

No. 1565

TRANSFERRED TO:
L R. SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY

AND
RETAIN
REGISTRY OF SHIPPING.

Report No. 1460 No. in Register Book 2613

TRANSFERRED TO:
L R. SYSTEM

S.S. "ARANMORE" M.M. "CHARINA"

Makers of Engines HAWTHORNS & CO. LTD.

Works No. 178

Makers of Main Boilers J.G. KINCAID & CO. LTD.

Works No. 69

Makers of Donkey Boiler —

Works No. —

MACHINERY.



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W.S. 597

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002024-002037-0141

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1460 No. in Register Book 2613

Received at Head Office 25th January 1921

Surveyor's Report on the Detw Engines, Boilers, and Auxiliary
Machinery of the ^{Single Screw} ~~Steam Quadruple~~ Screw "ARANMORE"

Official No.

Port of Registry

Glasgow.

Registered Owners

Clyde Shipping Co Ltd.

Engines Built by

Hawthorn & Co. Ltd.

at

Leith.

Main Boilers Built by

J. G. Kincaid & Co. Ltd.

at

Glenock.

Donkey " "

at

Date of Completion

6-1-21.

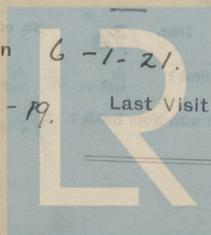
First Visit

20-3-19.

Last Visit

6-1-21.

Total Visits 76.



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RECIPROCATING ENGINES.

Works No. 178 No. of Sets *one* Description *Triple*
Expansion Surface Condensing

No. of Cylinders each Engine *one* No. of Cranks *three*
 Diars. of Cylinders *20" 33" 53"* Stroke *39"*
 Cubic feet in each L.P. Cylinder *49.5*
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? *Yes.*
 " " " each Receiver? *Top & bottom of 1st & 2nd L.P.*
 Type of H.P. Valves, *Piston valve.*
 " 1st L.P. " *Andrews' Common Patent Double Balanced Slide Valve.*
 " 2nd L.P. " *—*
 " L.P. " *Double Ported Slide Valve.*
 " Valve Gear *Stephensons Double Bar Link Gear.*
 " Condenser *Cylindrical steel* Cooling Surface *1,600* sq. ft.
 Diameter of Piston Rods (plain part) *5 1/4"* Screwed part (bottom of thread) *3.93"*
 Material " *Mild steel.*
 Diar. of Connecting Rods (smallest part) *5"* Material *Mild steel*
 " Crosshead Gudgeons *5 1/2"* Length of Bearing *6 1/8"* Material *Mild steel*
 No. of Crosshead Bolts (each) *2* Diar. over Thrd. *2 1/4"* Thrds. per inch *6* Material *Steel*
 " Crank Pin " *2* " *3"* " *6* " *Steel*
 " Main Bearings *6 6* Lengths *11 1/2"*
 " Bolts in each *2* Diar. over Thread *2 1/4"* Threads per inch *6* Material *Steel*
 " Holding Down Bolts, each Engine *84* Diar. *1 3/8"* No. of Metal Chocks *84*
 Are the Engines bolted to the Tank Top or to a Built Seat? *Tank Top.*
 Are the Bolts tapped through the Tank Top and fitted with Nuts Inside? *Yes.*
 If not, how are they fitted? *—*

Connecting Rods, Forged by *Messrs Steel Beach & Leger Ltd.*

Piston " " " " " "

Crossheads, " " " " " "

Connecting Rods, Finished by *Messrs Hawthorns & Co Ltd.*

Piston " " " " " "

Crossheads, " " " " " "

Date of Harbour Trial *24-12-20.*

" Trial Trip *27-12-20.*

Trials run at *Firth of Forth.*

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

If so, what was the I.H.P.? *1480.* Revols. per min. *88.*

Pressure in 1st L.P. Receiver, *60* lbs., 2nd L.P., *—* lbs., L.P., *9.5* lbs., Vacuum, *26* ins.

Speed on Trial *12.76.*

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

Builders' estimated I.H.P. *1500* Revols. per min. *90*

Estimated Speed *13.5 knots.*



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TURBINE ENGINES.

Works No. _____ Type of Turbines _____
 No. of H.P. Turbines _____ No. of L.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? _____

Revs. per min. of H.P. Turbines at Full Power _____

" " 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 _____

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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TURBINE ENGINES

No. of Turbine Engines
Type of Turbine
No. of H.P. Turbines
No. of I.P. Turbines
No. of S.P. Turbines

Is the Propeller shaft driven direct by the Turbine or through gearing?

