

No. 1886

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. *1646* No. in Register Book *2905*

Wallacburg
S.S. *"JOHN J. RAMMACHER"*

Makers of Engines *EARLES S+E CO LTD.*

Works No. *644*

Makers of Main Boilers *EARLES S+E CO LTD.*

Works No. *644*

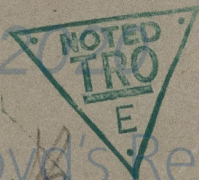
Makers of Donkey Boiler ☒

Works No. ☒

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1646 No. in Register Book 2905

Received at Head Office 18th July 1923

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Screw~~ ^{Single} Screw JOHN J. RAMMACHER

Official No. 147080 Port of Registry Hull.

Registered Owners

The Eastern Steamship Co. Ltd.
Port Colborne, Ontario, Canada.

Engines Built by Charles S & E Co. Ltd.

at

Hull.

Main Boilers Built by Charles S & E Co. Ltd.

at

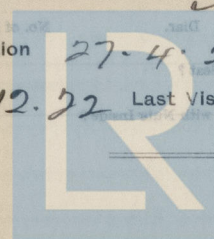
Hull.

Donkey " " ✓

at

Date of Completion 27-4-23

First Visit 11-12-22 Last Visit 27-4-23 Total Visits 36.



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RECIPROCATING ENGINES.

Works No. **644** No. of Sets **1** Description **Triple Expansion**
Surface Condensing

No. of Cylinders each Engine No. of Cranks
 Diars. of Cylinders Stroke
 Cubic feet in each L.P. Cylinder
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr?
 " " " each Receiver?
 Type of H.P. Valves,
 " 1st L.P. "
 " 2nd L.P. "
 " L.P. "
 " Valve Gear
 " Condenser Cooling Surface sq. ft.
 Diameter of Piston Rods (plain part) Screwed part (bottom of thread)
 Material
 Diar. of Connecting Rods (smallest part) Material
 " Crosshead Gudgeons Length of Bearing Material
 No. of Crosshead Bolts (each) Diar. over Thrd. Thrds. per inch Material
 " Crank Pin " " " "
 " Main Bearings Lengths
 " Bolts in each Diar. over Thread Threads per inch Material
 " Holding Down Bolts, each Engine Diar. 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?

Same as 643. Robert W. Pomeroy

Connecting Rods, Forged by

Piston " "

Crossheads, " "

Connecting Rods, Finished by

Piston " "

Crossheads, " "

Date of Harbour Trial **23.4.23.**" Trial Trip **26-4-23.**Trials run at **in River Humber**Were the Engines tested to full power under Sea-going conditions? **No.**

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

Revs. per min.

Pressure in 1st L.P. Receiver, ☒ lbs., 2nd L.P., ☒ lbs., L.P., ☒ lbs., Vacuum, ☒ ins.

Speed on Trial

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

data:—

Builders' estimated I.H.P.

950Revs. per min. **105**

Estimated Speed

9½ knots

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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 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

" 1st " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

" 2nd " Wheel

} Width

Pitch of Teeth

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 Revs. 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.



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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

" 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 "

" " 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

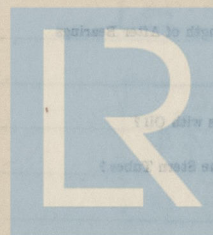
Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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SHAFTING.

Are the Crank Shafts Built or Solid ?

No. of Lengths in each Angle of Cranks

Diar. by Rule Actual In Way of Webs

" of Crank Pins Length between Webs

Greatest Width of Crank Webs Thickness

Least " " " " " "

Diar. of Keys in Crank Webs Length

" Dowels in Crank Pins Length Screwed or Plain

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

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diar. of Thrust Shafts at bottom of Collars No. of Collars

" " Forward Coupling At Aft Coupling

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 At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners ?

Diar. over Liners Length of After Bearings

Of what Material are the After Bearings composed ?

Are Means provided for lubricating the After Bearings with Oil ?

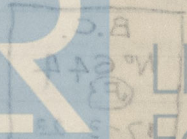
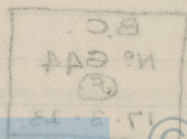
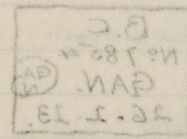
" " to prevent Sea Water entering the Stern Tubes ?

If sp. what Type is adopted?

Brooke 1885

gu

SKETCH OF CRANK SHAFT.



PUMPS, ETC.

No. of Air Pumps Diar. Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps Diar. Stroke

Type of " "

Diar. of " Suction from Sea

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

What other Pumps can circulate through Condenser?

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 Diar. Stroke

What other Pumps can feed the Boilers?

No. of Bilge Pumps on Main Engine Diar. Stroke

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

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Are all Bilge Suctions fitted with Roses?

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

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

Are they placed so as to be easily accessible?

Are the Discharge Chests placed above or below the Deep Load Line?

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

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the Outside?

