

No. 1753

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. *1940* No. in Register Book *3267*

" *SPINA* "

S.S.

Makers of Engines

*Smiths Dock Co. Ltd.*

Works No. *291*

Makers of Main Boilers

*Cammerton Leslie Co. Ltd.*

Works No. *8981 A.*

Makers of Donkey Boiler

Works No.

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. 1940 No. in Register Book 3267

Received at Head Office 20<sup>th</sup> May 1926

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

"Shina"

Official No.

Port of Registry Leith

Registered Owners

South Georgia Coy.

Engines Built by

Swinton Dock Co. Ltd.

at

South Bank-on-Sea.

Main Boilers Built by

Wauchope Leslie & Co. Ltd.

at

Newcastle-on-Tyne.

Donkey

at

Date of Completion

3-26

First Visit 6-11-25

Last Visit

23-3-26

Total Visits

35

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## RECIPROCATING ENGINES.

Works No. **291** No. of Sets **1** Description **Triple Expansion S.S. Berkes.**

No. of Cylinders each Engine **3** No. of Cranks **3**

Diams. of Cylinders **12 1/4" - 20" - 34"** Stroke **24"**

Cubic feet in each L.P. Cylinder **12.6**

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.?  
" " " each Receiver? **y/so.**

Type of H.P. Valves, **Piston Slids.**

" 1st L.P. "

" 2nd L.P. "

" L.P. " **Slids.**

" Valve Gear **Stephenson Link.**

" Condenser **Surface.** Cooling Surface **642** sq. ft.

Diameter of Piston Rods (plain part) **3 3/8"** Screwed part (bottom of thread) **2.384"**

Material **Steel.**

Diam. of Connecting Rods (smallest part) **3 3/8"** Material **Iron, S.S.**

" Crosshead Gudgeons **3 5/8"** Length of Bearing **3 3/4"** Material **Steel.**

No. of Crosshead Bolts (each) **4** Diam. over Thrd. **1 1/2"** Thrds. per inch **8** Material **Steel.**

" Crank Pin " " **2** " **2"** " **4** " " "

" Main Bearings **6** Lengths **4 3/8"**

" Bolts in each **2** Diam. over Thread **1 7/8"** Threads per inch **4** Material **Steel.**

" Holding Down Bolts, each Engine **51** Diam. **1 1/4"** No. of Metal Chocks **51**

Are the Engines bolted to the Tank Top or to a Built Seat? **built seat.**

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside? **no**

If not, how are they fitted?

Connecting Rods, Forged by **Cumtts Wallenda Forge.**

Piston " " **Tips Long Cor.**

Crossheads, **Cumtts Wallenda Forge.**

Connecting Rods, Finished by **Cumtts Dock Co. Ld.**

Piston " " **Cumtts Wallenda Forge.**

Crossheads, " **Cumtts Wallenda Forge.**

Date of Harbour Trial **19-3-26.**

" Trial Trip **23-3-26.**

Trials run at **In Loo Bay.**

Were the Engines tested to full power under Sea-going conditions? **y/so.**

If so, what was the I.H.P.? **593.6** Revols. per min. **132**

Pressure in 1st L.P. Receiver, **64.2** lbs., 2nd L.P., **11.1** lbs., Vacuum, **25** ins.

Speed on Trial **11.45 knots.**

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

Builders' estimated I.H.P. **593.6** Revols. per min. **132**

Estimated Speed **11.45 knots.**



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TURBINE ENGINES.

Works No. Type of Turbines

No. of H.P. Turbines No. of L.P. No. of L.P. No. of Astern

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

Is Single or Double Reduction Gear employed?

Diar. of 1st Reduction Pinion } Width Pitch of Teeth
,, 1st ,, Wheel

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion } Width Pitch of Teeth
,, 2nd ,, Wheel

Estimated Pressure per lineal inch

Revol. per min. of H.P. Turbines at Full Power S.H.P.

I.P.

L.P.