Is the Turbine in Double Reduction (two engines)?

Is the Turbine in H.P. Turbine or Full Power?

H.P.

I.P.

Is Reduction Shaft

Yes

No

Total Shaft Horse Power

Is the Turbine Total

Yes

No

Speed in RPM

Turbine Engines forced by

Woods (used in case of)

Reduction gear shaft (used in case of)

Woods (used in case of)

DESCRIPTION OF INSTALLATION

TURBO-ELECTRIC PROPPELLING MACHINERY

No. of Turbo-propelling units
Capacity of each
Type of Turbine engine
Description of installation

Is the propeller shaft driven direct by the turbine or through gearing?

Is the turbine in double reduction (two engines)?

Is the turbine in H.P. turbine or full power?

H.P.

I.P.

No. of Motors driving propeller shaft

Are the Propeller shafts driven direct by the Motors or through gearing?

Is single or double reduction gear employed?

Description of Motors

Is the propeller shaft driven direct by the turbine or through gearing?

Motor

Installation

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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets — Capacity of each —
 Type of Turbines employed —
 Description of Generators —

No. of Motors driving Propeller Shafting —

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

Is Single or Double Reduction Gear employed? —

Description of Motors —

Revs. per min. of Generators at Full Power —

” ” Motors ” —

” ” Propellers ” —

Total Shaft Horse Power —

Date of Harbour Trial —

” Trial Trip —

Trials run at —

Makers of Turbines —
 ” Generators —
 ” Motors —
 ” Reduction Gear —

Turbine Spindles forged by —

” Wheels forged or cast by —

Reduction Gear Shafts forged by —

” Wheels forged or cast by —



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BOILERS.

Works No. 69

No. of Boilers 2 Type *Cylindrical multitubular.*
Single or Double-ended *Single.*

No. of Furnaces in each 3

Type of Furnaces *Deighton.*

Date when Plan approved 31-3-19.

Approved Working Pressure 180 lbs/0"

Hydraulic Test Pressure 320 "

Date of Hydraulic Test 25-6-20

„ when Safety Valves set 185 lbs.

Pressure at which Valves were set 24-12-20.

Date of Accumulation Test 27-12-20

Maximum Pressure under Accumulation Test 195 lbs.

System of Draught *Natural.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *Shell: Beardmore & Co. Flange: Port Talbot Steel Co. Wrapper: ditto. Furnace: Leeds Forge Co.*

„ Stay Bars *Steel: Colville. Iron: Scot. Iron & Steel Co.*

„ Rivets *North West Rivet, Bolt & Nut Co.*

„ Furnaces *Leeds Forge Co Ltd*

Greatest Internal Diam. of Boilers 14'-10"

„ „ Length „ 12'-8"

Square Feet of Heating Surface each Boiler 2019

„ „ Grate „ „ 44.5

No. of Safety Valves each Boiler 2 Diar. 2 3/4"

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

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

„ Test Cocks „ *None.* „ Salinometer Cocks 1.



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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *Fitted to Pillars.*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pips? *Boiler shells*

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

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

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

„ Plates in each Strake *2*

Thickness of Shell Plates Approved *1 1/32*

„ „ in Boilers

Are the Rivets Iron or Steel? *Steel.*

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

Are the Butt Straps Single or Double? *Double.*

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

Thickness of outside Butt Straps *15/16*

„ inside „ *15/16*

Are Longitudinal Seams Hand or Machine Riveted? *Machine.*

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

No. of Rivets in a Pitch *5*

Diar. of Rivet Holes *1 1/32* Pitch *8 5/8*

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 *2*

Are these Seams Hand or Machine riveted? *machine.*

Diar. of Rivet Holes *1 1/32* Pitch *3.519.*

No. of Rows of Rivets in Back End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *machine.*

Diar. of Rivet Holes *1 1/32* Pitch *3.519.*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *2'-9 1/2" x 2'-5 1/2"*



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Thickness of End Plates in Steam Space Approved $1\frac{9}{32}$ "

" " " " " in Boilers

Pitch of Steam Space Stays $1'-8\frac{1}{8}"$

Diar. " " " " Approved $3\frac{5}{8}"$ Threads per Inch 8

" " " " " in Boilers

Material of " " " Steel.

How are Stays Secured? Nuts loose washers both sides.

Diar. and Thickness of Loose Washers on End Plates $10\frac{1}{8}" \times \frac{1}{8}"$

" " Riveted " " "

Width " " Doubling Strips " " (none.)

Thickness of Middle Back End Plates Approved (see below.)

