

No. 2207

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2191 No. in Register Book 3554

MONDOCT

"WILLIAM SCHUPP"

Makers of Engines Charles S & B. Coy. Lici.

Works No. A267.

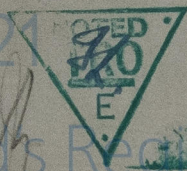
Makers of Main Boilers Charles S & B. Co Lici

Works No. A267.

Makers of Donkey Boiler None.

Works No. ✓

MACHINERY.



No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office *25th August 1928*

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Twin Triple~~ ^{Single Triple} Screw STEAMSHIP

WILLIAM SCHUPP

Official No. *160713* Port of Registry

Registered Owners *The Toronto Insurance &
Vessel Agency*

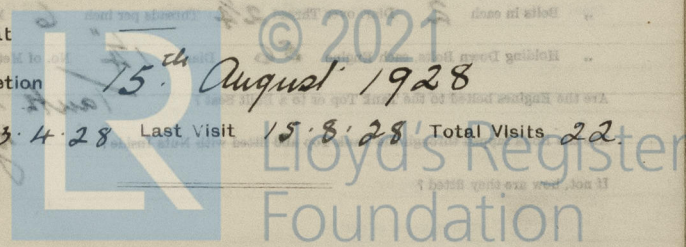
Engines Built by *Charles S & C. Coy. Ltd*
at *Hull*

Main Boilers Built by *Charles S & C. Coy. Ltd*
at *Hull*

Donkey " "

Date of Completion *15th August 1928*

First Visit *23.4.28* Last Visit *15.8.28* Total Visits *22*



RECIPROCATING ENGINES.

Works No. *A267* No. of Sets *1* Description *Triple expansion*

No. of Cylinders each Engine *3* No. of Cranks *3*
 Diars. of Cylinders *16" x 27" x 44"* Stroke *33"*
 Cubic feet in each L.P. Cylinder *29.03*

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

" " " each Receiver? *yes*

Type of H.P. Valve, *Solid type piston Valve.*
 I.P., *Double ported Slide Valve.*

2nd I.P., *✓*

L.P., *Double ported Slide Valve.*

" Valve Gear *Stephenson's*

" Condenser *Circulating Surface Rotating* Cooling Surface *950* sq. ft.

Diameter of Piston Rods (plain part) *4 7/8"* Screwed part (bottom of thread) *3.53"*

Material " *Forged Steel*

Diar. of Connecting Rods (smallest part) *4 1/2"* Material *Forged Steel*

" Crosshead Gudgeons *5 1/2"* Length of Bearing *7 1/2"* Material *Hard Steel*

No. of Crosshead Bolts (each) *2* Diar. over Thrd. *2 5/8"* Thrds. per inch *6* Material *Weld Steel*

" Crank Pin " *2* " *2 5/8"* " *6* " *Weld Steel*

" Main Bearings *6* Lengths *9 1/2"*

" Bolts in each *2* Diar. over Thread *2 1/4"* Threads per inch *6* Material *Weld Steel*

" Holding Down Bolts, each Engine *56* Diar. *1 1/4"* No. of Metal Chocks *56*

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 *Langley Forge Co.*

Piston " " " " " "

Crossheads " " " " " "

Connecting Rods, Finished by *Charles S. & Co.*

Piston " " " " " "

Crossheads, " " " " " "

Date of Harbour Trial

" Trial Trip *15.8.28*

Trials run at *Humber.*

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

If so, what was the I.H.P.? *Not taken*

H.P.

Pressure in 1st H.P. Receiver, *180* lbs., 2nd I.P., *35* lbs., L.P., *3* lbs., Vacuum, *26* ins.

Speed on Trial *8 1/4 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. *800.*

Revs. per min. *Estimation 100*

Estimated Speed *9 Knots.*

Engines only half opened out.



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TURBINE ENGINES.

Works No. Type of Turbines
 No. of H.P. Turbines No. of I.P. No. of L.P. No. of Stern

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

Is Single or Double Reduction Gear employed?

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 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

TURBO-ELEMENTAL INSTALLATION OF BOTTOM MACHINERY.

No. of Turbo-Generating sets Capacity of each

Type of Turbines employed

Description of Generators

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

Is Single or Double Reduction Gear employed?