1st Reduction Shaft

2nd

Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial

Trial Trip

Trials run at

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

Turbine Spindles forged by

Wheels forged or cast by

Reduction Gear Shafts forged by

Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

No. of Turbo-Generators

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafts

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diar. of 1st Reduction Pinion } Width
,, 1st ,, Wheel

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion } Width
,, 2nd ,, Wheel

Estimated Pressure per lineal inch

Revol. per min. of Generators at Full Power

Motors

1st Reduction Shaft

2nd

Propeller at Full Power

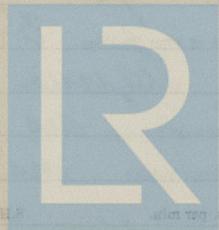
Total Shaft Horse Power

Date of Harbour Trial

Trial Trip

Trials run at

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



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## SHAFTING.

Are the Crank Shafts Built or Solid? **Built.**

No. of Lengths in each **4** Angle of Cranks **120°**

Diar. by Rule **6.6** Actual **6 7/8** In Way of Webs **6 7/8**

" of Crank Pins **6 7/8** Length between Webs **2 1/4**

Greatest Width of Crank Webs **13** Thickness **4 1/4**

Least " " **10** " **4 1/4**

Diar. of Keys in Crank Webs **1 1/4** Length **3 3/4**

" Dowels in Crank Pins **1** Length **3 1/2** Screwed or Plain **plain**

No. of Bolts each Coupling **4** Diar. at Mid Length **2** Diar. of Pitch Circle **11 1/4**

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

Type of Thrust Blocks **None shal.**

No. " Rings **4**

Diar. of Thrust Shafts at bottom of Collars **6 7/8** No. of Collars **4**

" " Forward Coupling **6 7/8** At Aft Coupling **6 7/8**

Diar. of Intermediate Shafting by Rule  Actual  No. of Lengths

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

Diar. of Propeller Shafts by Rule **6.94** Actual **7 3/8** At Couplings **6 7/8**

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

Diar. over Liners **8 7/16** Length of After Bearings **3'-3 1/2"**

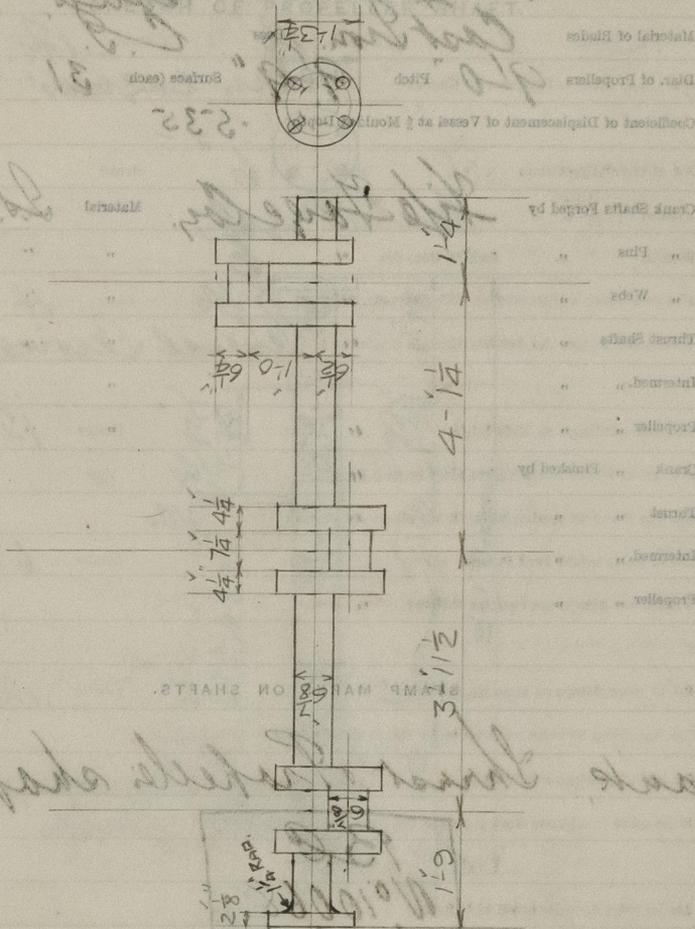
Of what Material are the After Bearings composed? **gunn vilas.**

Are Means provided for lubricating the After Bearings with Oil? **no**

" " to prevent Sea Water entering the Stern Tubes? **no.**

If so, what Type is adopted?

