

No. 565

TRANSFERRED TO:
L. R. SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *538* No. in Register Book *1060*

S. Iceland "Terawhiti"
salvage steamer

Makers of Engines *Ramage & Ferguson Ltd.*

Works No. *210*

Makers of Main Boilers *Ramage & Ferguson Ltd.*

Works No. *210*

Makers of Donkey Boiler *(None fitted) Merryweather*
(salvage boiler fitted)

Works No. TRANSFERRED TO:
L. R. SYSTEM.

MACHINERY.



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002127-002137-0022

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *538*

No. in Register Book *1060*

Received at Head Office

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the *Steel screw towing and
salvage steamer "Serawiti"*

Port of Registry *Dunedin*

Registered Owners *Union Steamship Co*

Surveyor's District *Leith*

Date of Completion of Engines *21st May 1904*

" " " " Main Boilers *21st May 1904*

" " " " Donkey " *No donkey Boiler*

Trial Run at *Gullane (Firth of Forth)* Date *21st May 1904*

First Visit *14th November 1906*

Last Visit *21st May 1904*

Total Number of Visits *24*



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ENGINES.

Made by *Ramage & Ferguson*
 " at *Leith* Works No. *210*
 Description *Triple Expansion*
 No. of Cylinders, each Engine *3* Diars. *16"-26"-42"* Stroke *24"*
 Cub. feet in each L.P. Cylr. *21.6* Revols. per Min. *124* I.H.P. *850*
 Pressure in I.P. Receiver at full Power *68* 2nd I.P. *10.5* L.P. *10.5*
 Thickness of Metal in H. P. Cylr. *1"* I.P. *1 1/4"* " *1 1/4"*
 " " " " Liner *1 1/4"* " " " " *1"*
 " " " " Valve Chest *1"* " *1"* " *1"*
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *Yes*
 " " " " each Receiver? *Yes*
 Number of ^{Lets} Studs in H.P. Cylr. Cover *18* I.P. *16* 2nd I.P. *18* L.P. *18*
 Eff. Diar. " " " *942"* " *942"* " " *942"*
 Pitch " " " *39"* " *5.78"* " " *7.9"*
 Type of H.P. Valves (Piston or Slide) *Piston* " *Slide* " *Slide*
 " Valve Gear *Stephenson's link*
 Diameter of Piston Rods (plain part) *4 1/4"* At Bottom of Thread *2 15/16"*
 Makers " *Life forge* Material *I. Steel*
 Diameter of Connecting Rods (smallest part) *4 1/8"* Material *Scrap Iron*
 Makers " " *Life forge Kirkaldy*
 Diar. of Crosshead Gudgeons *4"* Length of Bearing *9 1/4"* Material *Steel*
 No. of Top End Bolts (each Rod) *4* Effective Diar. *159* Material *forged iron*
 " Bot. " " *2* " *2.18* " " "
 " Main Bearings *6* Lengths *5 @ 9"* *1 @ 10 1/2"*
 " Bolts in each *2* Effective Diar. *1.41* Material *Iron*

