

No. 1254

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 1260 No. in Register Book 1978

N. N. C. SADIKOCULA

S.S. "BARON INCHCAPE"

Makers of Engines J. C. KINCAID & CO LD.

Works No. 440

Makers of Main Boilers J. C. KINCAID & CO LD.

Works No. 440

Makers of Donkey Boiler —

Works No. —

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY  
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Report No. 1260 No. in Register Book 1978

Received at Head Office

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the Steel Screw Steamer

"Baron Incheape"

Port of Registry Ardrossan

Registered Owners Hogarth Shipping Co. Ltd.

Surveyor's District Greenock

Date of Completion of Engines 9-17

.. .. Main Boilers 9-17

.. .. Donkey -

Trial Run at Firth of Clyde

Date 20-9-17

First Visit 21-7-16

Last Visit 20-9-17

Total Number of Visits 45



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## ENGINES.

Made by *J. G. Kincaid & Co. Ltd.*  
 " at *Greenock*  
 Description *Triple expansion, surface condensing*  
 No. of Cylinders, each Engine *3* Diars. *27"-46"-76"* Stroke *48"*  
 Cub. feet in each L.P. Cylr. *126.01* Revols. per Min. \_\_\_\_\_ I.H.P. \_\_\_\_\_  
 Pressure in I.P. Receiver at full Power \_\_\_\_\_ 2nd I.P. \_\_\_\_\_ L.P. \_\_\_\_\_  
 Thickness of Metal in H.P. Cylr. *1 1/4"* I.P. *1 1/2"* " " " *1 1/2"*  
 " " " " Liner *1 1/2"* " " " " " *1 1/2"*  
 " " " " Valve Chest *1 1/4"* " " " " " *1 1/8"*  
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *Yes*  
 " " " " each Receiver? *Yes*  
 Number of ~~Studs~~ in H.P. Cylr. Cover *32* I.P. *32* 2nd I.P. \_\_\_\_\_ L.P. *32*  
 " " " " " *1 1/4"* " " " " " *1 1/4"* " " " " " \_\_\_\_\_  
 " " " " " *3 1/2"* " " " " " *5"* " " " " " \_\_\_\_\_  
 Type of H.P. Valves (Piston or Slide) *Piston* *Slide* *Slide*  
 " Valve Gear *link motion*  
 Diameter of Piston Rods (plain part) *7 1/2"* At Bottom of Thread *5.43"*  
 Makers " *J. G. Kincaid & Co. Ltd.* Material *S.S.*  
 Diameter of Connecting Rods (smallest part) *7 1/4"* Material *S.S.*  
 Makers " " *Pipe Forge Co. Ltd.*  
 Diar. of Crosshead Gudgeons *7 1/2"* Length of Bearing *20 7/8"* Material *S.S.*  
 No. of Top End Bolts (each Rod) *4* Effective Diar. *3.037"* Material *S.S.*  
 " Bot. " " *2* " *3.68"* " *S.S.*  
 " Main Bearings *6* Lengths *14 3/4"*  
 " Bolts in each *2* Effective Diar. *3 1/4"* Material *S.S.*

No. of Holding Down Bolts, each Engine

No. of Metal Chocks

Diar. " " " "

Average Pitch

Are the Engines bolted directly to the Tank Top?

Are the Bolts tapped through the Tank Top and fitted with Nuts inside

Date of Test of Tank by Water Pressure with Holding Down Bolts in place

## SKETCHES.



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## SKETCHES.

5800  
 $200 \times 76^2 \times 48$   
 2150  $\left[ \left( \frac{76}{27} \right)^2 + 2 \right]$   
 2600 9.9

Crank web d = 14.42

## SHAFTING.

14.42

Are Crank Shafts Built? Yes No. of Lengths in each 3 Angle of Cranks  $170^\circ$

Diar. of Crank Shafts by Rule 14.32 Actual  $14\frac{5}{8}$  Diar. in Way of Webs  $14\frac{5}{8}$

Makers of " Burmeister & Wain Material L.S.

