiler is worked separately  
 Name of Boiler  
 Capacity of Boilers  
 Name of Part  
 Name  
 Name  
 Greatest Internal Diam. of Boilers  
 Length  
 Square Feet of Heating Surface each Boiler  
 Name  
 No. of safety Valves each Boiler  
 Are the Safety Valves fitted with Cocks  
 Name of Working Gears  
 Name of Control Gears



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BOILERS.

Works No. 2651.  
 No. of Boilers 2 Type *Cylindrical multitubular*  
 Single or Double-ended *single.*  
 No. of Furnaces in each 3  
 Type of Furnaces *Blighton.*  
 Date when Plan approved *25-4-25.*  
 Approved Working Pressure *185 lbs.*  
 Hydraulic Test Pressure *328 "*  
 Date of Hydraulic Test *15-7-25*  
 " when Safety Valves set *13-4-26*  
 Pressure at which Valves were set *185 lbs.*  
 Date of Accumulation Test -  
 Maximum Pressure under Accumulation Test -  
 System of Draught *natural.*  
 Can Boilers be worked separately? *Yes.*  
 Makers of Plates *D. Colville Sons. &*  
 " Stay Bars *Steel Coy. of Scotland.*  
 " Rivets *R. B. Whit. Coy.*  
 " Furnaces *Leeds Forge Coy.*  
 Greatest Internal Diam. of Boilers *13'-3 1/16"*  
 " " Length " *10'-10 5/16"*  
 Square Feet of Heating Surface each Boiler *1730 sq ft*  
 " " Grate " " *57.5 sq ft*  
 No. of Safety Valves each Boiler 2 Rule Diam. *2 1/2* Actual *2 3/4*  
 Are the Safety Valves fitted with Easing Gear? *Yes.*  
 No. of Pressure Gauges, each Boiler 2 No. of Water Gauges 1  
 " Test Cocks " 3 " Salinometer Cocks 1

*Water Gauge fitted direct to the boiler shell or mounted on a pillar?*  
*Are the Water Gauge fittings fitted direct to the boiler shell or connected by pipes?*  
*Are the pipes connected to the boiler by cocks or valves?*  
*Are the low oil cocks or valves fitted on boiler shells?*  
*No. of Stoppers of shell fitting in each boiler.*  
*Plates in each boiler.*  
*Thickness of shell plates approved.*  
*in boiler.*  
*Are the rivets iron or steel?*  
*Are the longitudinal seams butt or lap joints?*  
*Are the butt straps single or double?*  
*Are the double butt straps of equal width?*  
*Thickness of outside butt straps.*  
*in boiler.*  
*Are longitudinal seams hand or machine riveted?*  
*Are the single double or triple riveted?*  
*No. of rivets in a lap.*  
*Diam. of rivet holes.*  
*No. of holes of rivets in Centre Circumferential Seams.*  
*Are these seams hand or machine riveted?*  
*Diam. of rivet holes.*  
*No. of holes of rivets in front and back circumferential seams.*  
*Are these seams hand or machine riveted?*  
*Diam. of rivet holes.*  
*No. of holes of rivets in the longitudinal seams.*  
*Are these seams hand or machine riveted?*  
*Diam. of rivet holes.*  
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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *Pillars.*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes? *pipes.*

Are these Pipes connected to Boilers by Cocks or Valves? *cocks.*

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

No. of Strakes of Shell Plating in each Boiler *1*

Plates in each Strake *2*

Thickness of Shell Plates Approved *1 3/32"*

in Boilers *1 7/32"*

Are the Rivets Iron or Steel? *steel.*

Are the Longitudinal Seams Butt or Lap Joints? *butt.*

Are the Butt Straps Single or Double? *double.*

Are the Double Butt Straps of equal width? *y/so.*

Thickness of outside Butt Straps *1"*

inside *1"*

Are Longitudinal Seams Hand or Machine Riveted? *machine.*

Are they Single, Double, or Treble Riveted? *treble.*

No. of Rivets in a Pitch *5*

Diar. of Rivet Holes *1 3/16"* Pitch *8 1/8"*

No. of Rows of Rivets in Centre Circumferential Seams *-*

Are these Seams Hand or Machine Riveted? *-*

Diar. of Rivet Holes *-* Pitch *-*

No. of Rows of Rivets in Front End Circumferential Seams *2*

Are these Seams Hand or Machine riveted? *hand.*

Diar. of Rivet Holes *1 3/16"* Pitch *3 3/8"*

No. of Rows of Rivets in Back End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *machine.*

Diar. of Rivet Holes *1 3/16"* Pitch *3 3/8"*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *2'-10" x 2'-4" x 1 3/32"*

*19" x 18"*

*3 1/2"*

*3 1/2"*

*12" x 8"*

*8"*

*8"*

*12" x 8"*

*8"*

*8"*

*12" x 8"*

*8"*

*8"*



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Diar. of Stays Approved  $2\frac{1}{4}$ " Threads per Inch 6  
 " " in Boilers  $2\frac{1}{4}$ " " 6  
 Material " steel.

