

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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015433-015441-0072

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

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.
Greenock

Surveyor's District

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 *14"* 2nd I.P. *12"* L.P. *12"*
 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"* " *-* " *1 1/4"*
 " " " " " *3 1/2"* " *5"* " *-* " *8"*
 Pitch " " " " " *Piston* " *Slide* " *Slide*
 Type of H.P. Valves (Piston or Slide) *link motion*
 " Valve Gear
 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. " " " "

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.

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

Crank rule d = 14.42

SHAFTING.

Are Crank Shafts Built? 14.42 No. of Lengths in each 3 Angle of Cranks 170°
 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 Screws 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
 Greatest Distance from edge of Main Bearing to Crank Web Clearance.

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

Intermediate Shafts Forged by

Finished by

Diar. of Propeller Shafts by Rule

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Of what Material are the After Bearings composed?

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing

Are the After Bearings lubricated with Oil or Sea Water?

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

Propeller Shafts Forged by

Finished by

No. of Propellers

Blades, each Propeller

Material of Blades

Surface, each Propeller

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

Diar. at Mid Length

Diar. of Pitch Circle

Material

Actual

At Couplings

Length of After Bearings

Diar.

Pitch

Fitted or Solid

Boss

Diar. of Propeller

Rule Diar. of Crank Shaft =

1.77

Burneiste Wain

do

15.86

16 1/2

14 5/8

Yes

18

Brass thigmen vites

Water

Burneiste Wain

J. G. Kincaid Gold.

one

18 1/3

19 1/2

4

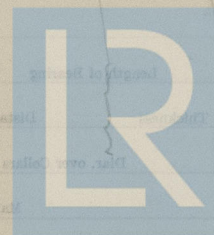
Bronze

cast iron

110

15.3

TURNSKETCHES.



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TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of L.P. Turbines

No. of Astern

How arranged

Revs. 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? *Hutchinson*
 " " 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 & Co. Ltd

at

Greenock

Works No.

440

Date when Plan approved

25-1-14

Boiler Plates, Iron or Steel

Steel

Makers of Shell Plates

Stewart & Lloyds Ltd

Internal Plates

do

Furnaces

Deighton's F. & T. Co

Stay Bars

D. Colville & Sons Ltd

Rivets

H. W. Rivet Bolt & 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

Stardens & A.

Can Boilers be worked separately?

Yes

Greatest inside Diam. of Boilers

16'-1 7/8"

Length

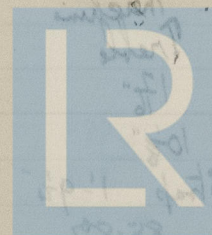
12'-0"

Square Feet of Heating Surface, each Boiler

2830 sq ft

Grate

60 sq ft



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No. of Safety Valves, each Boiler

Diar. " " "

Area " " "

Are the Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

" Water " "

" Test Cocks,

" Salinometer Cocks, "

Are Water Gauge Pillars attached by Pipes to Steam and Water Spaces?

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 by Rule

" " Approved

" " in Boilers

Are the Rivet Holes Punched or Drilled?

Are Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

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?

Diar. of Rivet Holes

Pitch "

Width of Overlap

Percentage of Strength in Longitudinal Seams

2

yes

one

one

3 on pillars.

one

yes

Cocks

Cocks.

one

3

$$\frac{13.12}{16} \quad \frac{13}{16}$$

$$\frac{13}{16}$$

Drilled

Steel

Butt

yes

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

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

Machine

Treble

$$\frac{17}{16}$$

$$\frac{10}{8}$$

Strap 1'-9"

85-8%

No. of Rows of Rivets in Centre (Longitudinal Seams)

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

No. of Rows of Rivets in End (Transverse Seams)

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

Size of Mandrels in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space by Rule

Approved

in Boilers

Pitch of Steam Space Straps

Diar. of Rivet Holes

Approved

in Boilers

Material of

How are Straps Seamed?

