

No. 2103

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1882 No. in Register Book 3198

BARRIE

S.S. ROBERT P. KERNAN

Makers of Engines E. J. CODD & CO. LTD

Works No. 324

Makers of Main Boilers COLLINGWOOD SBCo.

Works No. 215?

Makers of Donkey Boiler

Works No.

MACHINERY



© 2020

Lloyd's Register
Foundation

002568-002576-0079

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1882 No. in Register Book 3198

Received at Head Office 27th August 1925

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

"Robert P. Kernan"

Official No.

Port of Registry

Registered Owners

Geo Hall Coal & Shipping Corp
190 St James St. Montreal. Que.

Engines Built by

E J Codd & Co Ltd
at Baltimore Md. U.S.A.

Main Boilers Built by

Bollingwood S.B. Co Ltd
at Bollingwood, Ont.

Donkey

at

Date of Completion

First Visit 13. 4. 25

Last Visit 16. 7. 25

Total Visits 9.



© 2020

Lloyd's Register
Foundation

RECIPROCATING ENGINES.

Works No. *9/ EFC 324* No. of Sets *1* Description *Triple Expansion 3 Cylinder Surface Condensing 3 Crank.*

No. of Cylinders each Engine *Three* No. of Cranks *Three*
 Diars. of Cylinders *15½" - 26" - 44"* Stroke *26"*
 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, *Piston*
 " 1st L.P. " *Piston*
 " 2nd L.P. "
 " L.P. " *Slide*
 " Valve Gear *Stephenson Link Motion*
 " Condenser *Surface Condensing* Cooling Surface sq. ft.
 Diameter of Piston Rods (plain part) *3¾"* Screwed part (bottom of thread) *2¼"*
 Material " *Ingot Steel*
 Diar. of Connecting Rods (smallest part) *3¾"* Material *J.S.*
 " Crosshead Gudgeons *4½"* Length of Bearing *5⅝"* Material *J.S.*
 No. of Crosshead Bolts (each) *4* Diar. over Thrd. *2½"* Thrds. per inch *4.5* Material *F.S.*
 " Crank Pin " " *2* " *2½"* " *4.5* " *F.S.*
 " Main Bearings *6* Lengths *9½"*
 " Bolts in each *2* Diar. over Thread *2½"* Threads per inch *4.5* Material *F.S.*
 " Holding Down Bolts, each Engine *75* Diar. *1⅛"* No. of Metal Checks *75*
 Are the Engines bolted to the Tank Top or to a Built Seat? *To 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 *Sizer Forge Co. Buffalo, N.Y.*
 Piston " " *Laclede Steel Co. St. Louis, Ill.*
 Crossheads, *Sizer Forge Co. Buffalo, N.Y.*
 Connecting Rods, Finished by *E. J. Codd Co Ltd.*
 Piston " " *E. J. Codd Co Ltd.*
 Crossheads, " *E. J. Codd Co Ltd.*
 Date of Harbour Trial *July 15th 1925.*
 " Trial Trip *July 16th 1925*
 Trials run at *Collingwood, Georgian Bay.*
 Were the Engines tested to full power under Sea-going conditions? *Yes.*
 If so, what was the L.H.P.? *830* Revols. per min. *117.*
 Pressure in 1st L.P. Receiver, *57* lbs., 2nd L.P., — lbs., L.P., *8* lbs., Vacuum, *26* ins.
 Speed on Trial *10.35 Knots.*
 If the Conditions on Trial were such that full power records were not obtained give the following estimated data:—
 Builders' estimated L.H.P. *700.* Revols. per min.
 Estimated Speed



© 2020

Lloyd's Register
Foundation

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

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 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 Splindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

No. of Bearings

Actual

Diar. of Intermediate Bearings by Hole

Diar. of Each Class

Actual

No. of Holes each Coupling

No. of Couplings

Actual

Diar. of Propeller Shafts by Hole

Are Propeller Shafts fitted with Continuous Form Liners?

Diar. over Liners

Of what material are the After Bearings composed?