## SKETCH OF CRANK SHAFT.



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*In report*

No. of Blades each Propeller *4* Fitted or Solid? *split*  
 Material of Blades *Cast Iron* Boss  
 Diam. of Propellers *9'-0"* Pitch *9'-9"* Surface (each) *31* S. ft.  
 Coefficient of Displacement of Vessel at  $\frac{3}{4}$  Moulded Depth *.535*

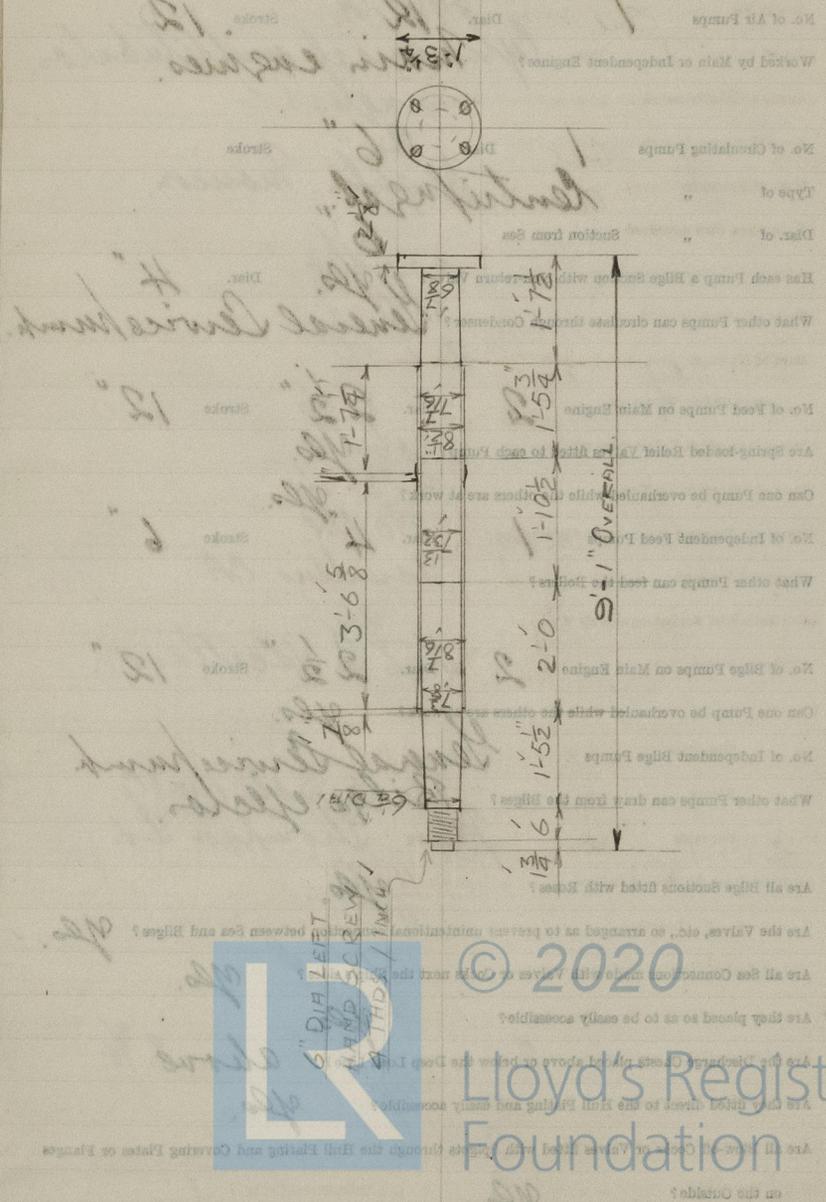
Crank Shafts Forged by	Material
<i>Wife Forge Co.</i>	<i>Is.</i>
" Pins "	" "
" Webs "	" "
Thrust Shafts "	" "
Intermed. " "	" "
Propeller " "	" "
Crank " Finished by	" "
Thrust " "	" "
Intermed. " "	" "
Propeller " "	" "

