

No. 1772

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1618* No. in Register Book *2866*

" "
S.S. *MINEGARTH*

Makers of Engines *Smiths Dock Co. Ltd.*

Works No. *228*

Makers of Main Boilers *Hawthorne Leslie & Co.*

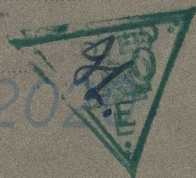
Works No. *8649 no 4.*

Makers of Donkey Boiler ✓

Works No. ✓



MACHINERY.



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Foundation

012124-012123-0127

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

22nd February 1923

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

Single Triple
Twin Quadruple

Screw

Sag.

"Minegarth"

Official No.

Port of Registry

Liverpool

Registered Owners

Rea Sawing Co. Ltd.

Engines Built by

Smiths Dock Co. Ltd.

at

South Bank-on Tees

Main Boilers Built by

Hawthornes Leslie Co. Ltd.

at

Newcastle-on Tyne

Donkey

at

Date of Completion

12-22

First Visit

8-8-22

Last Visit

21-12-22

Total Visits

35

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RECIPROCATING ENGINES.

Works No. *228* No. of Sets *1* Description *Triple expansion.*
C.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 *18.6*
Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr?

" " " each Receiver?

Type of H.P. Valves,

" 1st I.P. "

" 2nd I.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

Piston " "

Crossheads, " "

Connecting Rods, Finished by

Piston " "

Crossheads, " "

Date of Harbour Trial

" Trial Trip

Trials run at,

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

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

Pressure in 1st I.P. Receiver, *58* lbs., 2nd I.P., *8.94* lbs., Vacuum, *25.6* ins.

Speed on Trial *10.58*

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

data:—

Builders' estimated I.H.P.

Estimated Speed



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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?			
Diar. of 1st Reduction Pinion		} Width	Pitch of Teeth
„ 1st „	Wheel		
Estimated Pressure per lineal inch			
Diar. of 2nd Reduction Pinion		} Width	Pitch of Teeth
„ 2nd „	Wheel		
Estimated Pressure per lineal inch			
Revs. per min. of H.P. Turbines at Full Power			S.H.P.
„ „	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	Knots.	Propeller Revols. per min.	S.H.P.
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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Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed ?

Description of Motors

Diar. of 1st Reduction Pinion

.. 1st .. Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

" 2nd " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revol. per min. of Generators at Full Power

Motors

" 1st Reduction Shaft

“ 2nd ”

„ Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial:

22 Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revols. per min.

S.H.P.

Generators

Meters

Reduction Gear

Turbine Spindles forged by

Wheels forged or cast by

Reduction Gear Shafts forged by

Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

At Corbridge

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SHAFTING.

Are the Crank Shafts Built or Solid?

No. of Lengths in each

Angle of Cranks

Diar. by Rule

Actual

In Way of Webs

„ of Crank Pins

Length between Webs

Greatest Width of Crank Webs

Thickness

Least „ „

Diar. of Keys in Crank Webs

Length

„ Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. „ Rings

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

„ „ Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shaft by Rule

Actual

At Couplings

Are Propeller Shafts Fitted with Continuous Brass Liners?

Diar. 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?

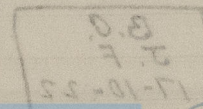
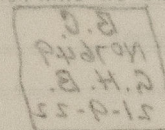
SKETCH OF CRANK SHAFT.

Material of Shafts
 No. of Bolts each Propeller
 Coefficient of Displacement of Vessel as Mounted Depth
 Material of Propeller
 Thrust Shafts
 Intermediate
 Propeller
 Crank
 Thrust
 Intermediate
 Propeller

Crack Shafts Formed by
 Pins
 Webs
 Thrust Shafts
 Intermediate
 Propeller

Material of Shafts
 No. of Bolts each Propeller
 Coefficient of Displacement of Vessel as Mounted Depth
 Material of Propeller
 Thrust Shafts
 Intermediate
 Propeller
 Crank
 Thrust
 Intermediate
 Propeller

STAMP MARKS ON SHAFTS



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No. of Blades each Propeller

Fitted or Solid?