" " " " " in Boilers "

Thickness of Doublings in Wide Spaces between Fireboxes (none.)

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 $\frac{1}{8}"$

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " " (none.)

Thickness of Front End Plates at Bottom Approved $1\frac{3}{32}"$

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces 3 (each space.)



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Diar. of Stays Approved $2''$ Threads per Inch $13 \frac{1}{2}$ 8
 " " in Boilers
 Material " Steel . 1483
 Thickness of Front Tube Plates Approved $1 \frac{3}{32}''$
 " " " " in Boilers
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $1' - 3 \frac{5}{8}''$ both sides
 Thickness of Doublings in " " " (none)
 " Stay Tubes at " " " $\frac{5}{16}''$ and $\frac{3}{8}''$
 Are Stay Tubes fitted with Nuts at Front End? no.
 Thickness of Back Tube Plates Approved $2 \frac{7}{32}''$
 " " " in Boilers
 Pitch of Stay Tubes in Back Tube Plates $9 \frac{1}{4}''$
 " Plain " $4 \frac{5}{8}''$
 Thickness of Stay Tubes $\frac{5}{16}''$
 " Plain " 9 wog.
 External Diar. of Tubes $3 \frac{1}{4}''$
 Material " wrought iron.
 Thickness of Furnace Plates Approved $1 \frac{7}{32}''$
 " " " in Boilers
 Smallest outside Diar. of Furnaces $3' - 5 \frac{1}{16}''$
 Length between Tube Plates $4' - 9''$
 Width of Combustion Chambers (Front to Back) $3' - 10''$ (outside)
 Thickness of " " Tops Approved $\frac{11}{16}''$
 " " " " in Boilers
 Pitch of Screwed Stays in C.C. Tops $8 \frac{1}{2}''$

Diar. of Stays Approved $1 \frac{1}{2}''$ Threads per Inch
 " " in Boilers
 Material " wrought iron
 Thickness of Front Tube Plates Approved $1 \frac{1}{16}''$
 " " " " in Boilers
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $10' - 10''$
 Thickness of Doublings in " " " 11
 " Stay Tubes at " " " $1 \frac{1}{8}''$
 Are Stay Tubes fitted with Nuts at Front End?
 Thickness of Back Tube Plates Approved $2 \frac{1}{32}''$
 " " " in Boilers
 Pitch of Stay Tubes in Back Tube Plates $8' - 8''$
 " Plain " 11
 Thickness of Stay Tubes
 " Plain " wrought iron
 External Diar. of Tubes
 Material " wrought iron
 Thickness of Furnace Plates Approved
 " " " in Boilers
 Smallest outside Diar. of Furnaces
 Length between Tube Plates
 Width of Combustion Chambers (Front to Back)
 Thickness of " " Tops Approved
 " " " " in Boilers
 Pitch of Screwed Stays in C.C. Tops



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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



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how many. x

MAIN STEAM PIPES.

No. of Lengths	2	2
Material	Copper	Copper
Brazed, Welded or Seamless	Solid drawn	Solid drawn
Internal Diar.	4 1/2"	4 1/2"
Thickness	6 SWG.	6 SWG.
How are Flanges secured?	Brazed.	Brazed.
Date of Hydraulic Test	13-12-20	17-12-20
Test Pressure	360 lbs.	360 lbs.

No. of Lengths	
Material	
Brazed, Welded or Seamless	
Internal Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	

No. of Lengths	
Material	
Brazed, Welded or Seamless	
Internal Diar.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	



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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.

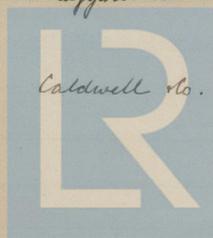
No. <i>one.</i>	Type <i>Direct contact Low pressure.</i>
Makers <i>Messrs G. J. Weir Ltd.</i>	
Working Pressure	Test Pressure
Date of Test <i>27-12-20.</i>	

FEED WATER FILTERS.

No. <i>1</i>	Type <i>Suction.</i>	Size <i>100 galls.</i>
Makers <i>Hawthornes & Co Ltd.</i>		
Working Pressure <i>Atmospheric</i>	Test Pressure	Date of Test <i>27-12-20.</i>

LIST OF DONKEY PUMPS.