Diar. of Crank Pins  $14\frac{5}{8}$  Diar. in Way of Web  $14\frac{5}{8}$

Makers of " Burmeister & Wain Material L.S.

Width across Crank Webs at Centre of Shaft  $26\frac{1}{2}$  Thickness }  
 " " " " Crank Pins  $26\frac{1}{2}$  " }  $9\frac{1}{2}$

" " " " Narrowest part 22  
 Makers of Crank Webs Burmeister & Wain Material L.S.

Diar. or Breadth of Keys in Crank Webs  $2\frac{1}{4}$  Length 6

" of Dowel Pins in Crank Pins  $2\frac{1}{4}$  Length 6 Screwed or Plain Plain

No. of Bolts in each Coupling 6 Diar. at Mid Length  $3\frac{1}{2}$  Diar. of Pitch Circle  $21\frac{1}{2}$

Material of Coupling Bolts L.S.

Crank Shafts Finished by Burmeister & Wain Clearance.

Greatest Distance from edge of Main Bearing to Crank Web

Description of Thrust Blocks Adjustable

Number " " Rings 7

Diar. of Thrust Shafts by Rule 14.32 Actual (at bot. of Collars)  $14\frac{5}{8}$  Over Collars  $23\frac{1}{2}$

" " at Forward Coupling  $14\frac{5}{8}$  After Coupling  $14\frac{5}{8}$

No. of Thrust Collars 7 Thickness  $2\frac{3}{4}$  Distance apart  $5\frac{1}{2}$

Thrust Shafts Forged by Burmeister & Wain Material L.S.

" Finished by do

Diar. of Intermediate Shafting by Rule 13.61 Actual  $13\frac{1}{2}$

No. of Lengths, each Engine 7 No. of Tunnel Bearings 8

Diar. of Bearings 14" Length  $16\frac{1}{4}$  Distance apart 18 0

No. of Bolts, each Coupling

6  
Diar. at Mid Length  $3\frac{1}{2}$ "  
Diar. of Pitch Circle  $21\frac{1}{2}$ "  
Intermediate Shafts Forged by Burneiste Wain Material L.S.

Intermediate Shafts Forged by

do

Diar. of Propeller Shafts by Rule

15.86  
Actual  $16\frac{1}{2}$ "  
At Couplings  $14\frac{5}{8}$ "

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes

Diar. over Liners

18"

Length of After Bearings

5'-6"

Of what Material are the After Bearings composed?

Brass thigun. vital

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing

Are the After Bearings lubricated with Oil or Sea Water?

Water

What means are adopted to prevent Sea Water entering the Stern Tubes?

Propeller Shafts Forged by

Burneiste Wain Material L.S.

Finished by

J.G. Kincaid Cold.

No. of Propellers

One

Diar.