No. of Motors driving Propeller Shafts

Description of Motors

Diam. of 1st Reduction Pinion

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors

" " 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



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built

No. of Lengths in each

5

Angle of Cranks

120°

Diar. by Rule

Actual

9 1/4"

In Way of Webs

9 1/2"

" of Crank Pins

9 1/4"

Length between Webs

10"

Greatest Width of Crank Webs

18"

Thickness

6"

Least

" "

18"

"

6"

Diar. of Keys in Crank Webs

Length

*✓**✓*

" Dowels in Crank Pins

1 3/8"

Length

2 1/2"

Screwed or Plain

Plain

No. of Bolts each Coupling

6

Diar. at Mid Length

2 1/8"

Diar. of Pitch Circle

14 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

4"

Type of Thrust Blocks

Horseshoe

No.

" Rings

4

Diar. of Thrust Shafts at bottom of Collars

9 1/4"

No. of Collars

4

" "

Forward Coupling

9 1/4"

At Aft Coupling

9 1/4"

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

Actual

10 3/4"

At Couplings

9 1/4"

Are Propeller Shafts fitted with Continuous Brass Liners?

yes.

Diar. over Liners

11 15/16"

Length of After Bearings

3'-7"

Of what Material are the After Bearings composed?

C.I. Bushed with lignum vitae.

Are Means provided for lubricating the After Bearings with Oil?

no

" " to prevent Sea Water entering the Stern Tubes?

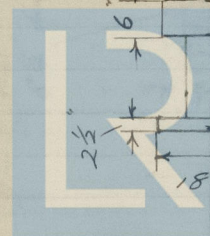
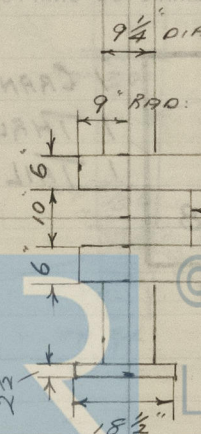
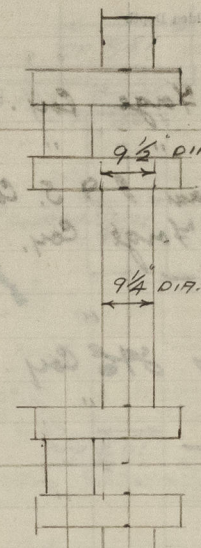
no

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.

M.P.

L.P.



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No. of Blades each Propeller *4* Fitted or Solid? *fitted*
 Material of Blades *Cast steel* Boss *Cast iron*
 Diam. of Propellers *12'-3"* Pitch *11'-0"* Surface (each) *46* S. It.)
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

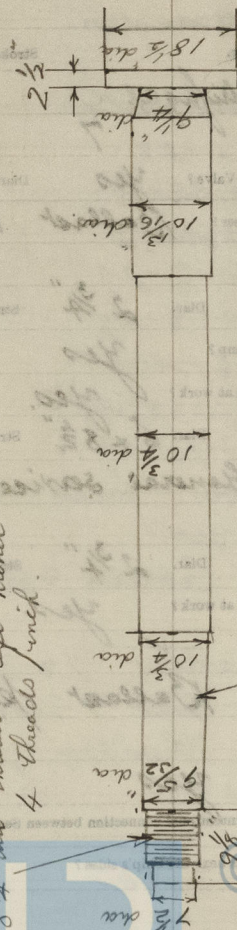
Crank Shafts Forged by *Langley Forge Coy.* Material *Quint. M. Steel*
 „ Pins „ „ „ „ „
 „ Webs „ *Greeningham I & S. Coy.* „ *Forged iron*
 Thrust Shafts „ *Langley Forge Coy.* „ *Quint. Steel*
 Intermed. „ „ „ „
 Propeller „ „ „ *Forged wrought Steel*
 Crank „ Finished by *Baras & Co.*
 Thrust „ „ „ „
 Intermed. „ „ „ „
 Propeller „ „ „ „

STAMP MARKS ON SHAFTS.

B. C.
 No 4398
 T. L.
 29-6-28

1 CRANK SHAFT.
 1 THRUST. "
 1 TAIL "

SKETCH OF PROPELLER SHAFT.



PUMPS, ETC.

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

Worked by Main or Independent Engines?

Main engine

No. of Circulating Pumps 1 Diar. Stroke

Type of "

Centrifugal

Diar. of " Suction from Sea

7

Has each Pump a Bilge Suction with Non-return Valve?

yes

Diar.

4 1/2"

What other Pumps can circulate through Condenser?

Ballast Pump.

No. of Feed Pumps on Main Engine 2 Diar. 2 3/4" Stroke 20"

Are Spring-loaded Relief Valves fitted to each Pump?

yes

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

yes.

No. of Independent Feed Pumps

Diar.