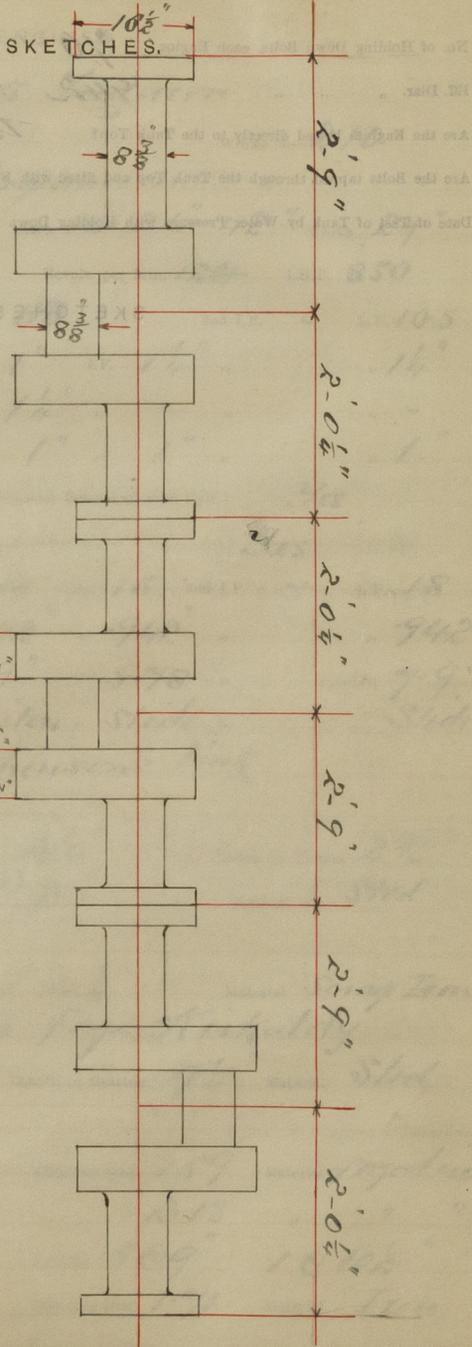
No. of Holding Down Bolts, each Engine *70* No. of Metal ChecksEff. Diar. " " " *942* Average Pitch *21"*Are the Engines bolted directly to the Tank Top? *No Tank top*Are the Bolts tapped through the Tank Top and fitted with Nuts inside? *-*Date of Test of Tank by Water Pressure with Holding Down Bolts in place *-*

SKETCHES.



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SHAFTING.

Are Crank Shafts Built? *Yes* No. of Lengths in each *3* Angle of Cranks *120°*

Diar. of Crank Shafts by Rule *7.95* Actual *8 3/8"* Diar. in Way of Webs *9 1/4"*

Makers of " *Fife forge Co.* Material *I Steel*

Diar. of Crank Pins *8 3/8"* Diar. in Way of Web *8 1/2"*

Makers of " *Fife forge Co.* Material *I. Steel*

Width across Crank Webs at Centre of Shaft *19"* Thickness *5 3/4"*

" " " Crank Pins *15 1/2"* "

" " " Narrowest part *12 3/4"* "

Makers of Crank Webs " Material *I. Steel*

Diar. or Breadth of Keys in Crank Webs *2 1/4" Broad* Length *5 3/4"*

" of Dowel Pins in Crank Pins *1"* Length *4"* Screwed or Plain *Plain*

No. of Bolts in each Coupling *6* Diar. at Mid Length *2"* Diar. of Pitch Circle *12 1/2"*

Material of Coupling Bolts *Wrought Iron*

Crank Shafts Finished by *Ramage & Ferguson L^d*

Greatest Distance from edge of Main Bearing to Crank Web *4"*

Description of Thrust Blocks *Slide shoe rings*

Number " " Rings *Four*

Diar. of Thrust Shafts by Rule *7.95"* Actual (at bot. of Collars) *8 3/8"* Over Collars *14 3/4"*

" " at Forward Coupling *8 3/8"* After Coupling *8 3/8"*

No. of Thrust Collars *4* Thickness *1 1/8"* Distance apart *3 1/2"*

Thrust Shafts Forged by *Fife forge Co.* Material *I. Steel*

" Finished by *Ramage & Ferguson L^d*

Diar. of Intermediate Shafting by Rule *7.58"* Actual *8"*

No. of Lengths, each Engine *1* No. of Tunnel Bearings *1*

Diar. of Bearings *8"* Length *112"* Distance apart

No. of Bolts, each Coupling **6** Diar. at Mid Length **2"** Diar. of Pitch Circle **12 $\frac{1}{2}$ "**
 Intermediate Shafts Forged by *Hifi Forge Co.* Material **I Steel**
 " " Finished by *Ramsey & Ferguson Ltd.*
 Diar. of Propeller Shafts by Rule **8.00** Actual **8 $\frac{7}{8}$ "** At Couplings **8 $\frac{3}{8}$ "**
 Are Propeller Shafts fitted with Continuous Brass Liners? **Yes**
 Diar. over Liners **10 $\frac{3}{16}$ " - 10 $\frac{5}{16}$ "** Length of After Bearings **29" x 11"**
 Of what Material are the After Bearings composed? **Lignum-vitae & Gun-Metal**
 Distance from After Bearing in Stern Tube to nearest Tunnel Bearing **13-2"**
 Are the After Bearings lubricated with Oil or Sea Water? **Sea-water**
 What means are adopted to prevent Sea Water entering the Stern Tubes? **L**
 Propeller Shafts Forged by *Hifi Forge* Material **Iron**
 " " Finished by *Ramsey & Ferguson Ltd.*
 No. of Propellers **1** Diar. **9-4"** Pitch **12-0"**
 " Blades, each Propeller **4** Fitted or Solid **fitted**
 Material of Blades **Brongze** Boss **Cast Iron**
 Surface, each Propeller **8 ft** Diar. of Propeller **114"** Rule Diar. of Crank Shaft **9.94 = 14.03**
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth **.65**

