

No. 1535

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1454 No. in Register Book 2606

S.S. "El Montecillo."

Makers of Engines Dunlop Bremner & Co.

Works No. 550

Makers of Main Boilers J. G. Kincaid & Co.

Works No. 84 C.

Makers of Donkey Boiler none

Works No. ✓

MACHINERY.



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Foundation

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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office *7th January 1931*

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ *Double* Screw "El Montecillo"

Official No. ☒ Port of Registry *Bilbao*
Registered Owners *Compañía General de Navegación*
Bilbao

Engines Built by *Dunlop Bremner & Co. Ltd*
at *Port Glasgow*

Main Boilers Built by *J. G. Kincaid & Co. Ltd*
at *Greenock*

Donkey " " ☒
at ☒

Date of Completion

First Visit *2-10-19* Last Visit *16/12/20* Total Visits *84*

RECIPROCATING ENGINES.

Works No. **550** No. of Sets **1** Description **Triple expansion,**
surface condensing.

No. of Cylinders each Engine **3** No. of Cranks **3**
 Diars. of Cylinders **23", 38", 63"** Stroke **45"**
 Cubic feet in each L.P. Cylinder **81.18**
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cyl.? **yes.**
 " " " each Receiver? **yes.**
 Type of H.P. Valves, **Piston**
 " 1st L.P. " **Andrews balanced.**
 " 2nd L.P. " **✓**
 " L.P. " **Double ported slide.**
 " Valve Gear **Stephenson**
 " Condenser **Surface** Cooling Surface **2100** sq. ft.
 Diameter of Piston Rods (plain part) **6"** Screwed part (bottom of thread) **4.284"**
 Material " **I.S.**
 Diar. of Connecting Rods (smallest part) **6"** Material **I.S.**
 " Crosshead Gudgeons **6½"** Length of Bearing **6½"** Material "
 No. of Crosshead Bolts (each) **4** Diar. over Thrd. **2⅝"** Thrds. per inch **6** Material **Steel**
 " Crank Pin " **2** " **3½"** " **6** " "
 " Main Bearings **6** Lengths **13½"**
 " Bolts in each **2** Diar. over Thread **2¾"** Threads per inch **5** Material "
 " Holding Down Bolts, each Engine **13¼"** Diar. **1¼"** No. of Metal Chocks
 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

Dunlop Bremner & Co.

Piston " "

Crossheads, " "

Connecting Rods, Finished by "

Piston " "

Crossheads, " "

Date of Harbour Trial

10-12-20.

" Trial Trip

16-12-20.

Trials run at

Firth of Clyde.

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

no. "Light ship."

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

Revs. per min. **84**Pressure in H.P. Receiver, **180** lbs., L.P., **45** lbs., L.P., **6** lbs., Vacuum, **26** ins.

Speed on Trial

10.4½ 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.

1800

Revs. per min.

42

Estimated Speed

10½ 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?

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 ENGINE

Works No. _____
 Type of Turbine _____
 No. of H.P. Turbines _____
 No. of I.P. _____
 No. of A.P. _____

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

If through or Double Reduction Gear employed?

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

" " " " " "

" " " " " "

1st Reduction Gear

" " " " " "

Turbine Shaft

Total Shaft Horse Power

Date of Harbour Trial

1st Trial

2nd Trial

Speed in Knots

Turbine shafts fixed in

Frames fixed or cast in

Reduction Gear Shafts fixed in

Frames fixed or cast in

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 Turbines or through Gearing?

If through or Double Reduction Gear employed?

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

" " " " " "

No. of Motors driving Propeller Shafts

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

If through or Double Reduction Gear employed?

Description of Motors

Revolutions per hour of Generators at Full Power

" " " " " "

" " " " " "

Total Shaft Horse Power

Date of Harbour Trial



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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

Revol. 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



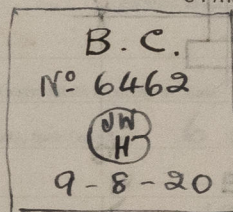
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No. of Blades each Propeller **4** Fitted or Solid? **Solid**
 Material of Blades **C. I.** Boss **C. I.**
 Diam. of Propellers **16'-6"** Pitch **16'-3"** Surface (each) **82** S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth **.49.**