 $18'-3"$ 

Pitch

 $19'-0"$ 

Blades, each Propeller

4

Fitted or Solid

Fitted

Material of Blades

Bronze

Boss

cast iron

Surface, each Propeller

110

Diar. of Propeller

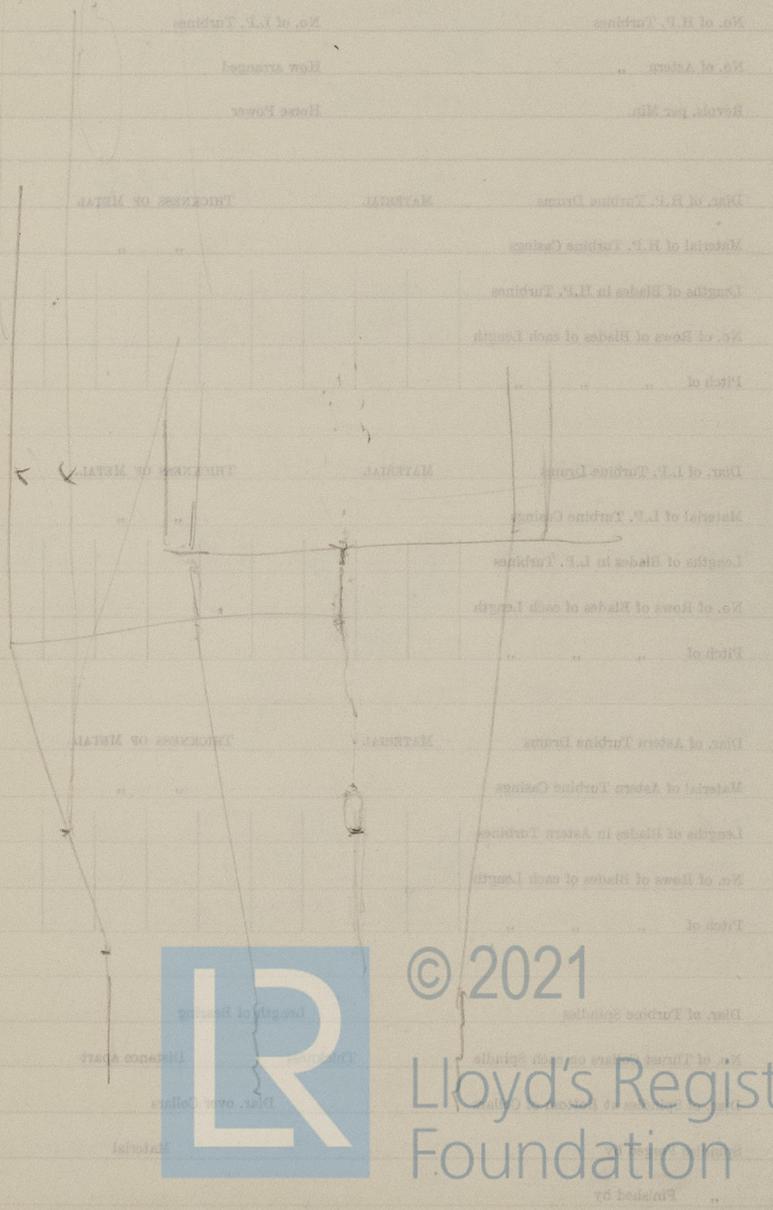
15.3

Rule Diar. of Crank Shaft =

Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth

1.77

TURBINE SKETCHES.



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## TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of L.P. Turbines

No. of Astern "

How arranged

Revol. per Min.

Horse Power

Diar. of H.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of H.P. Turbine Casings

" "

Lengths of Blades in H.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of L.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of L.P. Turbine Casings

" "

Lengths of Blades in L.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Astern Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of Astern Turbine Casings

" "

Lengths of Blades in Astern Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Turbine Spindles

Length of Bearing

No. of Thrust Collars on each Spindle

Thickness

Distance apart

Diar. of Spindles at Bottom of Collars

Diar. over Collars

Spindles Forged by

Material

" Finished by

## SKETCHES.



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## PUMPS, ETC.

No. of Air Pumps *one*      Diar. *25½"*      Stroke *28"*  
 Type of "      *Ordinary bucket*  
 Diar. of Air Pump Rod *3½"*      Material *Muntz metal*  
 How are Air Pumps Worked? *Lever*

No. of Centrifugal Circulating Pumps *one*      Maker *Drysdale*  
 " Reciprocating " "      -      Diar. -      Stroke -  
 Diar. of Circulating Pump Rods      Material -  
 How are Circulating Pumps Worked? *Engine direct*

Diar. of Circulating Pump Suction from Sea -  
 Has each Circulating Pump a Bilge Suction with Non-return Valve? *Yes*      Diar. -  
 No. of Feed Pumps on each Engine *2*      Diar. *4¼"*      Stroke *28"*  
 Where do they pump from? *Hottelwell*  
 " " discharge to? *Heater*  
 Are Spring-loaded Relief Valves fitted to each Pump? *Yes*  
 Can one Pump be overhauled while the others are at work? *Yes*