Are Liners covered on the inside by the After Bearings with Oil?

To prevent the wear during the Steam Trials?

Are the After Bearings fitted with Oil?



© 2020

Lloyd's Register
Foundation

SHAFTING.

Are the Crank Shafts Built or Solid? *Built*

No. of Lengths in each *1* Angle of Cranks *120°*

Diar. by Rule *8 3/8"* Actual *8 3/8"* In Way of Webs *8 3/8"*

" of Crank Pins *8 3/8"* Length between Webs *10"*

Greatest Width of Crank Webs *17"* Thickness *6 1/2" - 7"*

Least " " *17"* " " " "

Diar. of Keys in Crank Webs *none* Length " " " "

" Dowels in Crank Pins *0* Length " " " " Screwed or Plain

No. of Bolts each Coupling *6* Diar. at Mid Length *2 3/8"* Diar. of Pitch Circle *13"*

Greatest Distance from Edge of Main Bearing to Crank Web *1/4"*

Type of Thrust Blocks *Trough Horse Shoe*

No. " Rings *6*

Diar. of Thrust Shafts at bottom of Collars *8 3/8"* No. of Collars *5*

" " Forward Coupling *8 3/8"* At Aft Coupling *8 3/8"*

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

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

Diar. of Propeller Shafts by Rule *8 1/2"* Actual *8 1/2"* At Couplings *8 1/2"*

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

Diar. over Liners *10 1/2"* Length of After Bearings *3-6"*

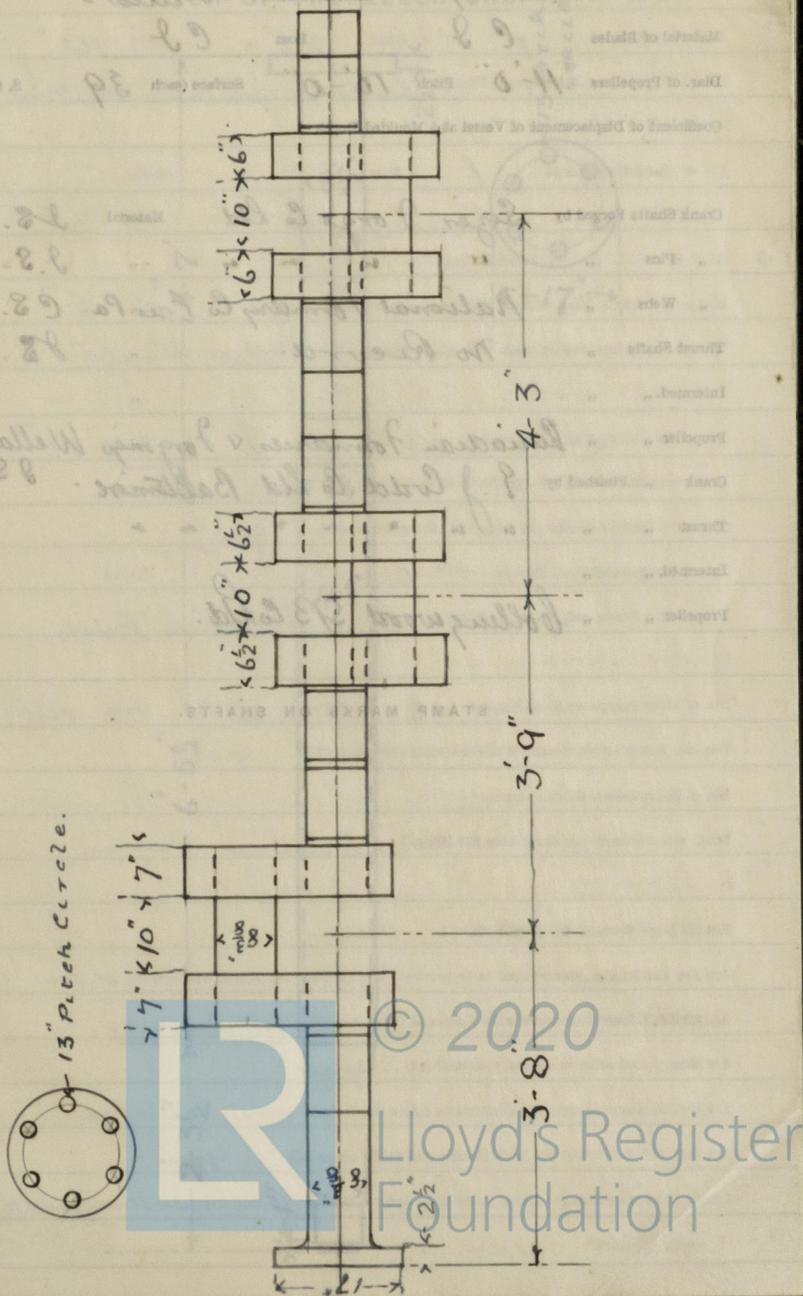
Of what Material are the After Bearings composed? *Brass with Lignum Vitae*

