

No. 1696

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1534* No. in Register Book *2744*

CH15PA
EX
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EX
S.S. *"Canadian Freighter"*

Makers of Engines *The John Inglis Coy*

Works No. *21100*

Makers of Main Boilers *Vulcan Iron Works, Ltd.*

Works No. *2419*

2147
Makers of Donkey Boiler

Works No.

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *153#* No. in Register Book *27#*

Received at Head Office *11th May 1922*

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ *Single Triple* Screw *8 1/2* "Canadian Freighter".

Official No. *150593*

Port of Registry *Vancouver, B.C.*

Registered Owners

*Canadian Government Merchant
Marine, Ltd.*

Engines Built by

The John Inglis Coy Ltd

at

TORONTO CANADA.

Main Boilers Built by

Vulcan Iron Works Ltd.

at

Vancouver, B.C.

Donkey

at

Date of Completion

Feb'y. 1922

First Visit

3-11-20

Last Visit

3/-12-21

Total Visits

6/

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RECIPROCATING ENGINES.

Works No. **21100** No. of Sets **1** Description**Triple Expansion S.C.**

No. of Cylinders each Engine

3

No. of Cranks

3

Diams. of Cylinders

27" 44" 73"

Stroke

48"

Cubic feet in each L.P. Cylinder

116 cu ft.

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

Yes

each Receiver?

Yes

Type of H.P. Valves,

Piston Valve.

" 1st I.P. "

Piston Valve

" 2nd I.P. "

" L.P. "

Slide Valve Double Ported

" Valve Gear,

Stevenson Link

" Condenser

Contraflow

Cooling Surface

sq. ft.

Diameter of Piston Rods (plain part)

7"

Screw part (bottom of thread)

5"

Material

Forged Steel

Diam. of Connecting Rods (smallest part)

6 1/2"

Material

Forged Steel

" Crosshead Gudgeons

2

Length of Bearing

7 1/2"

Material

do

No. of Crosshead Bolts (each)

4

Diam. over Thrd.

3

Thrds. per inch

4

Material

"

" Crank Pin "

2

" "

4

" "

4

" "

"**"**

" Main Bearings

6

Lengths

13

" Bolts in each

2

Diam. over Thread

3 1/2"

Threads per inch

4"

Material

"

" Holding Down Bolts, each Engine

Diam.

No. of Metal Chocks

Are the Engines bolted to the Tank Top or to a Built Seat?

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

Connecting Rods, Forged by

Canada Forge Welland Ont.

Piston

"

"

"

"

Crossheads,

"

"

"

"

Connecting Rods, Finished by

The John Inghs Coy Toronto

Piston

"

"

"

"

Crossheads,

"

"

"

"

Date of Harbour Trial

14-11-21

" Trial Trip

15-11-21

Trials run at

Vancouver, B.C.

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

Light Trial

If so, what was the I.H.P.?

2900

Revs. per min.

83

Pressure in 1st I.P. Receiver,

66

lbs., 2nd I.P.,

30

lbs., L.P.,

13

lbs., Vacuum,

26 1/2 ins.

Speed on Trial

13.00

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

data:—

Builders' estimated I.H.P.

3000

Revs. per min.

83

Estimated Speed



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Except where herein otherwise stated the
Main Engines, Auxiliaries & Boilers are
duplicates of those installed on the
S/S. "Canadian Transporter".

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?

Revs. per min. of H.P. Turbines at Full Power

"	"	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

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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TURBINE ENGINES

Works No. _____
 No. of H.P. Turbines _____
 No. of I.P. _____
 No. of A.S. _____

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

Is Single or Double Reduction Gear employed?

Revolutions per min. of H.P. Turbines at Full Power

110

110

1st Reduction Gear

Propeller Shaft

Total Shaft Horse Power

Date of H.P. Turbine Trial

110

110

110

Turbine Shafts driven by

Wheels forged or cast by

Reduction Gear Shafts forged by

Wheels forged or cast by

DESCRIPTION OF INSTALLATION

TURBO-ELECTRIC PROPELLING MACHINERY

No. of Turbo-Generator Sets _____
 Capacity of each _____

Type of Turbine employed _____

Description of Generator _____

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

Is Single or Double Reduction Gear employed?