Material of Blades

Boss

Diam. of Propellers

Pitch

Surface (each

S. ft.

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

Crank Shafts Forged by

Material

" Pins "

" Webs "

Thrust Shafts "

Intermed. " "

Propeller " "

Crank " Finished

Thrust " "

Intermed. " "

Propeller " "

STAMP MARKS ON SHAFTS.

Crank Shaft

B.C.
 No 7649
 G.H.B.
 21-9-22

Thrust & Tail
Shafts

B.C.
 J. F.
 17-10-22

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps

Worked by Main or Independent Engines?

No. of Condensing Pumps

Type of

Diam. of

Has each Pump a High Section with 2 or more Valves?

What other Pumps can operate through Condenser?

No. of Feed Pumps on Main Engines

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 High Pumps on Main Engines

Can one Pump be overhauled while the others are at work?

No. of Independent High Pumps

What other Pumps can draw from the bilges?

Are all High Sections fitted with Valves?

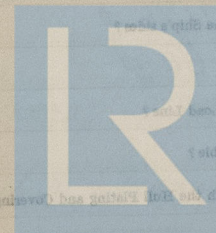
Are the Valves etc. so arranged as to prevent unintentional connection between Gas and Bilges?

Are all Gas Connections marked with Valves or Connections the Ship's side?

Are the Discharge Pipes placed above or below the Prop. Shaft?

Are they fitted with Ball Valves or other easily accessible?

Are all Blow-off Pipes or Valves fitted with Ball Valves and covering Plates or Flanges?



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PUMPS, ETC. TO HOTEL

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 Roses?

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 Tubes in each

Type of Tubes

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

Specimen of Brandy

Can Boilers be worked separately?

Makers of Boilers

Day Date

Boiler

Pressure

Greatest Internal Diameter of Boilers

Length

Boilers Test of Strength

Grade

No. of Tubes in each

Boiler

No. of Tubes in each

Boiler



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BOILERS.

Works No.

No. of Boilers

Type

Single or Double-ended

No. of Furnaces in each

Type of Furnaces

Date when Plan 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 Draught

Can Boilers be worked separately?

Makers of Plates

" Stay Bars

" Rivets

" Furnaces

Greatest Internal Diam. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

" " Grate " "

No. of Safety Valves each Boiler

Rule Diam.

Actual

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

No. of Water Gauges

" Test Cocks

" Salinometer Cocks

8649 no 14.
Cylindrical multitubular.
single

3
Morrison.

3-8-22

200 lbs.

350

8-11-22

12-12-22

205 lbs.

12-12-22

209 lbs.

Natural.

Yls.
Jno. Spencer & Sons.

do
R. B. & T. Co. Ltd.
James Marshall & Co.

14'-0" $\frac{13}{32}$ "

11'-9"

2126 $\frac{1}{2}$ "60 $\frac{1}{2}$ "

2

3"

Yls.

2

1

3

1

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

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 Blow-off Cocks or Valves fitted on Boiler Shells?

No. of Stakes of Shell Plates in each Boiler

Plates in each Stakes

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Stems Butt or Lap Joints?

Are the Butt Stamps Single or Double?

Are the Double Butt Stamps of equal width?

Thickness of outside Butt Stamps

Joints

Are Longitudinal Stems Hand or Machine Riveted?

Are they Single, Double, or Triple Riveted?

No. of Rivets in a Pitch

Test Mark on Boilers: —

B. C.
No 3913.
350 lbs.
W. P. 200 lbs.
H. N.
8-11-22

Size of Compensation Ring
Staked $\frac{13}{32}$ " Port $\frac{3}{8}$ "

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

Thickness of End Plates in Steam Space Approved

in Boilers

Thickness of Steam Space Straps

Approved Thickness per inch

in Boilers

Material of

How are Straps Connected?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Width of

Thickness of Middle Back End Plates Approved

in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Width of Straps at

Diar. of Straps Approved Thickness per inch

in Boilers

Material of

Are Straps fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

in Boilers

Width of Straps at Wide Spaces between Fireboxes

Thickness of Doublings in

Thickness of Front End Plates at Bottom Approved

in Boilers

No. of Rows of Rivets in



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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

Threads per Inch

Thickness of Plates Approved

" " " " " in Boilers

Material

Thickness of Front End 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 Ends?