SKETCHES.



" Propeller Shaft Ss. Yuaehit "

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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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SKETCHES.

SKETCHES.

[Faint, mostly illegible text and sketches on the left page, including some handwritten notes and diagrams.]

No. of Air Pumps
 Type of
 Dia. of Air Pump Rod
 How are Air Pumps Worked?
 No. of Vertical Circulating Pumps
 Reciprocating
 Dia. of Horizontal Circulating Pump Rod
 How are Circulating Pumps Worked?
 Dia. of Circulating Pump Section from Sea
 Has each Circulating Pump a Rising Section with Non-return Valve?
 No. of Feed Pumps on each Engine
 Where do they pump from?
 Discharge to?
 Are Spring-loaded Relief Valves fitted to each Pump?
 Can one Pump be overhauled while the others are at work?
 No. of Bilge Pumps on each Engine
 Where do they pump from?
 Discharge to?
 Can one Pump be overhauled while the others are at work?
 No. of Bilge Inletions connected to Containment
 In the Vertical Tank and from an engine as to vertical connection between sea and bilge.

[Handwritten notes and sketches on the right page, including:
 - "1" and "2" with "Stoke" and "Dia." labels.
 - "Off Main engine"
 - "Bilge"
 - "Discharge to"
 - "Main Tank"
 - "Relief Valve"
 - "Overboard"
 - "No. of Bilge Pumps on each Engine"
 - "Where do they pump from?"
 - "Discharge to?"
 - "Can one Pump be overhauled while the others are at work?"
 - "No. of Bilge Inletions connected to Containment"
 - "In the Vertical Tank and from an engine as to vertical connection between sea and bilge."
]



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PUMPS, ETC

No. of Air Pumps *1* Diar. *13"* Stroke *15"*
 Type of *Edward's*

Diar. of Air Pump Rod *2"* Material *Delta Metal*
 How are Air Pumps Worked? *off main engines*

No. of Centrifugal Circulating Pumps *1* Maker *Gwynnes Ltd.*
 " Reciprocating " " *-* Diar. *-* Stroke *-*

Diar. of Circulating Pump Rods *2"* Material *Bronze*
 How are Circulating Pumps Worked? *Separate engine (Circulating)*

Diar. of Circulating Pump Suction from Sea *4"*
 Has each Circulating Pump a Bilge Suction with Non-return Valve? *Yes* Diar. *4 1/2"*

No. of Feed Pumps on each Engine *2* Diar. *2 3/4"* Stroke *15"*
 Where do they pump from? *Hot well*
 " " discharge to? *Main Boiler*

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. *3 1/2"* Stroke *15"*
 Where do they pump from? *Eng. Room, Stok. hold, P. Hold, & Jummel.*
 " " discharge to? *Overboard*

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

No. of Bilge Injections connected to Condensers *None* 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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BOILER