Thickness of Front Tube Plates Approved  $\frac{7}{8}$ "  
 " " " " in Boilers  $\frac{7}{8}$ "  
 Pitch of Stay Tubes at Spaces between Stacks of Tubes  $14\frac{1}{4}$ " x  $8\frac{3}{4}$ "  
 Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $5\frac{1}{16}$ " x  $\frac{3}{8}$ "  
 Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Back Tube Plates Approved *Centre  $\frac{3}{4}$ " wings  $2\frac{7}{32}$ "*  
 " " " in Boilers *"  $\frac{3}{4}$ "  $2\frac{7}{32}$ "*  
 Pitch of Stay Tubes in Back Tube Plates  *$13\frac{1}{2}$ " x  $8\frac{3}{4}$ "*  
 " Plain "  *$4\frac{1}{2}$ " x  $4\frac{3}{8}$ "*  
 Thickness of Stay Tubes  *$5\frac{1}{16}$ "  $\frac{3}{8}$ " +  $\frac{1}{16}$ "*  
 " Plain " *8. w.f.*  
 External Diar. of Tubes  *$3\frac{1}{4}$ "*  
 Material " *Iron.*

Thickness of Furnace Plates Approved  $1\frac{7}{32}$ "  
 " " " in Boilers  $1\frac{7}{32}$ "  
 Smallest outside Diar. of Furnaces  $3 - 3\frac{13}{16}$ "  
 Length between Tube Plates  $21 - 9"$

Width of Combustion Chambers (Front to Back)  $2 - 5\frac{15}{16}$ "  
 Thickness of " " Tops Approved *Centre  $2\frac{3}{32}$ " wings  $\frac{1}{16}$ "*  
 " " " in Boilers *"  $2\frac{3}{32}$ "  $\frac{1}{16}$ "*  
 Pitch of Screwed Stays in C.O. Tops  $10\frac{1}{2}$ " x  $8\frac{5}{8}$ "

Diar. of Screwed Stays Approved  $1\frac{3}{4}$ " Threads per Inch 6  
 " " in Boilers  $1\frac{3}{4}$ " " 6  
 Material " steel.

Thickness of Combustion Chamber Plates Approved  $\frac{1}{16}$ "  
 " " " in Boilers  $\frac{1}{16}$ "  
 Pitch of screw stays in C.O. Tops  $8\frac{3}{8}$ " x 8"  
 Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $5\frac{1}{16}$ " x  $\frac{3}{8}$ "  
 Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Combustion Chamber Plates Approved  $\frac{1}{16}$ "  
 " " " in Boilers  $\frac{1}{16}$ "  
 Pitch of screw stays in C.O. Tops  $10$ " x  $8$ "  
 Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $5\frac{1}{16}$ " x  $\frac{3}{8}$ "  
 Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Combustion Chamber Bottoms  $\frac{1}{16}$ "  
 No. of Girders over each Wing Chamber 4  
 Centre  $21 - 9"$



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Diar. of Screwed Stays Approved  $1\frac{3}{4}$ " Threads per Inch 9  
 " " " in Boilers  $1\frac{3}{4}$ "  
 Material " " *steel.*

Thickness of Combustion Chamber Sides Approved *Centre*  $2\frac{1}{32}$ " *wings*  $4/16$ "  
 " " " " in Boilers "  $2/32$ " "  $4/16$ "

Pitch of Screwed Stays in C.C. Sides  $8\frac{5}{8}$ " x 8"  
 Diar. " " Approved  $1\frac{3}{4}$ " Threads per Inch 9  
 " " " in Boilers  $1\frac{3}{4}$ "  
 Material " " *steel.*

Thickness of Combustion Chamber Backs Approved  $1/16$ "  
 " " " " in Boilers  $1/16$ "  
 Pitch of Screwed Stays in C.C. Backs  $10$ " x 8"  
 Diar. " " Approved  $2\frac{1}{8}$ ,  $2\frac{1}{8}$ ,  $1\frac{3}{4}$ " Threads per Inch 9  
 " " " in Boilers  $2\frac{1}{8}$ ,  $2\frac{1}{8}$ ,  $1\frac{3}{4}$ "  
 Material " " *steel.*

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 Tubes, each Boiler

Size of Lower Manholes

*No.*  
 $1\frac{3}{4}$ "