STAMP MARKS ON SHAFTS.

*Crank, Thrust Propeller shafts:-*

*B.C.*  
*No 10068*  
*16-12-25*  
*R.S.*

SKETCH OF PROPELLER SHAFT.



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Thickness of End Plates in Steam Space Approved 1" *Must be boiler*

" " " " " in Boilers 1"

Pitch of Steam Space Stays 15" x 15"

Diar. " " " " Approved 2 5/8" Threads per Inch 6

" " " " " in Boilers 2 5/8" 6

Material of " " " steel.

How are Stays Secured? Double-nuts.

Diar. and Thickness of Loose Washers on End Plates 1/4" thick.

" " Riveted " " ✓

Width " " Doubling Strips " ✓

Thickness of Middle Back End Plates Approved ✓

" " " " " in Boilers ✓

Thickness of Doublings in Wide Spaces between Fireboxes ✓ 15" x 9"

Pitch of Stays at " " " " 15" x 9"

Diar. of Stays Approved 1 7/8" Threads per Inch 9

" " in Boilers 1 7/8" 9

Material " steel.

Are Stays fitted with Nuts outside? yes.

Thickness of Back End Plates at Bottom Approved 3/4"

" " " " " in Boilers 3/4"

Pitch of Stays at Wide Spaces between Fireboxes 15" x 9" *front head*

Thickness of Doublings in " " 1"

Thickness of Front End Plates at Bottom Approved 1" *bottom*

" " " " " in Boilers 1"

No. of Longitudinal Stays in Spaces between Furnaces 1

3-1 x 2-9 x 18

Diag. of stays Approved 3/4" *stays*

" " " " " in Boilers 3/4"

Thickness of Front Tube Plates Approved 1"

Pitch of Stay Tubes at Space between Stacks of Tubes 1 3/8" x 1 1/4"

Thickness of Doublings in " " 1/2" + 1/2"

Stay Tubes at " " 1/2"

Are Stay Tubes fitted with Nuts at Front Head? 1/2"

Thickness of Back Tube Plates Approved 1/2"

" " " " " in Boilers 1/2"

Pitch of Stay Tubes in Back Tube Plates 1/2" x 1/2"

" " " " " Plain 1/2"

Thickness of Stay Tubes " " Plain 1/2"

External Diam. of Tubes 8.00"

Material " "

Thickness of Furnace Plates Approved 3/8"



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

Material " *steb.*

Thickness of Front Tube Plates Approved 1"  
 " " " " in Boilers 1"

Pitch of Stay Tubes at Spaces between Stacks of Tubes  $13\frac{1}{2}$ " x  $7\frac{1}{4}$ "

Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $7\frac{1}{16}$ " +  $3\frac{1}{8}$ "

Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Back Tube Plates Approved  $2\frac{5}{32}$ "  
 " " " in Boilers  $2\frac{5}{32}$ "

Pitch of Stay Tubes in Back Tube Plates  $9\frac{3}{8}$ " x  $7\frac{1}{4}$ "  
 " Plain "  $3\frac{3}{4}$ " +  $3\frac{5}{8}$ "

Thickness of Stay Tubes  $4\frac{1}{16}$ "  $3\frac{3}{8}$ " +  $1\frac{5}{16}$ "  
 " Plain " *no 9 L.S. J.*