Boilers made by *Messrs. Ramage & Ferguson*
 " at *Leith*
 Works No. *210*
 Date when Plan approved *November 2nd 1906*
 Boiler Plates, Iron or Steel *Steel*
 Makers of Shell Plates *D. Colville & Son.*
 " Internal Plates *do.*
 " Furnaces *J. Piggott*
 " Stay Bars *D. Colville & Son*
 " Rivets *J. Miller Co.*
 Material tested by (B.C., B.T., etc.) *B. C.*
 No. of Boilers *One*
 Single or Double-ended *Single-ended*
 No. of Furnaces, each Boiler *Three*
 Type of Furnaces *Morrison*
 Approved Working Pressure *180 lbs.*
 Hydraulic Test Pressure *360 lbs. pr. sq. in.*
 Date of Hydraulic Test *2nd April 1904*
 " when Safety Valves set *14th May 1904*
 Pressure on Valves *180 lbs.*
 Date of Steam Accumulation Test *14th May 1904*
 Max. Pressure under Accumulation Test *187 lbs.*
 System of Draught *Natural*
 Can Boilers be worked separately?
 Greatest Inside Diam. of Boiler *15'-3"*
 " " Length " *10'-6"*
 Square Feet of Heating Surface, ^{IN} each Boiler *2085.3*
 " Grate " " *69 sq. ft.*



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No. of Safety Valves, each Boiler *Two 3" valves*

Diar. " " " *3"*

Area " " " *14-10" Total*

Are the Valves fitted with Easing Gear? *Yes*

No. of Pressure Gauges, each Boiler *1*

" Water " " *1*

" Test Cocks, " *3*

" Salinometer Cocks, " *1*

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

Are these Pipes connected to Boilers by Cocks or Valves? *Cocks*

Are Blow-off Cocks or Valves fitted on Boiler Shells? *Cocks*

No. of Strakes of Shell Plating in each Boiler *1*

" Plates in each Strake *2*

Thickness of Shell Plates by Rule *19.9"*

" " Approved *16*

" " in Boilers *22.25"*

Are the Rivet Holes Punched or Drilled? *Drilled*

Are Rivets Iron or Steel? *Steel*

Are the Longitudinal Seams Butt or Lap Joints? *Butt Joints*

Are the Double Butt Straps of equal width? *Yes*

Thickness of outside Butt Straps *1 25/64"*

" inside " *1 25/64"*

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted? *Treble riveted*

Diar. of Rivet Holes *1 7/16"*

Pitch " *9 3/4"*

Width of Overlap *2 1/8"*

Percentage of Strength in Longitudinal Seams *85.3-Plate-Rivet = 90%*

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

Are these Rows Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

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

Are these Rows Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Width of Overlap

Size of Mandrels in Shell

Dimensions of Compressing Pipes

Thickness of End Plates in Steam Space by Rule

Approved

in Boilers

Thickness of Crown Space Space

HT. from

Approved

in Boilers

Material of

How are they secured?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Welded

Thickness of Shell Plates by Rule

Approved

in Boilers

Material of

How are they secured?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Welded

Thickness of Shell Plates by Rule

Approved

in Boilers

Material of

How are they secured?

Diar. and Thickness of Loose Washers on End Plates

Riveted

Welded



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Are Stay Tubes fitted with Nuts at Front End?

No

Thickness of Back Tube Plates by Rule

$\frac{9.33}{16}$ "

" " " Approved

" "

" " " in Boilers

$\frac{13.5}{16}$ "

Pitch of Stay Tubes in Back Tube Plates

45 x 9 $\frac{1}{4}$ "

" Plain "

4 $\frac{3}{4}$ x 4 $\frac{5}{8}$ "

Thickness of Stay Tubes

$\frac{3}{16}$ "

" Plain "

N^o 8 W.G.

External Diar. of Tubes

3 $\frac{1}{2}$ "

Material " "

Iron

Thickness of Furnace Plates by Rule

$\frac{9.33}{16}$ "

" " " Approved

" "

" " " in Boilers

$\frac{10}{16}$ "

Smallest outside Diar. of Furnaces

47.25"

Length between Tube Plates

7-1 $\frac{3}{32}$ "

Width of Combustion Chambers (Front to Back)

30"

Thickness of " " " Tops, by Rule,

$\frac{10.21}{16}$ "

" " " " Approved

" "

" " " " in Boilers

$\frac{10.5}{16}$ "

Pitch of Screwed Stays in C.C. Tops

wings 9 x 8 $\frac{5}{8}$ " Centre 8 $\frac{5}{8}$ x 8"

Eff. Diar. " " " by Rule

1.42"

" " " " Approved

" "

" " " " in Boilers

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

Material " "