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?

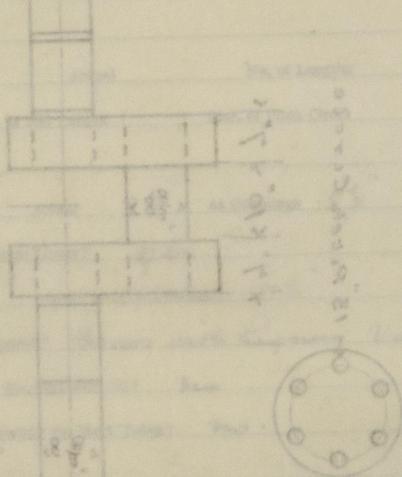
SKETCH OF CRANK SHAFT.



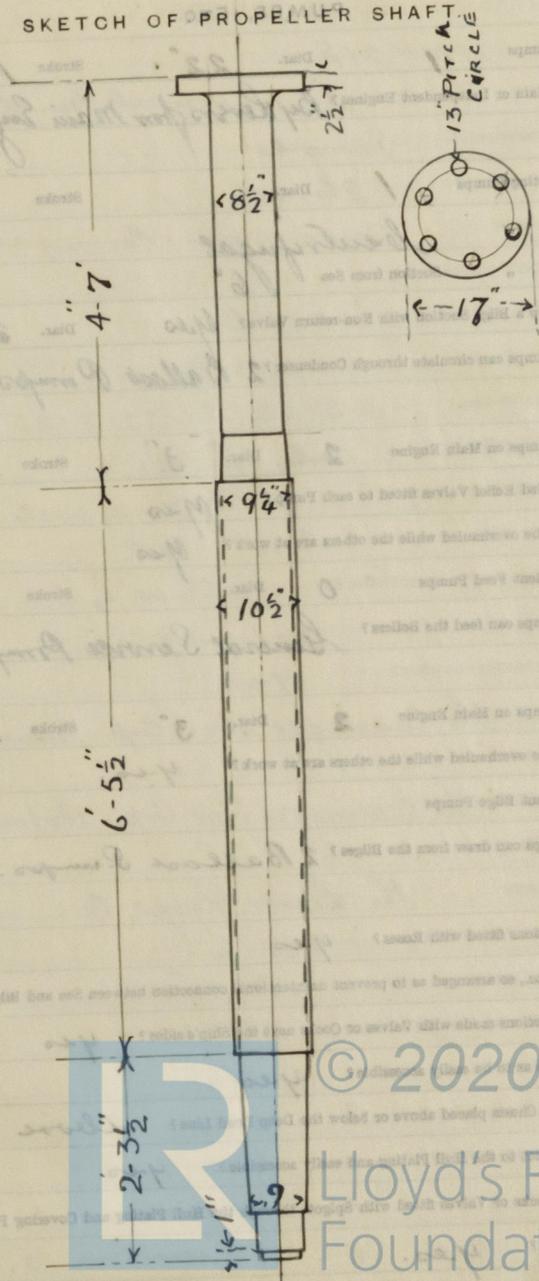
No. of Blades each Propeller **4** Fitted or Solid? *Fitted -*
 Material of Blades **CS** Boss **CS**
 Diam. of Propellers **11'-0"** Pitch **10'-0"** Surface (each **39** S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by *Sizer Forge Co Ltd* Material **IS.**
 " Pins " " " " " **I.S.**
 " Webs " *National Foundry Co Erie Pa.* **CS.**
 Thrust Shafts " *No Record.* " **IS.**
 Intermed. " " " " " "
 Propeller " " *Canadian Foundries & Forgings Welland Ont*
 Crank " Finished by *J. J. Codd Co Ltd Baltimore.* **IS.**
 Thrust " " " " " " " "
 Intermed. " " " " " " " "
 Propeller " " *Collingwood SBC Ltd.*

