

No. 2334

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 2301 No. in Register Book 3692

" "   
S.S. **S I R R A**

Makers of Engines *Swanwick & Co. Ltd.*

Works No. 369.

Makers of Main Boilers *Blair & Co. (1926) Ltd.*

Works No. C 397.

Makers of Donkey Boiler ✓

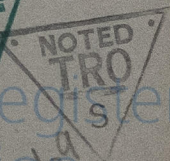
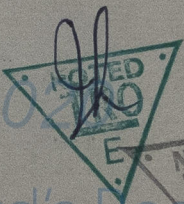
Works No. ✓

MACHINERY.



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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 .....

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the ~~Single Screw~~ <sup>Whaler</sup> ~~Twin Screw~~ <sup>"Sirra"</sup>

Official No. 160670

Port of Registry

Registered Owners

Engines Built by

at

Main Boilers Built by

at

Donkey " "

at

Date of Completion

First Visit

Last Visit

Total Visits

31 December 1929

Leith.

The South Georgia Co. Ltd.

Cunthorpe & Co. Ltd.

South Bank-on-Las.

Blair Bell & Co. Ltd.

Stockton-on-Las.

8-29

14-5-29

7-8-29

30

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## RECIPROCATING ENGINES.

Works No. 369.

No. of Sets 1

Description

*Triple expansion  
S.C. 3 crks.*

No. of Cylinders each Engine

3

No. of Cranks

3

Diams of Cylinders

14" - 23" - 39"

Stroke

24"

Cubic feet in each L.P. Cylinder

16.6

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

Diam. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diam. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

" Main Bearings

Lengths

" Bolts in each

Diam. over Thread

Threads per inch

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

*Brown Bros.*

Piston

Crossheads,

Connecting Rods, Finished by

*Cumtch Shco.*

Piston

Crossheads,

Date of Harbour Trial

6-8-29.

" Trial Trip

7-8-29.

Trials run at

*In North Sea.*

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

*Yes.*

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

*869.*

Revs. per min.

150

Pressure in 1st L.P. Receiver,

60

lbs., 2nd L.P.,

lbs., L.P.,

10

lbs., Vacuum, 25" ins.

Speed on Trial

*no calculation*

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

data:—

Builders' estimated I.H.P.

Revs. per min.

Estimated Speed



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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

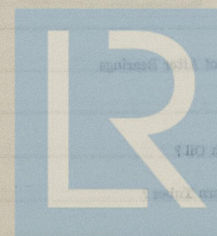
Turbine Spindles forged by

" 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

Diam. by Rule

Actual

In Way of Webs

" of Crank Pins

Length between Webs

Greatest Width of Crank Webs

Thickness

Least

Diam. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diam. at Mid Length

Diam. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diam. of Thrust Shafts at bottom of Collars

No. of Collars

" " Forward Coupling

At Aft Coupling

Diam. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diam. at Mid Length

Diam. of Pitch Circle

Diam. of Propeller Shafts by Rule

Actual

At Coupling

Are Propeller Shafts fitted with Continuous Brass Liners?

Diam. over Liners

Length of After Bearings

Of what Material are the After Bearings composed?

Are Means provided for lubricating the After Bearings with Oil?

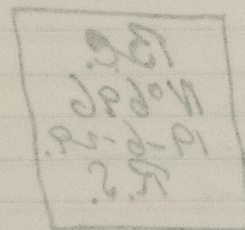
" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted?

## SKETCH OF CRANK SHAFT.

No. of Blades each Propeller  
Material of Blades  
Diam. of Propellers  
Coefficient of Displacement of Vessel at 1 Mounted Depth  
Crank Shafts forged by  
" " Pins  
" " Webs  
" " Thrust Shafts  
" " Intermed.  
" " Propeller  
" " Crank  
" " Thrust  
" " Intermed.  
" " Propeller

STAMP MARKS ON SHAFTS.



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No. of Blades each Propeller

Ritted or Solid?

Material of Blades

Diam. of Propellers

Boss

Surface (each

S. ft.)

Coefficient of Displacement of Vessel at 1/2 Moulded Depth

Crank Shafts Forged by

Material

Pins

Webs

Thrust Shafts

Intermed. „

Propeller „

Crank „ Finished by

Thrust „

Intermed. „

Propeller „

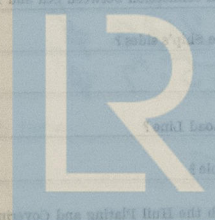
STAMP MARKS ON SHAFTS.