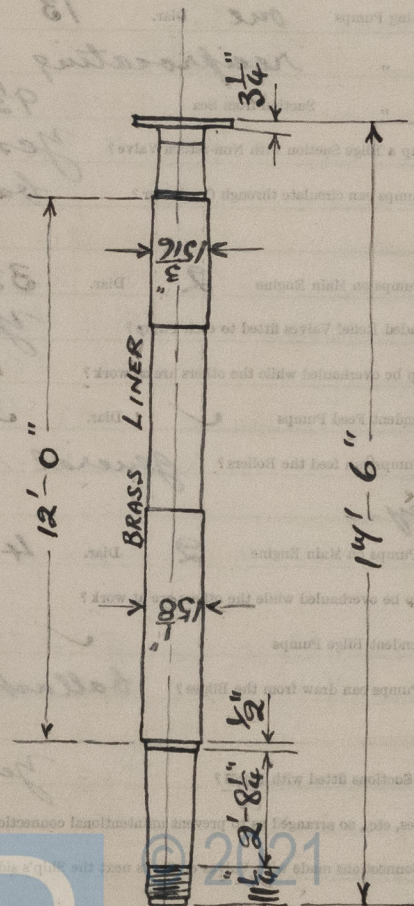
Crank Shafts Forged by **Langley Forge Co.** Material **I. S.**
 „ Pins „ „ „ „
 „ Webs „ **P. McCallum Sons Ltd** „ „
 Thrust Shafts „ **Langley Forge** (apart) „ „
 Intermed. „ „ „ „ „
 Propeller „ „ „ „ „
 Crank „ Finished by **Dunlop Bremner & Co.**
 Thrust „ „ „ „ „
 Intermed. „ „ „ „ „
 Propeller „ „ „ „ „

STAMP MARKS ON SHAFTS.



*crank, thrust, intermediate,
 & propeller shafting.*

SKETCH OF PROPELLER SHAFT.



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PUMPS, ETC. OF MOTHER

No. of Air Pumps *one* Diar. *20"* Stroke *24"*

Worked by Main or Independent Engines? *main*

No. of Circulating Pumps *one* Diar. *13"* Stroke *24"*

Type of " *reciprocating*

Diar. of " Suction from Sea *9½"*

Has each Pump a Bilge Suction with Non-return Valve? *yes.* Diar. *4"*

What other Pumps can circulate through Condenser? *ballast.*

No. of Feed Pumps on Main Engine *2* Diar. *3½"* Stroke *24"*

Are Spring-loaded Relief Valves fitted to each Pump? *yes.*

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? *general service & harbour donkey.*

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 *✓*

What other Pumps can draw from the Bilges? *ballast & circulating.*

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? *"*

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? *yes.*

BOILERS

18

Works No.

No. of Boilers

Height or Thickness

No. of Rivets in each

Type of Rivets

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

When Safety Valves set

Pressure at which Valves were set

Date of Accommodation Test

Maximum Pressure under Accommodation Test

System of Drafting

Can Boilers be worked separately?

Places of Fixing

Size of Base

Height

Location

Greatest Internal Diam. of Boilers

Length

Pressure Test of Heating Surface

Gate

No. of Rivets in each

Are the Rivets fitted with Metal

No. of Rivets in each

Test Cocks



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BOILERS.

Works No. **84 c**

No. of Boilers **3** Type **Marine return tube.**

Single or Double-ended **Single**

No. of Furnaces in each **3**

Type of Furnaces **Deighton**

Date when Plan approved **26-9-19**

Approved Working Pressure **180 lb./sq"**

Hydraulic Test Pressure **320 "**

Date of Hydraulic Test **14-9-20**

" when Safety Valves set **10-12-20.**

Pressure at which Valves were set **184 lb./sq"**

Date of Accumulation Test **10-12-20.**

Maximum Pressure under Accumulation Test **188 lb./sq"**

System of Draught **Natural.**

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

Makers of Plates **Shell, flange & wrapper :- Port Talbot Steel Co.**

" Stay Bars **Steel Co. of Scotland.**

" Rivets **N.W. Rivet, Bolt & Nut Factory, Ltd.**

" Furnaces **Thos. Pigott & Co. Ltd.**

Greatest Internal Diam. of Boilers **13'-9"**

" " Length " **10'-6"**

Square Feet of Heating Surface each Boiler **1666 sq. ft.**

" " Grate " " **51 "**

No. of Safety Valves each Boiler **2** Diam. **2 3/4"**

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

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

" Test Cocks " **3** " Salinometer **valve one.**

B.C. TEST.