Revolutions per min. of Motors at Full Power

110

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

Revolutions per min. of Generators at Full Power

110

110

110

110

110

110



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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

Revs. per min. of Generators at Full Power

" " Motors "

" " Propellers "

Total Shaft Horse Power "

Date of Harbour Trial

" Trial Trip

Trials run at

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

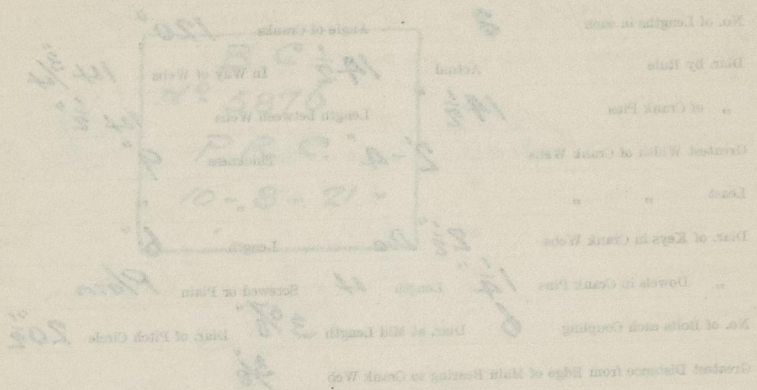


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SHAFTING

Crank & Thrust 1880/10



Distance from lip of main bearing to crank web
Distance between lip of main bearing to crank web
Distance between lip of main bearing to crank web
Distance between lip of main bearing to crank web
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SHAFTING.

Are the Crank Shafts Built or Solid?

Built

No. of Lengths in each

3

Angle of Cranks

120°

Diar. by Rule

Actual

14 1/2"

In Way of Webs

14 3/4"

" of Crank Pins

14 1/2"

Length between Webs

14 1/2"

Greatest Width of Crank Webs

2'-4"

Thickness

9"

Least " "

"

"

"

Diar. of Keys in Crank Webs

2 1/2" Dia

Length

6"

" Dowels in Crank Pins

1 1/4"

Length

4

Screwed or Plain

Plain

No. of Bolts each Coupling

6

Diar. at Mid Length

3 5/8"

Diar. of Pitch Circle

20 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

3/8"

Type of Thrust Blocks

Horse Shoe Type.

No. " Rings

8

Diar. of Thrust Shafts at bottom of Collars

14 1/2"

No. of Collars

8

" " "

Forward Coupling

14 1/2"

At Aft Coupling

14 1/2"

Diar. of Intermediate Shafting by Rule

13.04'

Actual

14 1/2"

No. of Lengths

6

No. of Bolts, each Coupling

6

Diar. at Mid Length

3 5/8"

Diar. of Pitch Circle

20 1/2"

Diar. of Propeller Shafts by Rule

15.32'

Actual

15 1/2"

At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners?

No

Diar. over Liners

14

Length of After Bearings

60 1/2"

Of what Material are the After Bearings composed?

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.