Pitch and Thickness of End Plates

Coupling Straps

Width



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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

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space by Rule

" " " " " Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Eff. Diar. " " " by Rule

" " " " " Approved

" " " " " 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 Plate by Rule

" " " " " Approved

" " " " " in Boilers

Back. machine. Front. hand-

17 1/2"

3.344"

6 3/4"

16" x 12"

2'-11 1/4" x 2'-7 1/4"

73.91"

74"

74"

73.75" x 72.75"

3.574"

3.59"

3.59"

Steel

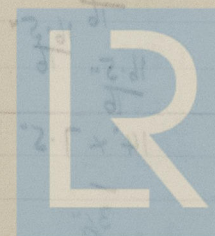
Double nuts washers

11 1/4" x 1"

15.88"

16"

76"



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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?

Thickness of Back End Plates at Bottom by Rule

" " " " Approved

" " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

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

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

$$14\frac{1}{4} \times 7\frac{3}{4}$$

$$1.61$$

$$1.759$$

$$1.759$$

Steel

Yes

manholes

$$1$$

$$1$$

$$-$$

$$-$$

$$\frac{13.36}{16}$$

$$16.5$$

$$16.5$$

$$\frac{16.5}{16}$$

$$3$$

$$1.846$$

$$2.09$$

$$2.09$$

Steel

$$16.59$$

$$\frac{16.59}{16}$$

$$16.5$$

$$\frac{16.5}{16}$$

$$14 \times 7.5$$

$$-$$

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

Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates by Rule

Approved

in Boilers

Pitch of Stay Tubes in Back Tube Plates

" " "

Thickness of Stay Tubes

" " "

External Diam. of Tubes

Material

Thickness of Furnace Plates by Rule

Approved

in Boilers

Thickness of Outside Plate of Furnaces

Length between Tube Plates

Width of Combustion Chambers (front to back)

Thickness of

Tops by Rule

Approved

in Boilers

Pitch of Stay Tubes in G.C. Tubes

" " "

Approved

in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in

" Stay Tubes at



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Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates by Rule

" " " 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 by Rule

" " " Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops, by Rule

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule

ho

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

12"

$$\frac{12}{16}$$

$$7.5 \times 11.25$$

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

$$\frac{5}{16}$$

$$8 \text{ w.c.}$$

$$2\frac{1}{2}$$

Iron. L.W.

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

11"

$$\frac{11}{16}$$

$$49.375$$

$$8'-0"$$

3'-2" over plates

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

$$\frac{10}{16}$$

$$7.875 \times 8.375$$

$$1.41$$

$$1.508$$

$$1.508$$

Steel

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

Thickness of Combustion Chamber Sides by Rule

" " " in Boilers

Pitch of Screwed 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 Screwed 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 8.875×8.375 "

Eff. Diar. " " by Rule 1.41 "

" " " Approved 1.508 "

" " " in Boilers 1.508 "

Material " " Steel

Thickness of Combustion Chamber Backs by Rule 9.99 "

" " " " Approved $\frac{10}{16}$ "

" " " " in Boilers $\frac{10}{16}$ "

Pitch of Screwed Stays in C.C. Backs 7.75×8.5 "

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 $10\frac{1}{4} \times 2 @ \frac{3}{4}$ "

Material of Girders Steel

No. of Stays in each 3

No. of Stay Tubes, each Boiler 124

" " Plain " " 326

Size of Lower Manholes 16×12 "

VERTICALS DONKEY BOILERS

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

page 24 and applicable to such Boilers.

Type of Boiler

Height of Boiler Crown above Fire Grate

Are Boiler Crown Flat or Dished?

Internal Radius of Dished Boilers

Description of Stays in Boiler Crown

Dist. of Stay Holes

Height of Staybolts Crown above Fire Grate

Are Staybolts Crown Flat or Dished?

External Radius of Dished Crown

No. of Crown Stays

Internal Dist. of Staybolts at Top

No. of Water Tubes

Material of Water Tubes

No. of Screwed Stays in Staybolts

Are they fitted with Nuts inside?

SUPERHEATERS

Description of Superheaters

When situated

Which Boiler are connected to?

Can superheaters be used in conjunction with?

No. of Safety Valves on Superheaters



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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 Lamps	
Material	
Kind, Welded or Seamless	
Internal Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	

19-5-17
Good.