STAMP MARKS ON SHAFTS.



SKETCH OF PROPELLER SHAFT



© 2020

Lloyd's Register
 Foundation

BOILERS.

Works No. *214 - 215*

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

Single or Double-ended *Single*

No. of Furnaces in each *Three*

Type of Furnaces *Morrison Corrugated.*

Date when Plan approved

Approved Working Pressure *195 lbs.*

Hydraulic Test Pressure *350 lbs.*

Date of Hydraulic Test *8.5.25 22.5.25*

when Safety Valves set *July 15th 1925.*

Pressure at which Valves were set *195 lbs per sq. inch.*

Date of Accumulation Test *July 15th 1925.*

Maximum Pressure under Accumulation Test *198 lbs per sq. in.*

System of Draught *Natural.*

Can Boilers be worked separately? *Yes*

Makers of Plates *The Carnegie Steel Corp. Pittsburgh Pa.*

Stay Bars *The Carnegie Steel Corp. Holmslea Pa.*

Rivets

Furnaces *The Leeds Forge Co.*

Greatest Internal Diam. of Boilers *12'-6"*

Length *16'-10"*

Square Feet of Heating Surface each Boiler *1573*

Grate *45'*

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 *1* No. of Water Gauges *1*

Test Cocks *3* Salinometer Cocks *1*



© 2020

Lloyd's Register
Foundation

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? *By Pipes*

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

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

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

Plates in each Strake *Two*

Thickness of Shell Plates Approved *1 1/8"*

" " in Boilers *1 1/8"*

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 *8 7/8"*

" inside *1"*

Are Longitudinal Seams Hand or Machine Riveted? *Machine*

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

No. of Rivets in a Pitch *5*

Diar. of Rivet Holes *1 3/16"* Pitch *7 1/16"*

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

Are these Seams Hand or Machine Riveted? *-*

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

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

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

Diar. of Rivet Holes *1 3/16"* Pitch *3 3/4"*

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

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

Diar. of Rivet Holes *1 3/16"* Pitch *Hand. 3 3/4"*

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

Dimensions of Compensating Rings *34" x 31"*



© 2020

Lloyd's Register
Foundation

Thickness of End Plates in Steam Space Approved

15"
76

" " " " " in Boilers

15"
76

Pitch of Steam Space Stays

14 1/2" + 13 3/4"

Diar. " " " " Approved 2 1/4" Threads per Inch

" " " " " in Boilers

2 1/4"

Material of " " "

Steel

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

5/8"

" " " " " in Boilers

5/8"

Thickness of Doublings in Wide Spaces between Fireboxes

-

Pitch of Stays at

-

Diar. of Stays Approved Threads per Inch

-

" " in Boilers

-

Material "

Steel

Are Stays fitted with Nuts outside?

-

Thickness of Back End Plates at Bottom Approved

5/8"

" " " " " in Boilers

5/8"

Pitch of Stays at Wide Spaces between Fireboxes

-

Thickness of Doublings in

-

Thickness of Front End Plates at Bottom Approved

3/4"

" " " " " in Boilers

3/4"

No. of Longitudinal Stays in Spaces between Furnaces

6.