*Crank & Thrust Shafts Slamped**B.C.**Nº 5876**P.R.C.**10-8-21.*

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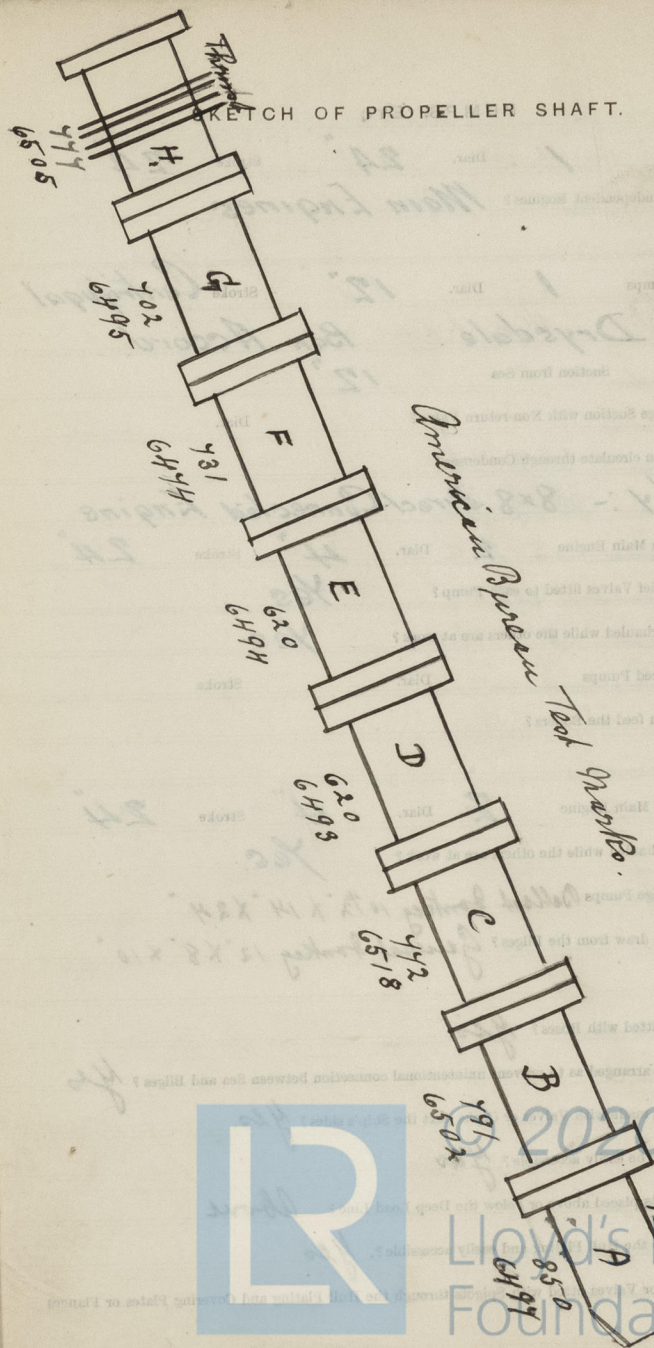
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No. of Blades each Propeller *4* Fitted or Solid? *Fitted*
 Material of Blades *Brass* Boss *Cast Steel*
 Diam. of Propellers *14-6"* Pitch *15-9"* Surface (each) *95* S. ft.
 Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth *.48*

Crank Shafts Forged by *Canada Forge Welland* Material *Forged Steel*
 " Pins " " " " " "
 " Webs " " " " " "
 Thrust Shafts " " " " " "
 Interned. " " " " " "
 Propeller " " " " " "
 Crank " Finished by *The John Inglis Coy Ltd*
 Thrust " " " " " "
 Interned. " " " " " "
 Propeller " " " " " "

STAMP MARKS ON SHAFTS.

SKETCH OF PROPELLER SHAFT.



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PUMPS, ETC.

No. of Air Pumps *1* Diar. *24"* Stroke *24"*
 Worked by Main or Independent Engines? *Main Engines*

No. of Circulating Pumps *1* Diar. *12"* Stroke *Centrifugal*
 Type of " *Drysdale* *Bon Accord*
 Diar. of " Suction from Sea *12"*
 Has each Pump a Bilge Suction with Non-return Valve? *Yes*
 What other Pumps can circulate through Condenser?
Driven by:- 8x8 Direct-Connected Engine
 No. of Feed Pumps on Main Engine *2* Diar. *4"* Stroke *24"*
 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 *2* Diar. *4"* Stroke *24"*
 What other Pumps can feed the Boilers?
 No. of Bilge Pumps on Main Engine *2* Diar. *4"* Stroke *24"*
 Can one Pump be overhauled while the others are at work? *Yes*
 No. of Independent Bilge Pumps *Ballast Ponkey 10 1/2" x 14" x 24"*
 What other Pumps can draw from the Bilges? *General Ponkey 12" x 8" x 10"*
 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 Flanges
 on the Outside?