External Diar. of Tubes 22  
 Material " *iron.*

Thickness of Furnace Plates Approved  $19\frac{1}{32}$ "  
 " " " in Boilers  $19\frac{1}{32}$ "

Smallest outside Diar. of Furnaces  $3-6\frac{3}{16}$ "

Length between Tube Plates  $4-7\frac{1}{2}$ "

Width of Combustion Chambers (Front to Back)  $2-8\frac{1}{2}$ "

Thickness of " " Tops Approved  $2\frac{3}{32}$ "  
 " " " in Boilers  $2\frac{3}{32}$ "

Pitch of Screwed Stays in C.C. Tops  $9\frac{3}{8}$ " x 9"

Diar. of screw stays Approved  $3\frac{1}{4}$ "  
 " " in Boilers  $3\frac{1}{4}$ "  
 Material " *steb.*

Thickness of Combustion Chamber Sides Approved  $2\frac{5}{32}$ "  
 " " " in Boilers  $2\frac{5}{32}$ "

Pitch of screw stays in C.C. Sides  $9\frac{3}{8}$ " x  $7\frac{1}{4}$ "

Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $7\frac{1}{16}$ " +  $3\frac{1}{8}$ "

Are Stay Tubes fitted with Nuts at Front End? *yes.*

Thickness of Combustion Chamber Backs Approved  $2\frac{5}{32}$ "  
 " " " in Boilers  $2\frac{5}{32}$ "

Pitch of screw stays in C.C. Backs  $9\frac{3}{8}$ " x  $7\frac{1}{4}$ "  
 " Plain "  $3\frac{3}{4}$ " +  $3\frac{5}{8}$ "

Thickness of Stay Tubes  $4\frac{1}{16}$ "  $3\frac{3}{8}$ " +  $1\frac{5}{16}$ "  
 " Plain " *no 9 L.S. J.*

External Diar. of Tubes 22  
 Material " *iron.*

Thickness of Furnace Bottoms  $19\frac{1}{32}$ "  
 " " " in Boilers  $19\frac{1}{32}$ "

Smallest outside Diar. of Furnaces  $3-6\frac{3}{16}$ "

Length between Tube Plates  $4-7\frac{1}{2}$ "

Width of Combustion Chambers (Front to Back)  $2-8\frac{1}{2}$ "

Thickness of " " Tops Approved  $2\frac{3}{32}$ "  
 " " " in Boilers  $2\frac{3}{32}$ "

Pitch of Screwed Stays in C.C. Tops  $9\frac{3}{8}$ " x 9"



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

Thickness of Combustion Chamber Sides Approved  $2\frac{3}{32}$ "  
 " " " " in Boilers  $2\frac{3}{32}$ "  
 Pitch of Screwed Stays in C.C. Sides  $9\frac{3}{8}" \times 9"$   
 Diar. " " Approved  $1\frac{3}{4}$ " Threads per Inch 9  
 " " " in Boilers  $1\frac{3}{4}$ " 9  
 Material " " *steel.*

Thickness of Combustion Chamber Backs Approved  $2\frac{1}{32}$ "  
 " " " " in Boilers  $2\frac{1}{32}$ "  
 Pitch of Screwed Stays in C.C. Backs  $9" \times 8\frac{1}{4}"$   
 Diar. " " Approved  $2\frac{1}{8} \times 1\frac{5}{8}"$  Threads per Inch 9  
 " " " in Boilers  $2\frac{1}{8} \times 1\frac{5}{8}"$  9  
 Material " " *steel.*

Are all Screwed Stays fitted with Nuts inside C.C.? *yes.*  
 Thickness of Combustion Chamber Bottoms  $2\frac{1}{8}"$

No. of Girders over each Wing Chamber 4  
 " " " Centre " "  
 Depth and Thickness of Girders  $8\frac{1}{2}" \times 1\frac{1}{2}"$   
 Material of Girders *steel.*  
 No. of Stays in each 2