<u>PUMPS</u>	<u>MAKERS.</u>	<u>N^o.</u>	<u>SIZE.</u>
<u>FEED INDEP. (2)</u>	<u>G & J. WEIR LTD.</u>	60435.	8" x 6" x 21"
Suctions :- Tank, Boiler, Sea, Heater, Condenser.			
Discharge :- Main feed & aux feed to boilers.			
<u>GENERAL SERVICE</u>	<u>DAWSON & DOWNIE LTD.</u>	3981.	7" x 4 1/2" x 8"
Suctions :- Main Bilge line, Filter, Condenser, Ballast, Boilers.			
Discharge :- Deck, Overboard, Sanitary, Boilers, Ash Ejector.			
<u>BALLAST.</u>	<u>DAWSON & DOWNIE LTD.</u>	3891.	7" x 8" x 8"
Suctions :- Engine Room Bilge, aft Ballast, Fore Ballast, Main Bilge line, Sea.			
Discharge :- Deck, aft Peak Tank, Fore Peak Tank, Condenser, Overboard.			
<u>CIRCULATING.</u>	<u>DRYSDALE & CO.</u>	12467.	
<u>DYNAMO.</u>	<u>W.H. ALLEN & CO LTD.</u>	40542/19.	8" x 7"
<u>FRESH WATER.</u>	<u>DAWSON & DOWSIE LTD.</u>	3205.	4" x 4" x 5"
Suctions :- Fresh Water Tanks.			
Discharge :- Filter & Deck.			
<u>Reversing Engine.</u>	<u>Mr. Taggart Scott Ltd.</u>	R1221	
<u>Steering Engine.</u>	<u>Caldwell & Co.</u>	2281.	



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LIST OF SPARE GEAR.

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

OTHER ARTICLES OF SPARE GEAR:-

- 2 Feed pump valve seats.
- 2 Valves & seats for Wier's Feed Pump.
- 2 Bilge pump valve seats.
- 24 Gauge glasses with washers.
- 1 Spring for ash ejector pump (General Service Pump)
- 1/2 set of firebars.

REFRIGERATORS



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ELECTRIC LIGHTING.

Installation Fitted by *Grindlay Ross & Co Ltd.*No. and Description of Dynamos *one.*Makers of Dynamos *W. H. Allen & Co Ltd. TW40541/19.*Capacity " *140.* Amperes, at *100.* Volts. *250* Revols. per Min. *14Kw.*Current Alternating or Continuous *Continuous.*Single or Double Wire System *Double Wire.*Position of Dynamos *Starting Platform Starboard side Engine Room*
" Main Switch Board " " *aft bulkhead.* " "No. of Circuits to which Switches are provided on Main Switch Board *Seven.*

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>Engine Room Stike^d</i>	<i>28.</i>	<i>16</i>	<i>17</i>	<i>7/16</i>	<i>750</i>	<i>100%</i>	<i>2000-2</i>
<i>Large Charters</i>	<i>2.</i>	<i>1000.</i>	<i>10</i>	<i>7/8</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Saloon & Accom.</i>	<i>30</i>	<i>16.</i>	<i>19</i>	<i>7/16</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Fore holds.</i>	<i>21</i>	<i>16</i>	<i>13</i>	<i>7/17</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Aft holds.</i>	<i>25</i>	<i>16</i>	<i>16</i>	<i>7/17</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Navigation</i>	<i>6</i> <i>4</i>	<i>32</i> <i>5</i>	<i>7</i>	<i>7/18</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Forecastle.</i>	<i>12.</i>	<i>16.</i>	<i>7</i>	<i>7/18.</i>	<i>"</i>	<i>"</i>	<i>"</i>

Total No. of Lights *128* No. of Motors driving Fans, &c. — No. of Heaters

Current required for Motors and Heaters —



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

Steering Engine House 1 Board with 4 switches
 Tween decks (forward) 1 " " 8 "
 " " (aft) 1 " " 8 "

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. 18. S.W.G., Largest, No. 15. S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

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

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) " " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

yes

by Armoured wires.

by lead sheathing

wires in galvanized pipes.

Armoured cables

Holes bushed.

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables

is unimpaired? Yes.

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

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? None

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? 4,000,000 Ohms.

Is the Installation supplied with a Voltmeter? Yes

" " " an Ampere Meter? Yes.

Date of Trial of complete Installation 30-12-20 Duration of Trial 6 hours

Robert A. Breig.
 Surveyor.



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GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans?

Yes.

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

Surveyor.

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen sound and

trustworthy?

Yes.

Is the Workmanship throughout thoroughly satisfactory?

Yes.

The above correctly describes the Machinery of the S.S.

"ARANMORE"

as ascertained by me from personal examination

Robert H. Craig

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

Fees—

MAIN BOILERS.

£ s. d.

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 for the Class of M.B.S.* on the

Fees advised

Fees paid



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Secretary.

In order JB



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