No. of Bilge Pumps on each Engine *2*      Diar. *4¼"*      Stroke *28"*  
 Where do they pump from? *Sea bilges*  
 " " discharge to? *Deck overboard*  
 Can one Pump be overhauled while the others are at work? *Yes*

No. of Bilge Injections connected to Condensers -      Diar. -  
 Are all Bilge Suctions fitted with Roses? *Yes*  
 Are the Valves, Cocks, and Pipes so arranged as to prevent unintentional connection between Sea and Bilges? *Yes*

Are all Sea Connections made with Valves or Cocks fitted direct to the Hull Plating? *Yes*

Are they placed so as to be easily seen and accessible? *Yes*

Are the Discharge Chests placed above the Deep Load Line? *Yes*

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*



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## BOILERS.

Boilers made by

J. G. Kincaid &amp; Co. Ltd

at

Greenock

Works No.

440

Date when Plan approved

75-1-14

Boiler Plates, Iron or Steel

Steel

Makers of Shell Plates

Stewart &amp; Lloyds Ltd

Internal Plates

do

Furnaces

Deighton's F. &amp; G. Co

Stay Bars

D. Colville &amp; Sons Ltd

Rivets

N. W. Rivet Bolt &amp; Nut Co

Material tested by (B.C., B.T., etc.)

B.C.

No. of Boilers

3

Single or Double-ended

Single

No. of Furnaces, each Boiler

3

Type of Furnaces

Deighton

Approved Working Pressure

200 lbs

Hydraulic Test Pressure

400 lbs

Date of Hydraulic Test

(2) 18-6-17 (1) 23-6-17

when Safety Valves set

17-9-17

Pressure on Valves

205 lbs

Date of Steam Accumulation Test

-

Max. Pressure under Accumulation Test

-

System of Draught

Stowdens &amp; A.

Can Boilers be worked separately?

Yes

Greatest inside Diam. of Boilers

16'-1 7/8"

Length

12'-0"

Square Feet of Heating Surface, each Boiler

2830 sq ft

Grate

60 sq ft



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No. of Rows of Rivets in Centre Circumferential Seams ✓  
 Are these Seams Hand or Machine Riveted? ✓  
 Diar. of Rivet Holes ✓  
 Pitch " ✓  
 Width of Overlap ✓  
 No. of Rows of Rivets in End Circumferential Seams 2  
 Are these Seams Hand or Machine Riveted? Back. machine. Front. hand-  
 Diar. of Rivet Holes 1 7/16"  
 Pitch " 3.344"  
 Width of Overlap 6 3/4"  
 Size of Manholes in Shell 16" x 12"  
 Dimensions of Compensating Rings 2'-11 1/4" x 2'-7 1/4"  
 Thickness of End Plates in Steam Space by Rule 73.91"/16  
 " " " " " Approved 24"/16  
 " " " " " in Boilers 24"/16  
 Pitch of Steam Space Stays 73.75" x 72.75"  
 Eff. Diar. " " " " by Rule 3.574"  
 " " " " " Approved 3.59"  
 " " " " " in Boilers 3.59"  
 Material of " " " Steel  
 How are Stays Secured? Double nuts washers  
 Diar. and Thickness of Loose Washers on End Plates 1 1/4" x 1"  
 " " Riveted " " " ✓  
 Width " " Doubling Strips " " ✓  
 Thickness of Middle Back End Plate by Rule 15.88"/16  
 " " " " " Approved 16"/16  
 " " " " " in Boilers 16"/16

Thickness of Doublets in Wide Spaces between Staybolts  
 Pitch of Stays  
 Eff. Diar. of Stays by Rule  
 Approved  
 in Boilers  
 Material of  
 Thickness of Front End Plates at Bottom by Rule  
 Approved  
 in Boilers  
 Pitch of Stays at Wide Spaces between Staybolts  
 Thickness of Doublets in  
 Thickness of Front End Plates at Bottom by Rule  
 Approved  
 in Boilers  
 No. of Long Stays in Space between Staybolts  
 Eff. Diar. of Stays by Rule  
 Approved  
 in Boilers  
 Material of



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Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

Eff. Diar. of Stays by Rule

Approved

in Boilers

Material

Are Stays fitted with Nuts outside?