© 2020

Lloyd's Register Foundation

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

Thickness of Front Tube Plates Approved $\frac{3}{4}$ "
 " " " " in Boilers $\frac{3}{4}$ "
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $8" \times 8\frac{3}{4}"$
 Thickness of Doublings in " " "
 " Stay Tubes at " " " $\frac{9}{32}$ "
 Are Stay Tubes fitted with Nuts at Front End? No

Thickness of Back Tube Plates Approved $\frac{3}{4}$ "
 " " " in Boilers $\frac{3}{4}$ "
 Pitch of Stay Tubes in Back Tube Plates $9" \times 8\frac{3}{4}"$
 " Plain " $4\frac{1}{2}" \times 4\frac{3}{8}"$
 Thickness of Stay Tubes $\frac{9}{32}$
 " Plain " .15
 External Diar. of Tubes Steel $3\frac{1}{4}"$
 Material " Steel.

Thickness of Furnace Plates Approved .51
 " " " in Boilers .51
 Smallest outside Diar. of Furnaces .37"
 Length between Tube Plates $7'-4\frac{1}{2}"$

Width of Combustion Chambers (Front to Back) $3\frac{1}{2}"$ One.
 Thickness of " " Tops Approved $\frac{5}{8}"$
 " " " " in Boilers $\frac{5}{8}"$
 Pitch of Screwed Stays in O.C. Tops $7\frac{1}{2}" \times 6\frac{1}{8}"$



© 2020

Lloyd's Register
Foundation

Diar. of Screwed Stays Approved

 $1\frac{3}{8}$ "

Threads per Inch

10

" " " in Boilers

 $1\frac{3}{8}$ "

Material " "

Steel.

Thickness of Combustion Chamber Sides Approved

 $\frac{5}{8}$ "

" " " in Boilers

 $\frac{5}{8}$ "

Pitch of Screwed Stays in C.C. Sides

 $6\frac{3}{8}$ " x $5\frac{3}{8}$ "

Diar. " " Approved

 $1\frac{1}{4}$ "

Threads per Inch

10

" " " in Boilers

 $1\frac{1}{4}$ "

Material " "

Steel.

Thickness of Combustion Chamber Backs Approved

 $\frac{5}{8}$ "

" " " in Boilers

 $\frac{5}{8}$ "

Pitch of Screwed Stays in C.C. Backs

 $6\frac{3}{8}$ " x $6\frac{1}{16}$ "

Diar. " " Approved

 $1\frac{1}{4}$ "

Threads per Inch

10

" " " in Boilers

 $1\frac{1}{4}$ "

Material " "

Steel.

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

No. Marginal Stays Only.

Thickness of Combustion Chamber Bottoms

 $\frac{5}{8}$ "

No. of Girders over each Wing Chamber

1

" " " Centre "

14

Depth and Thickness of Girders

 $8\frac{1}{4}$ " x $1\frac{1}{4}$ "

Material of Girders

Steel.

No. of Stays in each

Three

No. of Tubes, each Boiler

200

Size of Lower Manholes

 15 " x 11 "

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Height
Height of Boiler Crown above Fire Grate
Are Boiler Crown Flat or Dished?
Internal Radius of Dished Ends
Thickness of Plates
Description of Stays in Boiler Crown
Diam. of Rivet Holes
Length of Rivet Crown above Fire Grate
Are Rivet Crown Flat or Dished?
External Radius of Dished Crown
Diam. of Crown Stays
Internal Diam. of Rivets at Top
No. of Water Tubes
Material of Water Tubes
Diam. of Manhole in Shell
Description of Compensating Ring
Heating Surface each Boiler

SUPERHEATERS

Description of Superheater

Where situated?

© 2020



Lloyd's Register
Foundation

VERTICAL DONKEY BOILERS.