Crank. Thrust  
Shafts:

B.C.  
No 696  
19-6-29.  
R.S.

## SKETCH OF PROPELLER SHAFT.

No. of Air Pumps  
Worked by Main or Independent Engines?  
No. of Auxiliary Pumps  
Type of  
Diam. of  
Suction from Sea  
Has each Pump a Ripe Suction with Non-return Valve?  
What other Pumps can circulate through Condenser?  
No. of Feed Pumps on Main Engine  
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  
What other Pumps can feed the Boilers?  
No. of Bipe Pumps on Main Engine  
Can one Pump be overhauled while the others are at work?  
No. of Independent Bipe Pumps  
What other Pumps can draw from the Bilges?  
Are all Bipe sections fitted with flanges?



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## 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 Roscs?

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.

No. of Boilers

Single or Double ended

No. of Furnaces in each

Type of Furnaces

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 Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can Boilers be worked separately?

Makers of Plates

" of Bars

" of Rivets

" of Furnaces

Greatest Internal Dia. of Boilers

" of Tubes

" of Grates

" of Stays

" of Rivets

" of Plates

" of Flanges

" of Gaskets

" of Bolts

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## BOILERS

Works No. *C 394*

No. of Boilers *1* Type *Cylindrical multitubular*

Single or Double-ended *single.*

No. of Furnaces in each *3*

Type of Furnaces *Slight*

Date when Plan approved *18-3-29*

Approved Working Pressure *200 lbs.*

Hydraulic Test Pressure *350*

Date of Hydraulic Test *8-7-29.*

when Safety Valves set *6-8-29.*

Pressure at which Valves were set *206 lbs.*

Date of Accumulation Test *6-8-29.*

Maximum Pressure under Accumulation Test *206 lbs.*

System of Draught *C.A.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *J. Dunlop & Co.*

Stay Bars *D. Cobille & Sons Ltd.*

Rivets *Blair & Co.*

Furnaces *Broomfield.*

Greatest Internal Diam. of Boilers *14' 0"*

Length *11' 6"*

Square Feet of Heating Surface each Boiler *2292 #*

Grate *55.7 #*

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

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

No. of Pressure Gauges, each Boiler *2* No. of Water Gauges *1*

Test Cocks *3* Salinometer Cocks *1*

Are the Water Gauges fitted direct to the Boiler Shell or mounted on Pipes?

Are the Water Gauges fitted direct to the Boiler Shell or connected by Pipes?

Are these Pipes connected to Boilers by Cocks or Valves?

Are these Cocks or Valves fitted on Boiler Shells?

No. of Stakes of Shell fitting in each Boiler

Plates in each Stakes

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Hand or Machine Riveted?

Are the Joint Stacks Single or Double?

Are the Double Joint Stacks of equal width?

Thickness of outside Joint Stacks

inside

Are Longitudinal seams Hand or Machine Riveted?

Are they Single, Double or Triple Riveted?

No. of Rivets in a Pitch

Diam. of Rivet Holes

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Front and Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Back and Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes



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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

Diam. of Rivet Holes

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. 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

Diam. " " " " Approved

" " " " in Boilers

Material of " " " "

How are Straps Secured?

Diam. and Thickness of Loose Washers on End Plates

" " " " Riveted

Width " " " " Doubling Straps

Thickness of Middle Back End Plates Approved

" " " " in Boilers

Thickness of Doublings in Width Space between Transoms

Pitch of Straps at

Diam. of Straps Approved

" " " " in Boilers

Material of

Are Straps fitted with Nut outside?

Thickness of Back End Plates at Bottom Approved

" " " " in Boilers

Pitch of Straps at Width Space between Transoms

Thickness of Doublings in

Thickness of End Plates at Bottom Approved

" " " " in Boilers

No. of Doublings at Width Space between Transoms



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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



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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.O. Tops

*Same as Host I*



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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

Size of Lower Manholes

# VERTICAL DONKEY BOILERS

No. of Boilers  
Type  
Greatest Int. Diam.  
Height  
Height of Boiler Crown above Fire Grate  
Are Boiler Crowns Flat or Dished?  
Internal Radius of Dished Boilers  
Description of Stays in Boiler Crown  
Diar. of Water Tubes  
Height of Firebox Crown above Fire Grate  
Are Firebox Crowns Flat or Dished?  
External Radius of Dished Crowns  
No. of Crown Stays  
Diar.  
Material  
Thickness of Plates  
Bottom  
Thickness  
No. of Water Tubes  
Material of Water Tubes  
Size of Manholes in Shell  
Dimensions of Compensation Ring  
Heating Surface, each Boiler  
Gross Surface

## SUPERHEATERS



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## VERTICAL DONKEY BOILERS.