Thickness of Back End Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " " " Plain

Thickness of Stay Tubes

" " " " " Plain

External Diam. of Tubes

Material

" " " " "

Thickness of Furnace Plates Approved

" " " " " in Boilers

Smallest outside Diam. of Longitudinal

Length between Tubes

" " " " "

Width of Compound Gaskets (front to back)

" " " " "

" " " " "

Pitch of Stayed Stays in C.O. Tube



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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.O. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

External Diam. of Tubes

Are all Screwed Stays fitted with Nuts inside C.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

VERTICAL DONKEY BOILERS

No. of Boilers

Height of Boiler Crown above Fire Grate

Are Boiler Crown Flat or Dished?

Internal Radius of Dished Boilers

Thickness of Plates

Description of Stays in Boiler Crown

Diam. of Rivet Holes

Height of Firebox Crown above Fire Grate

Are Firebox Crown Flat or Dished?

External Radius of Dished Crown

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Compensation Ring

Heating Surface, each Boiler

SUPERHEATERS

Description of Superheaters

Where situated?

Which boiler are connected to Superheater?

Can Superheaters be shut off while boilers are working?

No. of Safety Valves on each Superheater

Date of Hydrostatic Test

Date when Safety Valves set



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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

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



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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

4
Copper.
S. D.
4 1/2"
5 W.S.
braked
7-12-27
400 lbs.



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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 sp. Carlgarth

No.	Type	
Makers		
Working Pressure	Test Pressure	Date of Test



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OTHER ARTICLES OF SPARE GEAR:—

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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.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
Engine Compartment				
Boiler				
Current Metering or Controlling				
Single or Double Wire System				
Location of System				
Main Switch Board				
No. of Circuits in which Switches are provided or used				
Particulars of these Circuits—				
Circuit	Normal	Normal	Normal	Normal
	Emergency	Emergency	Emergency	Emergency

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

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ELECTRIC LIGHTING.

No. and Description of Dynamos

Capacity	Amperes, at	Volts,	Revol. per Min.
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Single or Double Wire System

Main Switch Board

Particulars of these Circuits:—

Total No. of Lights	No. of Motors driving Fans, &c.	No. of Heaters
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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96	96	96
97	97	97
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99	99	99
100	100	100

Current required for Motors and Heaters

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 Dismantling, Motor, Main and Branch (Light) Pipes, so placed that the Company are

able to inspect them?

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

What does the Resistance amount to?

Is the Installation supplied with a Venturi?

What is the Duration of Trial of complete Installation?

Have all the requirements of Section 43 been satisfactorily carried out?

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.*

Are they placed so as to be always and easily accessible?

Do they comply with the Rules and Regulations?

Wherever a Cable is required in use?

To each Lamp Glass?

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.*

Are they placed so as to be always and easily accessible?

Do they comply with the Rules and Regulations?

The above correctly describes the Machinery of the S.S. *"Minegarth"*

as ascertained by *me* from personal examination

What special machinery is provided in the following cases?

On Construction required by Rule 10 of 1904?

(1) *John D. Stephenson*

(2) *Engineer Surveyor to the British Corporation for the*

Survey and Registry of Shipping.

Fees—

MAIN BOILERS.

H.S. *2126* Sq. ft. £ *14* : *4* : *5*

G.S. *60.5* „ : :

DONKEY BOILERS.

H.S. ✓ Sq. ft. : :

G.S. ✓ „ : :

£ : :

ENGINES.

L.P.O. *18.6* Cub. ft. *18* : *10* : *0*

£ : :

Testing, &c. ... : :

£ : :

Expenses ... : :

Total ... £ *32* : *14* : *5*

It is submitted that this Report be approved.

John D. Stephenson
Chief Surveyor.

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

7th March 1923

Fees advised

Fees paid



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