BOILERS

Works No. 2

No. of Boilers 2

Single or Double ended Single ended

No. of Furnaces in each 2

Type of Furnace 2

Date when Plan approved 18.12.22

Approved Working Pressure 180 lbs

Hydraulic Test Pressure 220 lbs

Date of Hydraulic Test 10.4.23

When Safety Valves set 23.4.23

Pressure at which Valves were set 180 lbs + 2 lbs

Date of Installation Test 23.4.23

Maximum Temperature under Accommodation Test 180 lbs

System of Drafting Handwritten. Class copies

Plan Boilers to be worked separately 1/2 shown + 2 copies

Position of Plates Handwritten

Stay Bars Handwritten

Stays Handwritten

Accessories Handwritten

Questions referred to Plan of Boilers Handwritten

Length Handwritten

Pressure Test of Boilers Handwritten

No. of Water Spaces Handwritten

Water Spaces Handwritten

Test Cocks Handwritten



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BOILERS.

Works No. *644.*

No. of Boilers *2* Type *Multitubular Cylindrical*

Single or Double-ended *Single ended.*

No. of Furnaces in each *Two*

Type of Furnaces *Deighton Patent.*

Date when Plan approved *18. 12. 22.*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 "*

Date of Hydraulic Test *10. 4. 23.*

" when Safety Valves set *23. 4. 23.*

Pressure at which Valves were set *180 lbs + 5 lbs.*

Date of Accumulation Test *23. 4. 23.*

Maximum Pressure under Accumulation Test *190 lbs.*

System of Draught *Howden, Cloud ashpit.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *J. Spencer & Son Ltd.*

" Stay Bars *Ironingham*

" Rivets *Cooper & Turner Ltd.*

" Furnaces *Leeds Forge Co Ltd.*

Greatest Internal Diam. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

" " Grate " "

No. of Safety Valves each Boiler

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

" Test Cocks

No. of Water Gauges

" Salinometer Cocks

Same as 643

BC TEST
No 2797
320 lbs
WR 180 "
GAN.
10. 4. 23.



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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

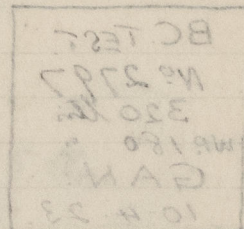
No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings



Thickness of End Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diap. of Straps Approved

in Boilers

Material of

How are Straps Secured?

Diar. and Thickness of Loose Washers on End Plates

Elvated

Width of Double Straps

Thickness of Middle Back End Plates Approved

in Boilers

Thickness of Double Straps in Wide Spaces between Flanges

Pitch of Straps

Diap. of Straps Approved

in Boilers

Material

Are Straps fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

in Boilers

Pitch of Straps at Wide Spaces between Flanges

Thickness of Double Straps

Thickness of Back End Plates at Bottom Approved

in Boilers



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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

Dist. of Stays Approved

" " " " in Boilers

Material "

Thickness of Front End 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 End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" " " "

Thickness of Stay Tubes

" " " "

External Diam. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside diam. of Furnaces

Length between Tube Plates

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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 O.C. Tops

Same as 642

Threads per Inch

Diar. of Screwed Stays Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Plates Approved

" " " in Boilers

Pitch of Screwed Stays in O.C. Stays

Diar. " " Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Plates Approved

" " " in Boilers

Pitch of Screwed Stays in O.C. Stays

Diar. " " Approved

" " " in Boilers

Material "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each W.P. Chamber

" " " " " "

Depth and Thickness of Girders

Material of Girders

No. of Staybolts each

No. of Girders in Bottom

Smallest lower main



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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.C. Sides

Diar. " " Approved

Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " Approved

Threads per Inch

" " " 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, each Boiler

Side of Lower Manholes

Same as 643

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Greatest Int. Diam.
Height
Height of Boiler Crown above Main Girth
Are Boiler Crown Flat or Dished?
Internal Radius of Dished Ends
Description of Beams in Boiler Crown
Diam. of Rivet Holes
Pitch
Height of Firebox Crown above Two Girths
Are Firebox Crown Flat or Dished?
External Radius of Dished Crown
Thickness of Plates
Material
Diam.
No. of Crown Stays
External Diam. of Firebox at Top
Bottom
Thickness of Plates
Thickness
No. of Water Tubes
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Compensation Ring
Heating surface, each Boiler
Plate thickness

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 Int. 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 Lifting Gear?

Date of Hydraulic Test Test Pressure

Date when Safety Valves set Pressure on Valves

MAIN STEAM PIPES.

No. of Pipes

Material

How are Pipes secured?

Internal Diar.

Thickness

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

How are Pipes secured?

Internal Diar.

Thickness

Date of Hydraulic Test

Test Pressure



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MAIN STEAM PIPES.

No. of Lengths

2

Material

Steel
Seamless

Brazed, Welded or Seamless

Internal Diam.

4"

Thickness

1/4"

How are Flanges secured?