Steel

Thickness of Combustion Chamber Sides by Rule

$\frac{10.21}{16}$ "



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Thickness of Combustion Chamber Sides Approved	$\frac{10.21}{16}$ "
" " " " in Boilers	$\frac{10.5}{16}$ "
Pitch of Screwed Stays in C.C. Sides	$9" \times 8 \frac{5}{8}"$
Eff. Diar. " " by Rule	1.42 "
" " " Approved	" "
" " " in Boilers	1.625 "
Material " "	Steel
Thickness of Combustion Chamber Backs by Rule	$\frac{10.4}{16}$ "
" " " " Approved	" "
" " " " in Boilers	$\frac{11}{16}$ "
Pitch of Screwed Stays in C.C. Backs	$9 \frac{5}{8}" \times 8 \frac{5}{8}"$
Eff. Diar. " " by Rule	1.52 "
" " " Approved	" "
" " " in Boilers	1.608 "
Material " "	Steel
Are all Screwed Stays fitted with Nuts inside C.C.	Yes
Thickness of Combustion Chamber Bottoms	1 "
No. of Girders over each Wing Chamber	Two
" " " Centre "	Four
Depth and Thickness of Girders	$8" \times \frac{13}{16}"$
Material of Girders	Steel
No. of Stays in each	Two
No. of Stay Tubes, ^{1/2} each Boiler	80
" " Plain " " "	179
Size of lower Manholes	$16" \times 12"$

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.

Vertical Donkey Boilers
 Description of Boilers
 Type of Boilers
 Material of Boilers
 Thickness of Boilers
 Pitch of Boilers
 Eff. Diar. of Boilers
 Material of Boilers
 No. of Boilers
 Are they fitted with Nuts inside?

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 *Manyweather Boiler (patent)*
 Height of Boiler Crown above Fire Grate *for salvage purposes.*
 Are Boiler Crowns Flat or Dished? *Diag. of Boiler = 4'-0"*
 Internal Radius of Dished Ends *Height Thickness of Plates = 8-1 1/2"*
 Description of Seams in Boiler Crowns *Heating Surface = 256 sq*
 Diar. of Rivet Holes *Grate " = 17 sq*
 Height of Firebox Crowns above Fire Grate *Tubes 1 1/2' Diag.*
 Are Firebox Crowns Flat or Dished? *157 Tubes in Boiler*
 External Radius of Dished Crowns *95* Thickness of Plates *-*
 No. of Crown Stays *-* Effective Diar. *50* Material *-*
 External Diar. of Firebox at Top *-* Bottom *-* Thickness of Plates *-*
 No. of Water Tubes *-* Int. Diar. *408* " " *-*
 Material of Water Tubes *-* *Steel* *-*
 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

SKETCHES.



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MAIN STEAM PIPES.

No. of Lengths	4			
Material	S. D. Kohler			
Brazed, Welded, or Seamless	Brazed			
Internal Diam.	5"			
Thickness	H. D. W. G.			
How are Flanges Secured?	Brazed.			
Date of Hydraulic Test	4/5/04			
Test Pressure	400 lbs.			

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

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 *Sunduland Forger & Co.*
 No. and Description of Dynamos *One Compound wound*
 Makers of Dynamos *Siemens Dynamo (S.F. & Co. engine)*
 Capacity „ *70* Amperes, at *100* Volts, *350* Revols. per Min.
 Current Alternating or Continuous *Continuous*
 Position of Dynamos *In engine room*
 „ Main Switch Board *In engine room*
 No. of Circuits to which Switches are provided on Main Switch Board *3*

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.
<i>1</i>	<i>Aft</i>	<i>16</i>	<i>16</i>	<i>9.6</i>	<i>7/18</i>	<i>950</i>	<i>12.7</i>	<i>megohms. 600</i>
<i>2</i>	<i>C. Room</i>	<i>15</i>	<i>16</i>	<i>9.0</i>	<i>7/18</i>	<i>900</i>	<i>12.7</i>	<i>600</i>
<i>3</i>	<i>For^d. + Deck.</i>	<i>38</i>	<i>16</i>	<i>22.8</i>	<i>7/16</i>	<i>1000</i>	<i>22.5</i>	<i>600</i>