No 3823

320 lbs.

WP. 180 "

(JWH)

J.W.H.

14-9-20



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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

Pillars.
Pipes.

yes.
yes: on end.

one

3
1 1/8"

"

Steel.

Butt.

Double.

yes.
1/8"

1"

Machine.

Treble.

5

4 7/8"

✓

✓

✓

2

Machine.

3-28"

2

Machine.

3-28"

16" x 12"

3'-3" x 2'-3"

(Sketch of

ring in Report Book on "El Condado".)



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Thickness of End Plates in Steam Space Approved

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

" " " " " in Boilers

Pitch of Steam Space Stays

 $1'-5\frac{1}{2}" \times 1'-8\frac{1}{2}"$

Diar. " " " " Approved 3" Threads per Inch

6

" " " " " in Boilers

Material of " " "

steel.

How are Stays Secured?

nuts & washers inside & outside.

Diar. and Thickness of Loose Washers on End Plates

 $9" \times \frac{27}{32}"$

Riveted

✓

Width " " Doubling Strips

✓

Thickness of Middle Back End Plates Approved

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

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

✓

Pitch of Stays at

 $8\frac{3}{4}" \times 13\frac{3}{8}"$ Diar. of Stays Approved $1\frac{3}{4}"$ Threads per Inch

11

" " " " " in Boilers

Material "

Steel.

Are Stays fitted with Nuts outside?

yes.

Thickness of Back End Plates at Bottom Approved

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

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

 $9" \times 1'-4"$

Thickness of Doublings in

✓

Thickness of Front End Plates at Bottom Approved

 $\frac{27}{32}"$

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

3 (each space.)

Thickness of End Plates Approved

" " " " " in Boilers

Pitch of Steam Space Stays

" " " " " in Boilers

Diar. " " " " Approved

" " " " " in Boilers

" " " " " in Boilers

" " " " " in Boilers

Material of " " "

" " " " " in Boilers

How are Stays Secured?

" " " " " in Boilers

Diar. and Thickness of Loose Washers on End Plates

" " " " " in Boilers

Riveted

" " " " " in Boilers

Width " " Doubling Strips

" " " " " in Boilers

Thickness of Middle Back End Plates Approved

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

" " " " " in Boilers

Pitch of Stays at

" " " " " in Boilers

Diar. of Stays Approved

" " " " " in Boilers

" " " " " in Boilers

" " " " " in Boilers

Material "

" " " " " in Boilers

Are Stays fitted with Nuts outside?

" " " " " in Boilers

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

" " " " " in Boilers

Thickness of Doublings in

" " " " " in Boilers

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

" " " " " in Boilers



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Diar. of Screwed Stays Approved $1\frac{1}{2}"$ Threads per Inch 11
 " " " in Boilers " "
 Material " " steel

Thickness of Combustion Chamber Sides Approved $\frac{11}{16}"$
 " " " in Boilers " "
 Pitch of Screwed Stays in O.C. Sides $8" \times 8"$
 Diar. " " Approved $1\frac{1}{2}"$ Threads per Inch 11
 " " " in Boilers " "
 Material " " steel

Thickness of Combustion Chamber Backs Approved $\frac{5}{8}"$
 " " " in Boilers " "
 Pitch of Screwed Stays in O.C. Backs $8\frac{3}{4}" \times 7\frac{5}{8}"$
 Diar. " " Approved $1\frac{1}{2}"$ Threads per Inch 11
 " " " in Boilers " "
 Material " " steel

Are all Screwed Stays fitted with Nuts inside O.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

yes. $\frac{11}{16}"$
 4
 3
 $9\frac{1}{2}"$, $\frac{3}{4}"$ double.
 steel.
 3

228.
 $16" \times 12"$

VERTICAL DONKEY BOILERS.

No. of Boilers
 Type
 Height
 Diameter 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 Grooves
 Height of Rivet Grooves above Fire Grate
 Are Rivet Grooves Flat or Dished?
 External Radius of Dished Crowns
 Diar.
 No. of Crown Stays
 Internal Diar. of Rivets at Top
 Bottom
 Thickness
 No. of Water Tubes
 Material of Water Tubes
 Size of Manhole in Shell
 Dimensions of Combustion Flue
 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?