14 1/4" x 7 3/4"

1.61"

1.759"

1.759"

Steel

Yes

Back End Plate. Front. End.

Thickness of Back End Plates at Bottom by Rule

Approved

in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

manholes

1"

1"

Thickness of Front End Plates at Bottom by Rule

Approved

in Boilers

No. of Long Stays in Spaces between Furnaces

Eff. Diar. of Stays by Rule

Approved

in Boilers

Material of

13.36

16

16.5

16.5

16

3

1.846"

2.09"

2.09"

Steel

Thickness of Front Tube Plates by Rule

Approved

in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in

Stay Tubes at

16.09"

16

16.5

16.5

16

14" x 7.5"

3/8"



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Are Stay Tubes fitted with Nuts at Front End?

no

Thickness of Back Tube Plates by Rule

$$\frac{11.53}{16}$$

Approved

$\frac{12}{16}$

in Boilers

$\frac{12}{16}$

Pitch of Stay Tubes in Back Tube Plates

$$7.5 \times 11.25$$

Plain

$$3\frac{3}{4} \times 3\frac{3}{4}$$

Thickness of Stay Tubes

$\frac{5}{16}$

Plain

8 w.c.

External Diar. of Tubes

$2\frac{1}{2}$

Material

Iron. L.W.

Thickness of Furnace Plates by Rule

$$\frac{16.51}{16}$$

Approved

$\frac{11}{16}$

in Boilers

$\frac{11}{16}$

Smallest outside Diar. of Furnaces

$$49.375$$

Length between Tube Plates

$$8'-0"$$

Width of Combustion Chambers (Front to Back)

3'-2" over plates

Thickness of Tops, by Rule

$$\frac{9.99}{16}$$

Approved

$\frac{10}{16}$

in Boilers

$\frac{10}{16}$

Pitch of Screwed Stays in C.C. Tops

$$7.875 \times 8.375$$

Eff. Diar. by Rule

$$1.41$$

Approved

$$1.508$$

in Boilers

$$1.508$$

Material

Steel

Thickness of Combustion Chamber Sides by Rule

$$\frac{9.99}{16}$$

Thickness of Combustion Chamber Sides by Rule

in Boilers

$$8.875 \times 8.375$$

Pitch of screw stays in C.C. Sides

Eff. Diar. by Rule

Approved

in Boilers

Material

Thickness of Combustion Chamber Sides by Rule

Approved

in Boilers

Pitch of screw stays in C.C. Sides

Eff. Diar. by Rule

Approved

in Boilers

Material

Are all screw 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



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Thickness of Combustion Chamber Sides Approved	$\frac{10}{16}$ "
" " " " in Boilers	$\frac{10}{16}$ "
Pitch of Screwed Stays in C.C. Sides	8.875" x 8.375"
Eff. Diar. " " by Rule	1.41"
" " " Approved	1.508"
" " " in Boilers	1.508"
Material " "	Steel
Thickness of Combustion Chamber Backs by Rule	$\frac{9.99}{16}$ "
" " " " Approved	$\frac{10}{16}$ "
" " " " in Boilers	$\frac{10}{16}$ "
Pitch of Screwed Stays in C.C. Backs	7.75" x 8.5"
Eff. Diar. " " by Rule	1.41"
" " " Approved	1.508"
" " " in Boilers	1.508"
Material " "	Steel
Are all Screwed Stays fitted with Nuts inside C.C.?	Yes
Thickness of Combustion Chamber Bottoms	$\frac{13}{16}$ " over plates
No. of Girders over each Wing Chamber	5
" " " Centre "	3
Depth and Thickness of Girders	10 $\frac{1}{4}$ " x 2 @ $\frac{3}{4}$ "
Material of Girders	Steel
No. of Stays in each	3
No. of Stay Tubes, each Boiler	124
" " Plain " " "	326
Size of Lower Manholes	16" x 12"

## VERTICAL DONKEY BOILERS

If the Donkey Boiler is Vertical the following particulars should be stated in addition to those on

page 17 and applicable to such Boilers—

Type of Boiler

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Crowns

Composition of Steam in Boiler Crown

Diam. of Fire Hole

Height of Firebox Crown above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Are they fitted with Nuts inside?