6" x 8 1/2"

Stroke

18"

What other Pumps can feed the Boilers?

General service pump.

No. of Bilge Pumps on Main Engine 2 Diar. 2 3/4" 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?

above.

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 Planges

on the Outside?

yes.

BOILERS.

No. of Boilers

Single or Double-ended

No. of Furnaces in each

Type of Furnace

Date when Plan approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

when Safety Valves set

Pressure at which Valves were set

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can Boilers be worked separately?

Makers of Boilers

Way Boilers

Heaters

Furnaces

Pressure Internal Diar. of Boilers

Length

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BOILERS.

Works No. **A 267**

No. of Boilers **2** Type **Single ended Multitubular.**

Single or Double-ended **Single ended.**

No. of Furnaces in each **2**

Type of Furnaces **Deightons Section**

Date when Plan approved **20-4-28.**

Approved Working Pressure **180 lbs. / sq. in.**

Hydraulic Test Pressure **320 lbs. / sq. in.**

Date of Hydraulic Test **6-7-28**

„ when Safety Valves set **10-8-28.**

Pressure at which Valves were set **180 lbs.**

Date of Accumulation Test **10-8-28**

Maximum Pressure under Accumulation Test **196 lbs.**

System of Draught **Howden forced draught.**

Can Boilers be worked separately? **yes.**

Makers of Plates **David Colville & Sons.**

„ Stay Bars **Fordingham J & S. Coy. ✓**

„ Rivets **River Bolt & Nut Coy.**

„ Furnaces **John Thompson Ltd. 2/9/28.**

Greatest Internal Diam. of Boilers **12'-0"**

„ „ Length „ **11'-0"**

Square Feet of Heating Surface each Boiler **1470**

„ „ Grate „ „ **38**

No. of Safety Valves each Boiler **2** Rule Diam. Actual **2 1/2"**

Are the Safety Valves fitted with Easing Gear? **yes.**

No. of Pressure Gauges, each Boiler **2** No. of Water Gauges **2**

„ Test Cocks „ **✓** „ Salinometer Cocks **1**



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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars?

on pillars

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

direct

Are these Pipes connected to Boilers by Cocks or Valves?

✓

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

yes.

No. of Strakes of Shell Plating in each Boiler

two.

" Plates in each Strake

two

Thickness of Shell Plates Approved

1"
1"

" " in Boilers

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?

yes

Thickness of outside Butt Straps

5/16"

" inside "

7/8"

Are Longitudinal Seams Hand or Machine Riveted?

Machine

Are they Single, Double, or Treble Riveted?

Treble.

No. of Rivets in a Pitch

5

Diam. of Rivet Holes

1 1/16"

Pitch

7 9/16"

No. of Rows of Rivets in Centre Circumferential Seams

Nil

Are these Seams Hand or Machine Riveted?

✓

Diam. of Rivet Holes

—

Pitch

✓

No. of Rows of Rivets in Front End Circumferential Seams

two.

Are these Seams Hand or Machine riveted?

hand.

Diam. of Rivet Holes

1 1/16"

Pitch

3 1/2"

No. of Rows of Rivets in Back End Circumferential Seams

two.

Are these Seams Hand or Machine Riveted?

Machine

Diam. of Rivet Holes

1 1/16"

Pitch

3 1/2"

Size of Manholes in Shell

Back end 16" x 12"

Dimensions of Compensating Rings

flange 3 7/16 deep.

BOILER TEST MARK.

B.C. TEST.
No 2813
320 LBS TEST.
180" W.P.
T.L.
6.7.28

PORT AND.
STARBOARD
BOILERS.



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Thickness of End Plates in Steam Space Approved

 $1\frac{1}{32}$ "

" " " " in Boilers

 $1\frac{1}{32}$ "

Pitch of Steam Space Stays

 $17\frac{1}{4} \times 15\frac{3}{4}$

Diar. " " " Approved

 $2\frac{3}{4}$ "

Threads per Inch

6

" " " " in Boilers

 $2\frac{3}{4}$ "

" 6

Material of " " "

Steel 28/32 Tons Tensile

How are Stays Secured?

double nuts

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

Width " Doubling Strips "

Thickness of Middle Back End Plates Approved

" " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

" " " "

Diar. of Stays Approved

Threads per Inch

" " in Boilers

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

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

" " " " in Boilers

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

Pitch of Stays at Wide Spaces between Fireboxes

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

Thickness of Doublings in

Nil

Thickness of Front End Plates at Bottom Approved

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

" " " " in Boilers

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

No. of Longitudinal Stays in Spaces between Furnaces

Three



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Diar. of Stays Approved $2\frac{1}{2} \times 2\frac{1}{4}$ Threads per Inch 6.
 " " in Boilers $2\frac{1}{2} \times 2\frac{1}{4}$ 6.
 Material " Steel 28 to 32 Tons Tensile