No. of Boilers *13* Type *Vertical*

Greatest Int. Diar. *36"* Height *12'*

Height of Boiler Crown above Fire Grate *2'*

Are Boiler Crowns Flat or Dished? *Flat*

Internal Radius of Dished Ends *36"* Thickness of Plates *1/2"*

Description of Seams in Boiler Crowns *Butt & Square*

Diar. of Rivet Holes *1 1/2"* Pitch *2"* Width of Overlap *1/2"*

Height of Firebox Crowns above Fire Grate *2'*

Are Firebox Crowns Flat or Dished? *Flat*

External Radius of Dished Crowns *36"* Thickness of Plates *1/2"*

No. of Crown Stays *12* Diar. *1 1/2"* Material *Steel*

External Diar. of Firebox at Top *36"* Bottom *36"* Thickness of Plates *1/2"*

No. of Water Tubes *12* Ext. Diar. *1 1/2"* Thickness *1/2"*

Material of Water Tubes *Steel*

Size of Manhole in Shell *10"*

Dimensions of Compensating Ring *Steel*

Heating Surface, each Boiler *100* Grate Surface *100*

SUPERHEATERS.

Description of Superheaters

Where situated? *114'*Which Boilers are connected to Superheaters? *8 1/2" x 1 1/2"*Can Superheaters be shut off while Boilers are working? *Steel*No. of Safety Valves on each Superheater *2* Diar. *1 1/2"*

Are " " fitted with Easing Gear?

Date of Hydraulic Test *20* Test Pressure *200*Date when Safety Valves set *15* Pressure on Valves *150*

MAIN STEAM PIPES

No. of Pipes *2*

Material *Steel*

Length, Width or Diameter *2'*

Internal Diar. *1 1/2"*

Thickness *1/2"*

How are Joints made? *Butt & Square*

Date of Hydraulic Test *14.7.22*

Test Pressure *288 lbs.*

No. of Pipes *2*

Material *Steel*

Length, Width or Diameter *2'*

Internal Diar. *1 1/2"*

Thickness *1/2"*

How are Joints made? *Butt & Square*

Date of Hydraulic Test *14.7.22*

Test Pressure *288 lbs.*



© 2020

Lloyd's Register
Foundation

EVAPORATORS.

No. 0 Type 2 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 Auxiliary Steam
 Makers Davis Engineering Corporation Brooklyn, N.Y.
 Working Pressure Test Pressure Date of Test

FEED WATER FILTERS.

No. 1 Type Open with Fiber Strainers
 Makers Colleywood S/B Co Ltd.
 Working Pressure Open Test Pressure Date of Test

LIST OF DONKEY PUMPS.

- 2 Duplex Vertical Ballast Pumps by Dean Bros
 Indianapolis
 1 Horizontal Duplex General Service Pump
 makers Buffalo Pump Co.
 1 Horizontal Duplex Fresh Water Pump
 makers Worthington
 1 Horizontal Duplex Sanitary Pump
 makers Worthington
 1 Horizontal Simplex Ice Machine Pump.
 1 Drysdale Centrifugal Main Circulation
 Pump.



© 2020

Lloyd's Register
Foundation

LIST OF SPARE GEAR

No. of Top End Bolts.	2	No. of Bot. End Bolts.	2	No. of Cylinder Cover Studs	12
" Coupling Bolts	6	" Main Bearing Bolts	2	" Valve Chest "	
" Junk Ring Bolts	6	" Feed Pump Valves	2	" Bilge Pump Valves	2
" H.P. Piston Rings	1 set	" I.P. Piston Rings	1 set	" L.P. Piston Rings	
" " Springs		" " Springs		" " Springs	6
" Safety Valve "	0	" Fire Bars	100	" Feed Check Valves	2
" Piston Rods	0	" Connecting Rods	0	" Valve Spindles	0
" Air Pump Rods	0	" Air Pump Buckets	0	" Air Pump Valves	0
" Cr. "	0	" Cr. "	0	" Cr. "	0
" Crank Shafts	0	" Crank Pin Bushes	0	" Crosshead Bushes	0
" Propeller Shafts	0	" Propellers	0	" Propeller Blades	2
" Boiler Tubes	6	" Condenser Tubes	12	" Condenser Ferrules	24

OTHER ARTICLES OF SPARE GEAR:—

1 cwt assorted bolts & nuts.
gumtins & packing.