## SUPERHEATERS

Description of Superheater

Where situated

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VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on previous Pages applicable to such Boilers:--

Type of Boilers

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

Effective Diar.

Material

External Diar. of Firebox at Top

Bottom

Thickness of Plates

No. of Water Tubes

Int. Diar.

" "

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Eff. Diar.

Material

Are they fitted with Nuts inside?

Outside?

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 Superheaters.

Diar.

Area

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

MAIN SKETCHES.

No. of Machine	
Description	
Date of Hydraulic Test	
Test Pressure	

*Handwritten notes:* 19-5-17, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000.

REFRIGERATORS

No. of Machine	
Description	
Date of Hydraulic Test	
Test Pressure	



## MAIN STEAM PIPES.

No. of Lengths

4

Material

Iron

Brazed, Welded, or Seamless

lap welded

Internal Diam.

4 7/8"

Thickness

5/16"

How are Flanges Secured?

Screwed

Date of Hydraulic Test

19-2-17

Test Pressure

600 lbs.

B.D. —

## REFRIGERATORS.

No. of Machines

Makers

Description

When any part of the Vessel is to be used for the Carriage of Refrigerated Cargo the following particulars should be stated:—

Total Cubic Capacity of Refrigerated Spaces

Nature, Construction, Thickness, &amp;c., of Insulation

Are all Pipes, Air Trunks, &amp;c., well secured and protected from risk of damage?

Are all Bilge, Suction, Sounding, and Air Pipes in Insulated Spaces properly insulated?

Are Thermometer Tubes so arranged that Water cannot enter and freeze in the Tubes?

Are Sluice Valves fitted on any of the Bulkheads of Insulated Spaces?

Are these fitted with Brass Non-return Valves?

Are they always accessible?

Are the Bilges and Bilge Rose Boxes always accessible?

Are the Steam Suctions to Bilges fitted with Non-return Valves?

Is the Machine Room effectively separated from Insulated Spaces?

" " properly Ventilated and Drained?

No. of Steam Cylinders, each Machine

Diars.

" Compressors, " " "

Diam. of Crank Shafts

No. of Cranks

Give particulars of Pumps in connection with Refrigerating Plant, and state whether worked by

Refrigerating Machines or independently

No. of Horses in which Engines are provided on Main Deck Board

Particulars of Spare Machinery—

No. of Engines	Make of Engines	Power of Engines	Speed of Engines	Pressure of Steam	Weight of Coal	Consumption of Coal	Consumption of Oil	Consumption of Gas
1	Salom	40	30 n.	12	7 1/2	100%	2000 lbs	
2	Salom	5	30 n.	5	2 1/2			
3	Salom	14	16	7	2 1/2			
4	Salom	33	16	5	2 1/2			
5	Salom	10	13	7	2 1/2			

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Date of Test under Working Conditions

Fall of Temperature in Insulated Spaces

Time required to obtain this Result

Articles of Spare Gear for Refrigerating Plant carried on board



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## SKETCHES.

## ELECTRIC LIGHTING.

Installation Fitted by

Telford Grier &amp; Mackay Ltd.

No. and Description of Dynamos

2 one, open type, compound wound.

Makers of Dynamos

Holmes &amp; Co

Capacity

200  
120 Amperes, at 100 110 Volts. 350

Revs. per Min.

Current Alternating or Continuous

Continuous

1-12 KW.

Position of Dynamos

Starting platform  
near dynamo

1-10 KW.