Total No. of Lights *69* No. of Motors driving Fans, &c. *None* No. of Heaters *None*

Current required for Motors and Heaters *(None fitted)*



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

*1 in Galley
having 4 switches for deck, and
one in chart room having switches for
side lights, masthead & compass lights.*

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

Yes

On Aux. " " each Auxiliary Circuit

Yes

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

How are Conductors in Engine and Boiler Spaces protected? *cables in iron pipes*

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

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

cables in iron pipes

(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? *No joints*

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces? *None*

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? *Double wire*

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*

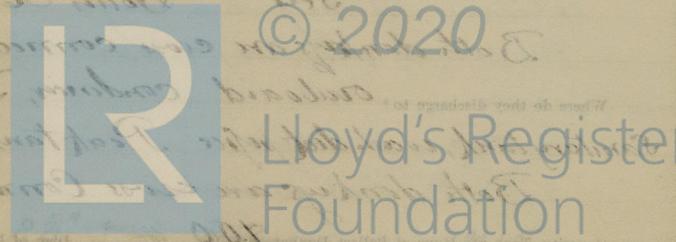
Has the Insulation Resistance over the whole system been tested? *Yes*

What does the Resistance amount to? *1.8 meg Ohms.*

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

" " " an Ampere Meter? *No*

Date of Trial of complete Installation *21/5/07* Duration of Trial *8 hours.*



EVAPORATORS.

No. *None fitted* Tons per Da *-*
 Makers *-*
 Working Pressure *-* Test Pressure *-* Date of Test *-*
 Date of Test of Safety Valves under Steam *-*

FEED WATER HEATERS.

No. *-* Type *None fitted*
 Makers *-*
 Working Pressure *-* Test Pressure *-* Date of Test *-*

DONKEY

No. of Donkeys *Two.*
 Type *Vertical duplex - Horizontal feed pump*
 Makers *Worthington Co. Ltd.*
 Single or Duplex *Duplex Duplex*
 " Double-Acting *Double Double*
 Diam. of Steam Cylinders *5 1/4" 6"*
 " Pumps *3 1/2" 3 1/2"*
 Stroke of " *5" 6"*
 Where do they pump from? *Bilges Peak Tanks F.W. Tanks*
Sea Boilers Hotwell

Both donkeys are cross connected

Where do they discharge to? *Overboard condenser, Boilers*

Sanitary tank, wash dead pipes Peak tanks

Both donkeys are cross Connected

Capacity, Tons per Hour of Ballast Donkey *100* Diam. of Pipe required by Rule for

FEED WATER FILTERS.

No. *1* Type *Sentinel patent* Size *2 1/2"*
 Makers *May & Macellan Ltd*
 Working Pressure *150 lbs.* Test Pressure *432* Date of Test *23/5/04*

FORCED DRAUGHT FANS.

No. of Fans *12* Diam. *18"* Revols. per min. *-*
 How are Fans driven? *-*

PUMPS.

Circulating pumps *Circulating pumps*
Gwynne's *(for Sakiage purposes)*
draws from sea *draws from sea*
detrain overboard *or from any source*
thru. Condenser & *outside vessel and*
has bilge injection *detrain overboard*
connected to pump. *or to run outside*
in case of fire



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largest Ballast Tank

2 1/2"

Velocity of Water in Pipe

14/15

GENERAL CONSTRUCTION

Fees—

MAIN BOILER

H.S. 2085.3 Sq. ft. : : :

G.S. 69.0 " " : : :

70 DONKEY BOILER

H.S. - - - - - Sq. ft. : : :

G.S. - - - - - " " : : :

£ : : :

ENGINES

L.P.C. 21.64 Cub. ft. : : :

£ : : :

Testing, &c. : : :

£ : : :

Expenses ... : : :

Total ... £ : : :

It is submitted that this Report be approved,

John King
Chief Surveyor.

Approved by the Committee,

Fees applied for

Fees paid

Secretary.



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Main Division

2065-3

69-0

70

Revenue

21-64

Expenses

Expenses

Total

It is submitted that this Report is approved.

John King

Approved by the Commission

Fee applied for

Fee paid



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