No. of Boilers	Type	
Greatest Int. Diar.	Height	
Height of Boiler Crown above Fire Grate		
Are Boiler Crowns Flat or Dished?		
Internal Radius of Dished Ends	Thickness of Plates	
Description of Seams in Boiler Crowns		
Diar. of Rivet Holes	Pitch	Width of Overlap
Height of Firebox Crowns above Fire Grate		
Are Firebox Crowns Flat or Dished?		
External Radius of Dished Crowns	Thickness of Plates	
No. of Crown Stays	Diar.	Material
External Diar. of Firebox at Top	Bottom	Thickness of Plates
No. of Water Tubes	Ext. Diar.	Thickness
Material of Water Tubes		
Size of Manhole in Shell		
Dimensions of Compensating Ring		
Heating Surface, each Boiler	Grate Surface	

## SUPERHEATERS.

Description of Superheaters

Where situated?

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater

Diar.

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

## MAIN STEAM PIPES.

No. of Pipes	
Material	
Welded or Seamed	
Internal Diar.	
Thickness	
How are Pipes secured?	
Date of Hydraulic Test	
Test Pressure	
No. of Pipes	
Material	
Welded or Seamed	
Internal Diar.	
Thickness	
How are Pipes secured?	
Date of Hydraulic Test	
Test Pressure	
No. of Pipes	
Material	
Welded or Seamed	
Internal Diar.	
Thickness	
How are Pipes secured?	
Date of Hydraulic Test	
Test Pressure	



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## MAIN STEAM PIPES.

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

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

1  
copper.  
S.P.  
4 1/2"  
4 w.s.  
braced.  
31-7-19  
600 lbs.

## LIST OF PUMPS AND VALVES

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Date of Test of Safety Valves under Steam

## FEED WATER HEATERS

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Date of Test of Safety Valves under Steam

## FEED WATER FILTERS

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Date of Test of Safety Valves under Steam



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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.

*Same as Seira*

No. of Top Head Hole	No. of Top Head Hole	No. of Top Head Hole	No. of Top Head Hole
Coupling Hole	Coupling Hole	Coupling Hole	Coupling Hole
Lead Pump Valve	Lead Pump Valve	Lead Pump Valve	Lead Pump Valve
L.P. Piston Rings	L.P. Piston Rings	L.P. Piston Rings	L.P. Piston Rings
Spacers	Spacers	Spacers	Spacers
Lead Check Valve	Lead Check Valve	Lead Check Valve	Lead Check Valve
Piston Valve	Piston Valve	Piston Valve	Piston Valve
Connection Hole	Connection Hole	Connection Hole	Connection Hole
Air Pump Valve	Air Pump Valve	Air Pump Valve	Air Pump Valve
Crank Shaft	Crank Shaft	Crank Shaft	Crank Shaft
Propeller Shaft	Propeller Shaft	Propeller Shaft	Propeller Shaft
Condenser Tubes	Condenser Tubes	Condenser Tubes	Condenser Tubes

OTHER ARTICLES OF STAIN STEEL



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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	" I.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:—



## 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.

COMPARTMENT.

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

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ELECTRIC LIGHTING.  
R. Pickensill Louis

of Dynamos 1 compound wound

Stundland Forge Aug 6 2d

40 Amperes, at 110 Volts, 350 Revols. per Min.

Continuous

4

4

4

4

4

Circuit.	Number of Lights.	Candle Power.	Current Required Amperes.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>same as</i>							

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No. of Motors driving Fans, &c.	No. of Heaters
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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Book Reviews of Bibliography



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 Sizes?

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 7-8-19. Duration of Trial 6 hours.

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 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 *me* from personal examination

*SIRRA*

*J.D. Stephenson*

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

Fees—

## MAIN BOILERS.

		£	s.	d.
H.S.	<i>2292</i> Sq. ft.	:	:	:
G.S.	<i>55.7</i> "	:	:	:

## DONKEY BOILERS.

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

## ENGINES.

L.P.C.	<i>16.6</i> Cub. ft.	:	:	:
	£	:	:	:

Testing, &c. ...	:	:	:
£	:	:	:

Expenses ...	:	:	:
Total ...	£	:	:

It is submitted that this Report be approved,

*Jas Barr* for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the *8<sup>th</sup> January 1930*

Fees advised

Fees paid



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