Thickness of Front Tube Plates Approved $1\frac{1}{16}$ "
 " " " in Boilers $1\frac{1}{16}$ "
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $13" \times 7\frac{1}{2}"$
 Thickness of Doublings in " " " Nil
 " Stay Tubes at " " " $\frac{3}{8}$
 Are Stay Tubes fitted with Nuts at Front End? Yes

Thickness of Back Tube Plates Approved $\frac{7}{8}$
 " " " in Boilers $\frac{7}{8}$
 Pitch of Stay Tubes in Back Tube Plates $11\frac{5}{8} \times 7\frac{1}{2}"$
 " Plain " $3\frac{3}{8} \times 3\frac{3}{4}"$
 Thickness of Stay Tubes $3\frac{3}{8} \times 5\frac{1}{16}"$
 " Plain " 9 G.
 External Diar. of Tubes $2\frac{1}{2}$.
 Material " 22 in.

Thickness of Furnace Plates Approved $1\frac{1}{32}"$
 " " " in Boilers $1\frac{1}{32}"$
 Smallest outside Diar. of Furnaces $3'-6\frac{7}{16}"$
 Length between Tube Plates $7'-3"$

Width of Combustion Chambers (Front to Back) $2'-8\frac{19}{32}"$
 Thickness of " " Tops Approved $1\frac{1}{16}"$
 " " " in Boilers $1\frac{1}{16}"$
 Pitch of Screwed Stays in C.C. Tops $9\frac{1}{8} \times 8\frac{1}{2}"$

Diar. of Stays Approved $2\frac{1}{2} \times 2\frac{1}{4}$ Threads per Inch 6.
 " " in Boilers $2\frac{1}{2} \times 2\frac{1}{4}$ 6.
 Material " Steel 28 to 32 Tons Tensile

Thickness of Front Tube Plates Approved $1\frac{1}{16}$ "
 " " " in Boilers $1\frac{1}{16}$ "
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $13" \times 7\frac{1}{2}"$
 Thickness of Doublings in " " " Nil
 " Stay Tubes at " " " $\frac{3}{8}$
 Are Stay Tubes fitted with Nuts at Front End? Yes

Thickness of Back Tube Plates Approved $\frac{7}{8}$
 " " " in Boilers $\frac{7}{8}$
 Pitch of Stay Tubes in Back Tube Plates $11\frac{5}{8} \times 7\frac{1}{2}"$
 " Plain " $3\frac{3}{8} \times 3\frac{3}{4}"$
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 " Plain " 9 G.
 External Diar. of Tubes $2\frac{1}{2}$.
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Width of Combustion Chambers (Front to Back) $2'-8\frac{19}{32}"$
 Thickness of " " Tops Approved $1\frac{1}{16}"$
 " " " in Boilers $1\frac{1}{16}"$
 Pitch of Screwed Stays in C.C. Tops $9\frac{1}{8} \times 8\frac{1}{2}"$



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Diam. of Screwed Stays Approved

1 5/8

Threads per Inch 9"

" " " in Boilers

1 5/8"

9

Material " "

Steel 26 To 30 Tons Tensile

Thickness of Combustion Chamber Sides Approved

1 1/16"

" " " " in Boilers

1 1/16"

Pitch of Screwed Stays in C.O. Sides

10" x 8 3/8"

Diam. " " Approved

1 5/8

Threads per Inch

" " " in Boilers

1 5/8

Material " "

Steel 26 To 30 Tons Tensile

Thickness of Combustion Chamber Backs Approved

2 1/32"

" " " " in Boilers

2 1/32"

Pitch of Screwed Stays in C.O. Backs

9 1/2" x 8 1/2"

Diam. " " Approved

1 5/8

Threads per Inch 9

" " " in Boilers

1 5/8"

9

Material " "

Steel 26 To 30 Tons Tensile

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

yes
1 1/16"

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

five

" " " Centre "

Depth and Thickness of Girders

Douglas 8 1/8" x 3/4"

Material of Girders

Steel 28 To 32 Tons Tensile

No. of Stays in each

Two.