Main Switch Board

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

7  
1/12/09.

Particulars of these Circuits:—

No. of Circuit.	Name of Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
61	Saloon	40	30 w.	12	7/18	1000 amps	100%	2000 meg
32	Navigation	5	32 cp	5	7/20	"	"	"
73	Engines	24	30 w.	7.2	7/20	"	"	"
4	Winders 1 1/2 Kw.				7/18	"	"	"
95	aft.	21	16 cp.	10.5	7/18	"	"	"
86	Fore	14	16	7	7/20	"	"	"
117	Engines	33	16	16.5	7/16	"	"	"
5	Refing.				7/29.			
10	Large.				7/24.			

Total No. of Lights

137

No. of Motors driving Fans, &amp;c.

None

No. of Heaters

None

Current required for Motors and Heaters

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

*None*

*1-13 kW*  
*1-10 kW*

*Continued*  
*Station in*  
*main switch board*

No. of Circuits to which Switches are provided on Main Switch Board	Main Switch Board	Location of Dynamoes	Current Alternating or Continuous	Capacity	Kind of Dynamoes	No. and Description of Dynamoes	Installation Fitted by
1	2	2	1	1000	1	1	1
2	2	2	1	1000	1	1	1
3	2	2	1	1000	1	1	1
4	2	2	1	1000	1	1	1
5	2	2	1	1000	1	1	1
6	2	2	1	1000	1	1	1
7	2	2	1	1000	1	1	1
8	2	2	1	1000	1	1	1
9	2	2	1	1000	1	1	1
10	2	2	1	1000	1	1	1
11	2	2	1	1000	1	1	1
12	2	2	1	1000	1	1	1
13	2	2	1	1000	1	1	1
14	2	2	1	1000	1	1	1
15	2	2	1	1000	1	1	1
16	2	2	1	1000	1	1	1
17	2	2	1	1000	1	1	1

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

How are Conductors in Engine and Boiler Spaces protected? *Armoured & braided*

" " Saloons, State Rooms, &c., " *Lead covered*

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp *Armoured and braided*

(2) " " passing through Bunkers or Cargo Spaces *do*

(3) " " Deck Beams or Bulkhead *do glands thro' bulkheads*

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired? *no joints.*

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 Dynamoes, 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? *1/2 megohms* Ohms.

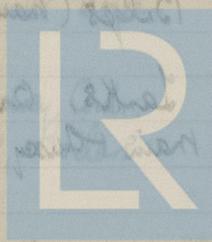
Is the Installation supplied with a Voltmeter? *Yes*

" " " an Ampere Meter? *Yes*

Date of Trial of complete Installation *Sept: 17* Duration of Trial *6 hours.*

*new main switch board arrangement. 2/12/18.*

*g*



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## EVAPORATORS.

No. *one* Type *Vertical* Tons per Day *30*  
 Makers *G. J. Weir Ltd*  
 Working Pressure *25 lb.* Test Pressure *50 lbs* Date of Test *21-1-17*  
 Date of Test of Safety Valves under Steam *-*

## FEED WATER HEATERS.

No. *one* Type *Direct Contact*  
 Makers *Weirs*  
 Working Pressure *low* Test Pressure *-* Date of Test *-*

## DONKEY

*Ballast.*  
 No. of Donkeys *one*  
 Type *Vertical*  
 Makers *Carruthers*  
 Single or Duplex *Duplex*  
 " Double-Acting *Double*  
 Diam. of Steam Cylinders *10"*  
 " Pumps *12"*  
 Stroke of " *12"*  
 Where do they pump from? *Tanks*  
*Belgs (main direct)*  
 Where do they discharge to? *Tanks, Overboard*  
*main Auxey Condr.*  
 Capacity, Tons per Hour of Ballast Donkey *one*  
 Diam. of Pipe required by Rule for *one*