Expanded mild-iron

Date of Hydraulic Test

18.4.23.

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

STEAM EVAPORATORS

No. of Lengths

Type

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

FEED WATER HEATERS

No. of Lengths

Type

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

FEED WATER FILTERS

No. of Lengths

Type

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness



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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.

| No. of Top Hole | No. of Bottom Hole | No. of Cylinder Cover Holes |
|-------------------|--------------------|-----------------------------|
| Coasting Valve | Main Working Valve | Valve Chest |
| Link Ring Valve | Feed Pump Valve | Feed Pump Valve |
| L.P. Piston Rings | L.P. Piston Rings | L.P. Piston Rings |
| Sparks | Sparks | Sparks |
| Safety Valve | Pin Bar | Feed Check Valve |
| Piston Rods | Connecting Rods | Valve Spindles |
| As Pump Rods | As Pump Rods | As Pump Rods |
| Oil | Oil | Oil |
| Crank Shafts | Crank Shafts | Crank Shafts |
| Propeller Shafts | Propeller Shafts | Propeller Shafts |
| Bottom Traps | Bottom Traps | Bottom Traps |

Same as 643-1885
Box 1885
ring



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OTHER ARTICLES OF SPARE GEAR:

SPARE GEAR:—
Same

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

Description

Time required to obtain this result

Temp. at this point

Temp. at this point

COMPARISON

No. of Steam Engines, each Machine

No. of Condensers

No. of Cylinders

Particulars of Storage in connection with Refrigerating Plant and quantity needed by Refrigerating Machine

or Independently

System of Refrigeration

Refrigerant

Articles of Spare Gear for Refrigerating Plant carried on board

Agencies for this plant between the factory and the ship

Refrigerating Plant required to keep the ship cool

Refrigerating Plant required to keep the ship cool

Date of Report under Working Conditions

ELECTRIC LIGHTING.

Installation Fitted by

Charles S & E Co Ld

No. and Description of Dynamos

Makers of Dynamos

Capacity " Amperes, at Volts, Revols. per Min.

Current Alternating or 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:—

| Circuit. | Number of Lights. | Candle Power. | Current Required. Amps. | Size of Conductor. | Current Density. | Conductivity of Conductor. | Insulation Resistance per Mile. |
|----------|-------------------|---------------|-------------------------|--------------------|------------------|----------------------------|---------------------------------|
|----------|-------------------|---------------|-------------------------|--------------------|------------------|----------------------------|---------------------------------|

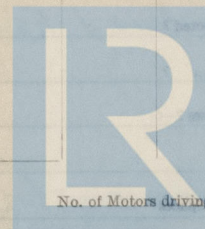
Same as 600

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters



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

Are Out-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 Size?

Are all Switches and Out-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 26.4.23 Duration of Trial 6 hr

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 Dynamo, Motor, Main and Branch Cables, as placed in the Compartment are properly*

Selected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Installation Resistance over the whole system been tested?

What does the Resistance amount to?

Is the Installation supplied with a Voltmeter?

as a means of

Date of Trial of complete Installation

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

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and

trustworthy?

On the Engine Board, in the Office of Main Engineer

On the

On the

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.*

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and

trustworthy?

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

JOHN J. RAMMACHER

as ascertained by *me* from personal examination

What other information is provided in the

On the

On the

On the

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

Fees—

MAIN BOILERS.

H.S. *2940* Sq. ft. £ : s. d.

G.S. *76* " : : :

DONKEY BOILERS.

H.S. *✓* Sq. ft. : : :

G.S. *✓* " : : :

£ : : :

ENGINES.

L.P.C. *29* Cub. ft. : : :

£ : : :

Testing, &c. ... : : :

£ : : :

Expenses ... : : :

Total ... £ : : :

It is submitted that this Report be approved,

John Rammacher
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *21st November 1913.*

Fees advised

Fees paid

© 2020

Lloyd's Register
Foundation
Secretary.

GENERAL CONSTRUCTION

Foot-

The following is a list of the new construction of the building, which was completed in 1923.

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The following is a list of the new construction of the building, which was completed in 1923.

11.12.22

13.12.22

22.12.22

29.12.22

3.1.23

9.1.23

15.1.23

17.1.23

23.1.23

25.1.23

29.1.23

5.2.23

6.2.23

12.2.23

14.2.23

19.2.23

26.2.23

1.3.23

6.3.23

9.3.23

12.3.23

16.3.23

19.3.23

22.3.23

27.3.23

7.4.23

9.4.23

10.4.23

16.4.23

17.4.23

18.4.23

19.4.23

20.4.23

23.4.23

26.4.23

27.4.23



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17. N. 23.

EE: N-P1

25.51.19

82.1.2

28. 1. 9

12.1.21

17-1-53

28. 1. 22

ES - 1 - 62

22. 1. 23.

12. 2. 27

178. 4. 111

87. C. D.

cc. 8. p.

11/11/11

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