REFRIGERATORS

No. of Machine	
Description	
When was it last tested?	
Should be stated	
Total Cubic Capacity of Refrigerated Space	
Nature Construction, Thickness, etc. of Insulation	
Is the machine fitted with a safety valve?	
Are all pipes, Air Trunks, etc., well secured and protected from risk of damage?	
Are all pipes, Junctions, Connections, and Air Pipes in insulated spaces properly insulated?	
Are the Refrigerator Tubes so arranged that Water cannot enter and freeze in the Tubes?	
Are there any other details of Insulated Space?	
Are they fitted with Brass Non-return Valves?	
Are the Pipes and Air Trunks properly secured?	
Are the main sections of pipes fitted with non-return valves?	



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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

4
 Iron
 lap welded
 4 7/8"
 5/16"
 Screwed
 19-2-17
 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, &c., of Insulation

Are all Pipes, Air Trunks, &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 Circuits in which Pumps are provided on Main Engine Board

Particulars of Steam Circulation—

No. of Circuits	Name of Circuit	Pressure of Steam	Quantity of Steam	Current of Steam	No. of Condensers	Capacity of Condensers	Quantity of Water	Pressure of Water
6	Saloon	40	300	12	7 1/2	1000	1000	2000

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 & Mackay Ltd.

No. and Description of Dynamos

~~2 one~~, open type, compound wound.

Makers of Dynamos

Holmes & 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 dynamos

1-10 KW.

Main Switch Board

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

7

7/12/08

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	7/036 1000 amps	100%	2000 meg
32	Navigation	5	32 cp	5	7/20	7/029 "	"	"
73	Engineers	24	30 w.	7.2	7/20	7/036 "	"	"
4	Winers 1 1/2 Kw.				7/18	7/029 "	"	"
95	apt.	21	16 cp.	10.5	7/18	7/029 "	"	"
86	Tow	14	16	7	7/20	7/029 "	"	"
117	Engines	33	16	16.5	7/16	7/036 "	"	"
5	Refing.					7/029 "	"	"
10	Large.					7/029 "	"	"

Total No. of Lights

137

No. of Motors driving Fans, &c.

None

No. of Heaters

None

Current required for Motors and Heaters

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

None.

No. of Circuits to which Switches are provided on Main Switch Board	Main Switch Board	Location of Dynamometer	Current Alternating or Continuous	Capacity	Material of Dynamometer	No. and Description of Dynamometer	Installation fitted by
1	2	4	5	6	7	8	9

Are Cut-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 Cut-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 Bulkhead

Armoured and braided

do

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 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? *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.

Single Bulk



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EVAPORATORS.

No. *one* Type *Vertical* Tons per Day *30*
 Makers *G. J. Wain 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*
Belges (main direct)
 Where do they discharge to? *Tanks, Overboard*
main & Auxy Condr.

Capacity, Tons per Hour of Ballast Donkey

Diam. of Pipe required by Rule for

FEED WATER FILTERS.

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

FORCED DRAUGHT FANS.

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

PUMPS.

<i>General</i>	<i>Feed</i>	<i>Harbour</i>
<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>Belges, Tanks, Sea</i>	<i>Hatwell Heater</i>	<i>Sea</i>
<i>Condr. Drywell Boilers</i>	<i>Boilers</i>	<i>Heater</i>
<i>Deck, Auxy Condr.</i>	<i>Main & Auxy</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. & L.P.	" Junk Ring Bolts Studs	12
" Piston Rods	-	" Connecting Rods	-
" Valve Spindles	H.P. & L.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 check valves
 100 ferrules for condenser
 1 impeller for circulating pump.
 Bolts, plate & bar 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 Inglefield"*

as ascertained by me from personal examination

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

Fees—

MAIN BOILERS.

H.S.

Sq. ft.

G.S.

DONKEY BOILERS.

H.S.

Sq. ft.

G.S.

ENGINES.

L.P.C.

Cub. ft.

Testing, &c.

Expenses

Total

It is submitted that this Report be approved,

Chief Surveyor.

Approved by the Committee,

Fees applied for

Fees paid

Secretary.



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1000

$\frac{21}{275}$

$\frac{72}{55}$
 $\frac{117}{1}$



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