No. of Tubes, each Boiler 246  
 Size of Lower Manholes  $16" \times 12"$

## VERTICAL DONKEY BOILERS

No. of Boilers  
 Type  
 Greatest Int. Diam.  
 Height  
 Height of Boiler Crown above Fire Grate  
 Are Boiler Crown Flat or Dished?  
 Internal Radius of Dished Crown  
 Thickness of Plates  
 Description of Seams in Boiler Crown  
 Pitch  
 Diam. of Rivet Heads  
 Width of Girders  
 Height of Firebox Crown above Fire Grate  
 Are Firebox Crown Flat or Dished?  
 Internal Radius of Dished Crown  
 No. of Crown Stays  
 Diam.  
 Material  
 Thickness of Plates  
 External Diam. of Firebox at Top  
 Bottom  
 No. of Water Tubes  
 Int. Diam.  
 Thickness  
 Material of Water Tubes  
 Diam. of Manhole in Shell  
 Dimensions of Connecting Ring  
 Heating Surface each Boiler  
 (Use Tables)

## 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

*Handwritten notes:*  
 1  
 2.0  
 4  
 2.0  
 9-8-9  
 100 lbs

No. of Pipes  
 Material  
 Height, Width or Diameter  
 Internal Diar.  
 Thickness  
 How are Joints secured?  
 Date of Hydraulic Test  
 Test Pressure  
 No. of Pipes  
 Material  
 Height, Width or Diameter  
 Internal Diar.  
 Thickness  
 How are Joints secured?  
 Date of Hydraulic Test  
 Test Pressure  
 No. of Pipes  
 Material  
 Height, Width or Diameter  
 Internal Diar.  
 Thickness  
 How are Joints secured?  
 Date of Hydraulic Test  
 Test Pressure



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## MAIN STEAM PIPES.

No. of Lengths

1

Material

copper.

Brazed, Welded or Seamless

S. D.

Internal Diam.

4"

Thickness

nos L.S.G.

How are Flanges secured?

braced.

Date of Hydraulic Test

7-3-26

Test Pressure

400 lbs.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

EVAPORATORS  
 One 4" x 6" supply  
 Service Header of Hot Steam  
 One 4" x 6" single cylinder  
 Pump. Waterhouse make

## FEED WATER HEATERS.

## FEED WATER FILTERS.



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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

## FEED WATER FILTERS.

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

## LIST OF DONKEY PUMPS

One 6" x 4 1/2" x 6" Duplex General  
Service Donkey by Thos. Caumont.

One 4 1/2" x 6" x 6" single cylinder whale air  
pump, Westinghouse make.



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## SPARE GEAR

No. of Top End Bolts.	2	No. of Bot. End Bolts.	2	No. of Cylinder Cover Studs	
" Coupling Bolts	4	" Main Bearing Bolts	2	" Valve Chest "	
" Junk Ring Bolts	6	" Feed Pump Valves	4	" Bilge Pump Valves	4
" H.P. Piston Rings		" I.P. Piston Rings		" L.P. Piston Rings	
" " Springs		" " Springs		" " Springs	1
" Safety Valve "	2	" Fire Bars	2 1/2 for pump	" Feed Check Valves	2
" Piston Rods		" Connecting Rods		" Valve Spindles	
" Air Pump Rods		" Air Pump Buckets	-	" Air Pump Valves	5
" Cir. "		" Cir. "	-	" Cir. "	
" Crank Shafts		" Crank Pin Bushes	-	" Crosshead Bushes	
" Propeller Shafts	1	" Propellers	1	" Propeller Blades	
" Boiler Tubes	6	" Condenser Tubes	15	" Condenser Ferrules	30

## OTHER ARTICLES OF SPARE GEAR:-

Fire bar Pattern.  
 One set Donkey Pump Valves.  
 2 Manhole door joints.  
 6 C.C. Stays & Nuts.  
 \* 2 spare Propeller Shafts for three Vessels.  
 One set of air distribution Valves for  
 One forced draught Furnace front.  
 One set mica plates for ash pit doors.  
 One piston rod gland.  
 One Valve rod gland.  
 6 Diaphragms for reducing valves.  
 For Fun Engine. Main, Top & Bottom End bearings with  
 bolts & nuts. Eccentric shear & strap complete.  
 Piston & slide rod. One piston & two sets  
 of rings.