4  
2  
 $8$ " x  $15\frac{5}{8}$ "  
*steel.*

2

*Centre*  $1/16$ "  
*wings*  $1/16$ "  
208  
 $16$ " x  $12$ "

## VERTICAL DONKEY BOILERS

No. of Boilers  
 Diameter of Boilers  
 Height  
 Height of Boiler Crown above Fire Grate  
 Are Boiler Crowns Flat or Dished?  
 Internal Radius of Dished Boilers  
 Description of Seams in Boiler Crowns  
 Diar. of Fire Tubes  
 Height of Firebox Crown above Fire Grate  
 Are Firebox Crowns Flat or Dished?  
 External Radius of Dished Crowns  
 No. of Crown Stays  
 Diar.  
 Material  
 Thickness of Plates  
 Thickness of Plates  
 External Diar. of Firebox at Top  
 Bottom  
 No. of Water Tubes  
 Diar. Diar.  
 Material of Water Tubes  
 Size of Manhole in Shell  
 Dimensions of Compressing Ring  
 Heating surface, each boiler  
 Plate Surface

## SUPERHEATERS



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## VERTICAL DONKEY BOILERS.

No. of Boilers \_\_\_\_\_ Type \_\_\_\_\_

Greatest Int. Diar. \_\_\_\_\_ Height \_\_\_\_\_

Height of Boiler Crown above Fire Grate \_\_\_\_\_

Are Boiler Crowns Flat or Dished? \_\_\_\_\_

Internal Radius of Dished Ends \_\_\_\_\_ Thickness of Plates \_\_\_\_\_

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 \_\_\_\_\_ Diar. \_\_\_\_\_ Material \_\_\_\_\_

External Diar. of Firebox at Top \_\_\_\_\_ Bottom \_\_\_\_\_ Thickness of Plates \_\_\_\_\_

No. of Water Tubes \_\_\_\_\_ Ext. Diar. \_\_\_\_\_ Thickness \_\_\_\_\_

Material of Water Tubes \_\_\_\_\_

Size of Manhole in Shell \_\_\_\_\_

Dimensions of Compensating Ring \_\_\_\_\_

Heating Surface, each Boiler \_\_\_\_\_ Grate Surface \_\_\_\_\_

## 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 each Superheater \_\_\_\_\_ Diar. \_\_\_\_\_

Are " " fitted with Easing Gear? \_\_\_\_\_

Date of Hydraulic Test \_\_\_\_\_ Test Pressure \_\_\_\_\_

Date when Safety Valves set \_\_\_\_\_ Pressure on Valves \_\_\_\_\_

## MAIN STEAM PIPES

No. of Pipes \_\_\_\_\_

Material \_\_\_\_\_

Diam. Welded or Seamless \_\_\_\_\_

Internal Diar. \_\_\_\_\_

Thickness \_\_\_\_\_

How are Flanges secured? \_\_\_\_\_

Date of Hydraulic Test \_\_\_\_\_

Test Pressure \_\_\_\_\_

No. of Pipes \_\_\_\_\_

Material \_\_\_\_\_

Diam. Welded or Seamless \_\_\_\_\_

Internal Diar. \_\_\_\_\_

Thickness \_\_\_\_\_

How are Flanges secured? \_\_\_\_\_

Date of Hydraulic Test \_\_\_\_\_

Test Pressure \_\_\_\_\_

No. of Pipes \_\_\_\_\_

Material \_\_\_\_\_

Diam. Welded or Seamless \_\_\_\_\_

Internal Diar. \_\_\_\_\_

Thickness \_\_\_\_\_

How are Flanges secured? \_\_\_\_\_

Date of Hydraulic Test \_\_\_\_\_

Test Pressure \_\_\_\_\_



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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.	1	Type	Live steam Surface Feed Heater
Makers			R.W. Co. Ltd.
Working Pressure	185 lbs.	Test Pressure	432 lbs.
		Date of Test	28-7-25

## FEED WATER FILTERS.

No.	1	Type	Cascade	Size	No. 1.
Makers			R.W. Co. Ltd.		
Working Pressure		Test Pressure		Date of Test	

## LIST OF DONKEY PUMPS.

Ballast Pump.	9x10x10	Henry Watson
General Service	8x5x8	Thom Lamont Co.
Sanitary Pump	4x2 $\frac{3}{4}$ x5	Thom Lamont Co.



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## REFRIGERATORS.

No. of Machines

Capacity of each

Makers

Description

No. of Steam Cylinders, each Machine

No. of Compressors

No. of Cranks

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently

System of Refrigeration

,, Insulation

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

Spaces?