## FEED WATER FILTERS.

No. *one* Type *Cascade* Size *-*  
 Makers *Richardsons Westgarth & Co. Ld.*  
 Working Pressure *low* Test Pressure *-* Date of Test *-*

## FORCED DRAUGHT FANS.

No. of Fans *2* Diam. *90"* Revols. per min. *-*  
 How are Fans driven? *7 1/2 x 5 engine.*

## PUMPS.

General	Treed	Harbour
<i>one</i>	<i>2</i>	<i>one</i>
<i>Vertical</i>	<i>Vertical</i>	<i>Vertical</i>
<i>Carruthers</i>	<i>Weirs</i>	<i>Carruthers</i>
<i>Duplex</i>	<i>Single</i>	<i>Duplex</i>
<i>Double</i>	<i>Double</i>	<i>Double</i>
<i>7 1/2"</i>		<i>5"</i>
<i>5"</i>		<i>3 1/2"</i>
<i>10"</i>		<i>8"</i>
<i>Belgs, Tanks, Sea</i>	<i>Hartwell Heats</i>	<i>Sea</i>
<i>Condr. Drywell Boilers</i>	<i>Boilers</i>	<i>Heats</i>
<i>Deck, Auxey Condr.</i>	<i>Main Auxey</i>	<i>Boilers.</i>
<i>Overboard, Boilers</i>	<i>Chest valves</i>	
	<i>on Boilers</i>	
largest Ballast Tank	Velocity of Water in Pipe	

## SPARE GEAR.

No. of Top End Bolts	2	No. of Bot. End Bolts	2
" Main Bearing Bolts	2	" Coupling Bolts	1 set
" Cylr. Cover Bolts Studs	6	" Valve Chest Cover Bolts Studs	6
" Feed Pump Valves	2 sets	" Bilge Pump Valves	1 set
" Safety Valve Springs	2	" Fire Bars	1 set
" Piston Rings	H.P. H.P.	" Junk Ring Bolts Studs	12
" Piston Rods	-	" Connecting Rods	-
" Valve Spindles	H.P. H.P.	" Air Pump "	1
" Air Pump Valves	1 set	" " " Buckets	-
" Crank Pin Bushes	1 set	" Crosshead Bushes	1 set
" Crank Shafts	-	" Propeller Shafts	-
" Propellers	-	" " Blades	2
" Boiler Tubes	24	" Condenser Tubes	36

## OTHER ARTICLES OF SPARE GEAR:—

1 set link motion brasses  
 1 eccentric strap complete  
 3 escape valve springs  
 2 sets chest valves  
 100 ferrules for condenser  
 1 impeller for circulating pump.  
 Bolts, plate steel iron etc.

## GENERAL CONSTRUCTION.

Have all the Requirements under Sections 31 and 32 of the Rules been complied with? *Yes*

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

Surveyor.

Are the Steam Pumping Arrangements in accordance with the approved Plan? *Yes*

If not, state in what respects they differ and when such differences were sanctioned by the Chief

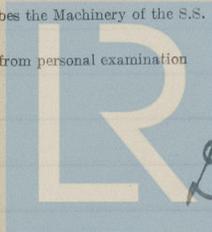
Surveyor

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. "Baron Drake"

as ascertained by me from personal examination



Lloyd's Register  
 Engineer Surveyor to the British Corporation for the  
 Survey and Registry of Shipping.

Fees—

GENERAL CONSTRUCTION

MAIN BOILERS.

H.S. Sq. ft. : : 100

G.S. : : 6

DONKEY BOILERS.

H.S. Sq. ft. : : 100

G.S. : : 12

ENGINES.

L.P.C. Cub. ft. : : 1

Testing, &c. : : 2

Expenses : : 36

Total ... £ : : 50

It is submitted that this Report be approved,

Chief Surveyor.

Approved by the Committee,

Fees applied for

Fees paid

Secretary.



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Lloyd's Register Foundation

Name  
 Date  
 Description  
 Amount  
 Balance  
 Total

It is submitted that this Report be approved.

Approved by the Committee

Date



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