6 gauge glasses & 12 india rubber rings for same.



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REFRIGERATORS.

No. of Machines *6* Capacity of each *4*  
 Makers *W. G. & Co. Ltd.*  
 Description *Vertical Piston*  
 No. of Steam Cylinders, each Machine *1* No. of Compressors *1* No. of Cranks *2*

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently  
 Air Pump *6*  
 Particulars of these Cylinders  
 No. of Circuits to which valves are attached in Insulated Spaces  
 Particulars of these Cylinders  
 No. of Circuits to which valves are attached in Insulated Spaces  
 Particulars of these Cylinders

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, &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.
<i>Engine Room</i>	<i>57.0</i>	<i>51.0</i>	<i>3.49</i>	<i>0.0%</i>
<i>At</i>	<i>57.0</i>	<i>51.0</i>	<i>3.49</i>	<i>0.0%</i>
<i>Refrigerator</i>	<i>57.0</i>	<i>51.0</i>	<i>3.49</i>	<i>0.0%</i>

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



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## ELECTRIC LIGHTING.

Installation Fitted by

*R. Pickercogie Sons.*

No. and Description of Dynamoes

*One compound wound.*

Makers of Dynamoes

*Cumberland Forge & Eng Co.*Capacity " *50* Amperes, at *110* Volts, *340* Revols. per Min.

Current Alternating or Continuous

*Continuous.*

Single or Double Wire System

*Double.*

Position of Dynamoes

*Starting platform.*

" Main Switch Board

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

*4.*

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>Forward 12</i> <i>Midships</i>	<i>14</i>	<i>570</i>	<i>5.1</i>	<i>7/036</i>	<i>3.199</i>	<i>100%</i>	<i>900000.</i>
<i>Engine Room</i> <i>1 aft</i>	<i>19</i>	<i>540</i>	<i>5.4</i>	<i>7/036</i>	"	"	"
<i>Navigation</i> <i>Chart House</i>	<i>8</i>	<i>340</i>	<i>3.4</i>	<i>7/036</i>	"	"	"
<i>Searchlight</i>	<i>1</i>		<i>25.0</i>	<i>7/044</i>	<i>1.389</i>	"	"

Total No. of Lights

*35*

No. of Motors driving Fans, &amp;c.

No. of Heaters

Current required for Motors and Heaters

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

*R. P. Robinson*  
*One Compartment*  
*Bunkers & Cargo Spaces*  
*340*  
*110*  
*80*  
*Continuous*  
*Single or Double Wire System*  
*Position of Dynamos*  
*Main Switch Board*  
*No. of Circuits to which switches are provided on Main Switch Board*

Particulars of these Circuits	Current in Amperes	Number of Lamps	Current in Amperes	Number of Lamps
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Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits *yes*

On Aux. " " each Auxiliary Circuit *yes*

Wherever a Cable is reduced in size *yes*

To each Lamp Circuit *yes*

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

Are the Fuses of Standard Sizes? *yes*

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

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

Smallest Single Wire used, No. *11/024* S.W.G., Largest, No. *19/024* S.W.G.

How are Conductors in Engine and Boiler Spaces protected? *Lead & Armoured cable.*

" Saloons, State Rooms, &c., " ? " "

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp *Lead & armoured cable.*

(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? *none.*

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

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? *yes*

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? *2 1/2 megohms.* Ohms.

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

" " " an Ampere Meter? *yes.*

Date of Trial of complete Installation *25-3-26* Duration of Trial *6 hours.*

Have all the requirements of Section 42 been satisfactorily carried out? *yes.*





GENERAL CONSTRUCTION

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It is estimated that this Report be approved.

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