What is the pressure on each superheater?

What is the temperature of steam from each?



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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.



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EVAPORATORS.

No. 1 Type *vertical* Tons per Day 20
 Makers *Davie & Horne*
 Working Pressure 25 lb. Test Pressure *Shell 50*
Coils 400 Date of Test 14-9-20.
 Date of Test of Safety Valves under Steam 16-12-20.

FEED WATER HEATERS.

No. Type
 Makers
 Working Pressure Test Pressure Date of Test
Davie & Horne Combined.

FEED WATER FILTERS.

No. Type *Direct contact.* Size
 Makers
 Working Pressure 180 lb. Test Pressure *400*
~~360~~ lb. Date of Test 9-9-20

LIST OF DONKEY PUMPS.

1. Ballast, by Dawson & Downie of Clydebank.
 Vertical duplex, 8" x 9" x 8"
 Suctions: - Sea, tanks, bilge, special bilge.
 Discharges: - Tanks, condensers, overboard.
2. General service, same makers,
 vert. dup. 6" x 4 1/4" x 6"
 Suctions: - Sea, hotwell, boilers, condenser
 drain tank, condenser.
 Discharges: - boilers, deck, o'board, engine-
 room hose.
3. Harbour donkey, same makers, vert.
 dup., 5" x 3 1/2" x 6"
 Suctions: - Sea, aux. condenser drain tank,
 Discharges: - boiler, o'board.
4. Oil fuel transfer, by G. & J. Weir, Cathcart.
 5 1/2" x 6" x 15".
5. Oil fuel pumps & heaters (in duplicate) by
 same makers. (White's system.)



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SPARE GEAR.

No. of Top End Bolts,	2	No. of Bot. End Bolts,	2	No. of Cylinder Cover Studs	6
" Coupling Bolts	12	" Main Bearing Bolts	2	" Valve Chest "	6
" Junk Ring Bolts	6	" Feed Pump Valves	2	" Bilge Pump Valves	2
" H.P. Piston Rings	—	" I.P. Piston Rings	—	" L.P. Piston Rings	—
" " Springs	—	" " Springs	—	" " Springs	—
" Safety Valve "	3	" Fire Bars	126	" Feed Check Valves	1 set
" Piston Rods	—	" Connecting Rods	—	" Valve Spindles	—
" Air Pump Rods	—	" Air Pump Buckets	—	" Air Pump Valves	1 set
" Cir. "	—	" Cir. "	—	" Cir. "	1 set
" Crank Shafts	—	" Crank Pin Bushes	—	" Crosshead Bushes	—
" Propeller Shafts	1	" Propellers	1	" Propeller Blades	—
" Boiler Tubes	12	" Condenser Tubes	12	" Condenser Ferrules	120

OTHER ARTICLES OF SPARE GEAR:—

3 cylinder escape valves &
springs.

1 feed pump do. do.

6 holding-down bolts & nuts.

REFRIGERATORS



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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

RESULTS OF TRIALS.

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 *W. Fuse-boards in Crews*

Quarters, Engineer's quarters, Saloon passage, chart room, and engine room.

Location	Number of Cables	Number of Switches	Number of Fuses	Number of Cut-outs	Number of Fuses	Number of Cut-outs
----------	------------------	--------------------	-----------------	--------------------	-----------------	--------------------

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

Yes.

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

Yes.

Are the Fuses of Standard Size?

"

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. *18* S.W.G., Largest, No. *16* S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

Armoured.

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

Lead covered.

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

Armoured cables.

(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? *yes.*

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

Has the Insulation Resistance over the whole system been tested? *no.*

What does the Resistance amount to? *✓*

Ohms.

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

" " " an Ampere Meter? *"*

Date of Trial of complete Installation *16th Dec. '20.* 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?

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

Surveyor.

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,

W. H. King
Chief Surveyor.

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

1921

12th January

Fees advised

Fees paid

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In order
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Foundation
Secretary.

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 me from personal examination

"Montecillo"

J. Wood Harrington.

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

GENERAL CONSTRUCTION

1900

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

JOSEPH BOWEN

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

BOWEN

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

Total

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

It is submitted that this Report be approved.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

Approved by the Committee for the Office of M.B.S. on the 10th day of January 1901.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

and the same amount of work was done as in the previous year.

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