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

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

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

Date of Test under Working Conditions

## RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
Eng. Room	75	75	450	95%
Low. Hgh.	5	5	10	95%
Acc. aft	30	30	10	95%
Acc. fwd	15	15	10	95%

Articles of Spare Gear for Refrigerating Plant carried on board:—

Iron deck	12	50	6	14	95%
Boat deck	10	70	5	14	95%



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## ELECTRIC LIGHTING.

Installation Fitted by *Davis Shipbuilding Repairing Co. Ltd.*  
 No. and Description of Dynamos *1 - 10 K.W. Compound wound*  
 Makers of Dynamos *General Electric Co.*  
 Capacity " *80* Amperes at *175* Volts. *450* Revols. per Min.  
 Current Alternating or Continuous *Continuous*  
 Single or Double Wire System *Double*  
 Position of Dynamos *F.A. Jiffy platform*  
 " Main Switch Board *Close to dynamo*  
 No. of Circuits to which Switches are provided on Main Switch Board

## Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>Eng. + Boiler</i>	<i>25</i>	<i>50 w</i>	<i>12½</i>	<i>10 A.S.</i>		<i>98%</i>	
<i>hav. lights</i>	<i>5</i>	<i>50</i>	<i>2½</i>	<i>10</i>		<i>98%</i>	
<i>Acc. aft</i>	<i>30</i>	<i>25</i>	<i>7½</i>	<i>10</i>		<i>98%</i>	
<i>Acc. fwd</i>	<i>26</i>	<i>25</i>	<i>6½</i>	<i>10</i>		<i>98%</i>	
<i>Tween deck</i>	<i>12</i>	<i>50</i>	<i>6</i>	<i>14</i>		<i>98%</i>	
<i>lamp plugs</i>	<i>10</i>	<i>50</i>	<i>5</i>	<i>14</i>		<i>98%</i>	

Total No. of Lights

*108*

No. of Motors driving Fans, &amp;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

1 - 4 circuit at switchboard

1 - 6 circuit in dining room

1 - 6 circuit in forecabin

1 - 5 circuit in wheel house

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. 14 B.S. S.W.G., Largest, No. 00 B.S. 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

W.T. conduit

do

W.T. fittings

Yes  
Yes

Yes

Yes

Yes

Yes

from conduit  
lead covered

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

is unimpaired? Yes

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

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? none in vicinity of compass.

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? Ohms.

Is the Installation supplied with a Voltmeter? Yes

" " " an Ampere Meter? Yes

Date of Trial of complete Installation 13th April 1926 Duration of Trial 6 hours.

Have all the requirements of Section 42 been satisfactorily carried out? Yes



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GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans? *Yes*

If not, give details of the points of difference, and state when these 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.

**"CITY OF KINGSTON"**

as ascertained by <sup>us</sup> ~~me~~ from personal examination

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

Fees—

	£	s.	d.
<b>MAIN BOILERS.</b>			
H.S. 3460	Sq. ft.	:	:
G.S. 115	"	:	:
<b>DONKEY BOILERS.</b>			
H.S. ✓	Sq. ft.	:	:
G.S. ✓	"	:	:
<b>ENGINES.</b>			
L.P.C. 40.9	Cub. ft.	:	:
Testing, &c. ...		:	:
Expenses ...		:	:
<b>Total</b> ...	<b>£</b>	<b>:</b>	<b>:</b>

*Installing \$37.00*

*Installing \$30.00  
\$62.00*

It is submitted that this Report be approved,

Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the

Fees advised \*

Fees paid



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Secretary

GENERAL INSTRUCTIONS

THESE INSTRUCTIONS ARE TO BE READ BY THE CANDIDATE AT THE TIME OF THE EXAMINATION AND BY THE EXAMINER AT THE TIME OF THE MARKING OF THE PAPER.

1. THE CANDIDATE MUST WRITE IN INK AND MUST WRITE CLEARLY AND LEGIBLY.

2. THE CANDIDATE MUST ANSWER ALL THE QUESTIONS AND MUST SHOW ALL THE WORK.

3. THE CANDIDATE MUST NOT WRITE ON THE MARGINS OF THE PAPER.

4. THE CANDIDATE MUST NOT USE A CALCULATOR OR ANY OTHER AID.

5. THE CANDIDATE MUST NOT TALK TO ANYONE DURING THE EXAMINATION.

6. THE CANDIDATE MUST NOT LEAVE THE EXAMINATION HALL WITHOUT THE PERMISSION OF THE EXAMINER.

7. THE CANDIDATE MUST NOT BRING ANY BOOKS OR PAPERS INTO THE EXAMINATION HALL.

8. THE CANDIDATE MUST NOT WRITE ANYTHING ON THE PAPER AFTER THE EXAMINATION HAS ENDED.

CITY OF KINGSTON

*D. W. [Signature]*  
*J. B. [Signature]*



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