BOILERS



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

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

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 Approved

„ „ in Boilers

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

„ „ inside „

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diar. of Rivet Holes Pitch

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

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " " Approved Threads per Inch

" " " " " in Boilers "

Material of " " "

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

" " " Riveted " " "

Width " " Doubling Strips " " "

Thickness of Middle Back End 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

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Threads per Inch

Diagonal of Stays Approved

" " " in Boilers

Material

Thickness of Front End Plates Approved

" " " in Boilers

Pitch of Stay Tubes at Spaces between Shells of Tubes

Thickness of Doublings in

" " " Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back End Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " Plain

Thickness of Stay Tubes

" " " Plain

External Diam. of Tubes

Material

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Plates

Width of Combustion Chamber (Front to Back)

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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

Thickness of Front Tube Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diar. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Threads per Inch

Diar. of Screwed Stays Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diar. " Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " 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 Tubes over Boiler

Size of Tubes



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Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

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

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

VERTICAL DONKEY BOILERS.

No. of Boilers

Greatest Int. Diam.

Height

Height of Boiler Crown above this Girth

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Ends

Description of Beams in Boiler Crown

Diam. of River Hole

Height of Firebox Crown above this Girth

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

Size of Manholes in Shell

Dimensions of Compressing Rod

Heating Surface each Boiler

SUPERHEATERS.

Description of Superheaters

Where situated?

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Can Superheaters be shut off while Boilers are working?

Which Boilers are connected to Superheaters?

Are Superheaters fitted with Safety Valves?

Date of Installation

Pressure on Valves

Date when Safety Valves set



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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 Diar.	
External Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	



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MAIN STEAM PIPES.

No. of Lengths	5
Material	Mild Steel
Brazed, Welded or Seamless	Lap Welded
Internal Diam.	5"
Thickness	2.58
How are Flanges secured?	Expanded & beaded over
Date of Hydraulic Test	5-10-21
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

No.	Type	Working Pressure	Date of Test

FEED WATER HEATERS

No.	Type	Working Pressure	Date of Test

FEED WATER FILTERS

No.	Type	Working Pressure	Date of Test

SUPERHEATERS



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EVAPORATORS.

No. 11	Type	Mamie	25	Tons per Day
Makers	Anderson & Co. Portland			
Working Pressure	under 100	Test Pressure	180	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.

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SPARE GEAR.

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

OTHER ARTICLES OF SPARE GEAR:—

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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, &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 14/12/21

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after 14 hours.
Box 1	54	0	2 1/2 hrs.	14
2	4	0	4	14
3	4	0	14	13
4	12	2	14	12

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



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

Particulars of these Circuits—	No. of Circuits to which Switches are provided on Main Switch Board	Location of Dynamos	Single or Double Wire System	Current Alternating or Continuous	Capacity	Material of Dynamos	No. and Description of Dynamos	Installation Fitted by
--------------------------------	---	---------------------	------------------------------	-----------------------------------	----------	---------------------	--------------------------------	------------------------

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.

S.W.G., Largest, No.

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

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

is unimpaired?

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?

Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation 15-11-21

Duration of Trial 24 hours.



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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?

Is the Workmanship throughout thoroughly satisfactory?

The above correctly describes the Machinery of the S.S.

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

(Main Engines)
(Auxiliaries & Boilers)

R.R. Court
W. G. Mallock

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

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. <i>3443</i> Sq. ft.	:	:	:
G.S. <i>198</i> "	:	:	:

DONKEY BOILERS.

H.S.	Sq. ft.	:	:
G.S.	"	:	:

~~\$191.00~~ \$ 191.00

ENGINES.

L.P.C. <i>116</i> Cub. ft.	:	:
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~~\$361.00~~ \$ 361.00

Testing, &c.

£ : :

Expenses

Total ~~\$552.00~~ \$ 504.00

It is submitted that this Report be approved,

Oliver King
Chief Surveyor.

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

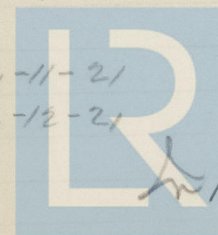
7th June 1932

Fees advised

14-11-21

Fees paid

24-12-21



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Lloyd's Register
Foundation
Secretary.

GENERAL CONSTRUCTION

Total

and the same shall be paid to the contractor for the same.

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It is submitted that this Report be approved.

Approved by the Committee for the Class of M.B.S. on the 11th day of June 1911.

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