No. of Tubes, each Boiler

252

Size of Lower Manholes

16" x 12"

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Greatest Int. Diam.
Height of Boiler Crown above Fire Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Ends
Description of Seams in Boiler Crowns
Diam. of Rivet Holes
Pitch
Height of Firebox Crown above Fire Grate
Are Firebox Crowns Flat or Dished?
External Radius of Dished Crowns
Diam.
No. of Crown Stays
External Diam. of Firebox at Top
No. of Water Tubes
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Compensating Ring
Heating Surface, each Boiler
Gross 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	
Internal, Welded or Seamed?	
Internal Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	
No. of Pipes	
Material	
Internal, Welded or Seamed?	
Internal Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	



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MAIN STEAM PIPES.

No. of Lengths	2
Material	Solid drawn steel
Brazed, Welded or Seamless	Seamless -
Internal Diam.	4"
Thickness	1/4"
How are Flanges secured?	Expanded into serrations
Date of Hydraulic Test	8-8-28.
Test Pressure	540 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

Calhoun Pump Station

General Service Pump

Local Water Pump

Hydraulic Test

Date of Test of safety valve under steam

FEED WATER HEATERS

General Service Pump

Local Water Pump

Hydraulic Test

Date of Test

FEED WATER FILTERS

General Service Pump

Local Water Pump

Hydraulic Test

Date of Test



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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	Exhaust Steam Multiflow Type.
Makers	Henry Watson & Sons. Ltd. Newcastle		
Working Pressure	Test Pressure	Date of Test	

FEED WATER FILTERS.

No.	1	Type	Gravitation Type.	Size
Makers	Hockings			
Working Pressure	Test Pressure	Date of Test		

LIST OF DONKEY PUMPS.

Ballast Pump, Launceston. 17° 14423.
 General Service Pump, ✓
 Fresh Water Pump, ✓
 Injector fitted ✓
 Nichol 17° 14503.



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OTHER ARTICLES OF SPARE GEAR:—

6 boiler stay nuts.
1 Donkey feed check valve.
Fire bars for 1 furnace.
24 Condenser packings.

REFRIGERATORS.

No. of Machines Capacity of each No. of Cylinders, each Machine

Makers

Description

U.S. Patent Office U.S. Patent Office U.S. Patent Office

U.S. Patent Office U.S. Patent Office U.S. Patent Office

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

U.S. Patent Office U.S. Patent Office U.S. Patent Office

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U.S. Patent Office U.S. Patent Office U.S. Patent Office

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.
1. Forehold	17.0	15.6	7.00	0.50
2. Engine Room	21.0	19.0	7.00	0.50
3. Engine Room	17.0	15.6	7.00	0.50
4. Spare				

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



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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?

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?

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 *15th Aug 1928* Duration of Trial *6 hours*

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

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxilliary 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. 3/029 S.W.G., Largest, No. 7/064 S.W.G

How are Conductors in Engine and Boiler Spaces protected? *Lead covered, armoured & braided*

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

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp *Lead covered armatures & insulated*

(2) "passing through Bunkers or Cargo Spaces" " "

(8) " " Deck Beams or Bulkheads *Bulkhead in head corner cables*
Grounds through mchheads of head corner & summe

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.

as ascertained by ^{us} ~~me~~ from personal examination

William Schupp.

John M. Laurie
Engine Surveyor to the British Corporation for the
Survey and Registry of Shipping.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
		£	:	:
ENGINES.				
L.P.O.	Cub. ft.	:	:	:
		£	:	:
Testing, &c. ...		:	:	:
		£	:	:
Expenses ...		:	:	:
Total ...	£	:	:	:

It is submitted that this Report be approved,

Thomas King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 14TH NOVEMBER, 1928

Fees advised

Fees paid



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Secretary.



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GENERAL EXPENDITURE

1908

The following is a statement of the general expenditure of the Foundation for the year 1908.

Salaries	£ 1,000	0	0
Gratuities	£ 500	0	0
Office expenses	£ 100	0	0
Printing and stationery	£ 50	0	0
Postage	£ 20	0	0
Travelling	£ 10	0	0
Repairs	£ 5	0	0
Insurance	£ 2	0	0
Light and heat	£ 1	0	0
Telephone	£ 1	0	0
Interest on loans	£ 1	0	0
Gifts	£ 1	0	0
Reserve fund	£ 1	0	0
Total	£ 1,700	0	0

It is submitted that this Report be approved.

The above is a statement of the general expenditure of the Foundation for the year 1908.

Approved by the Committee for the year 1908 on the 14th November 1908.

The following is a statement of the general expenditure of the Foundation for the year 1908.

The following is a statement of the general expenditure of the Foundation for the year 1908.

1908

1908



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