REFRIGERATORS



© 2020

Lloyd's Register
Foundation

REFRIGERATORS.

No. of Machines 2 Capacity of each 2
 Makers 6
 Description
 No. of Steam Cylinders, each Machine No. of Compressors No. of Cranks 2
 Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently
 1 cut mounted balls & nuts
 gaskets & packing

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.
Navigator 6	50W	110		
Engine Room Top 8	100W	110		
Deck 13	50W	110		
Boiler Room 8	50W	110		
Officer Cabin 52	50W	110		
Port Cabin 31	50W	110		
Deck Light 11	50W	110		

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



© 2020

Lloyd's Register Foundation

ELECTRIC LIGHTING.

Installation Fitted by

Collingwood S B Co. Ltd.

No. and Description of Dynamos

1. Direct Current. Westinghouse.

Makers of Dynamos

Westinghouse Electric Co. Ltd.

Capacity

10 KW Amperes, at 110 Volts, 100 Revols. per Min. 550

Current Alternating or Continuous

Continuous.

Single or Double Wire System

Double.

Position of Dynamos

Engine Room tops. After end.

Main Switch Board

" " " " "

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

Eight.

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.
Navigation	6	50W	4	# 10			
Engine Room Top	8	100W	6	# 14			
" " Lower	13	50W	6	# 14			
Boiler Room	8	50W	4	# 14			
After Cabin	32	50W	10	# 8		Feeding Panel board with 4 circuits # 14 Conductor	
Fore Cabin	31	50W	9	# 8		Feeding Panel board with 6 circuits # 14 Conductor	
After Peak	2	75W	3	# 14.			
Deck Lights	4	75W	4	# 10			

Total No. of Lights 104

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

© 2020

Lloyd's Register
Foundation

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

Engineroom Intraire 6 Switches
 Forward Cabin Hall on Main Deck 6 Switches
 Tell tale for Navigation Lights & Wheel House.

Are Cut-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. #14 S.W.G., Largest, No. 00 S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

in Conduit

" Saloons, State Rooms, &c., "

Moulding & Conduit

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

in Conduits

(2) " " passing through Bunkers or Cargo Spaces

in Conduits

(3) " " Deck Beams or Bulkheads

in Conduits

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?

Yes

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

No Single wire

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?

Ohms.

Is the Installation supplied with a Voltmeter?

Yes

" " " " an Amperemeter?

Yes

Date of Trial of complete Installation

15. 7. 25

Duration of Trial

10 hours.

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

Yes.



© 2020

Lloyd's Register
 Foundation

GENERAL CONSTRUCTION.

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

Approved Plans?

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor.

Main Engines built to the Requirements and under the Inspection of the American Bureau of Shipping.

Main Boilers built in accordance with the requirements of the British Corporation.

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

H. W. Morris.
 Engineer 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 ... £		£	:	:

Charged by Mount

It is submitted that this Report be approved,

Joe Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *23rd September '25*

Fees advised

Fees paid



© 2020

Lloyd's Register
 Foundation
 Secretary.

GENERAL CONSTRUCTION

MAIN BOILER

Approved by the Committee for the Class of M.E.S. on the 25th of 1911

25th 1911

Main Engine built in accordance with the requirements of the British Corporation of Shipping

Main Boiler built in accordance with the requirements of the British Corporation of Shipping

25th 1911

Total

It is admitted that this Report be approved

Approved by the Committee for the Class of M.E.S. on the 25th of 1911

25th 1911

Approved by the Committee for the Class of M.E.S. on the 25th of 1911

Approved by the Committee for the Class of M.E.S. on the 25th of 1911

25th 1911



© 2020

Lloyd's Register Foundation



© 2020

Lloyd's Register
Foundation



© 2020

Lloyd's Register
Foundation