

No. 1054

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1038 No. in Register Book 1618.

"STRATTON CROFT"
"EX"
o.s.s. "Innisshannon"

Makers of Engines Tom Beardmore & Co

Works No. 120

Makers of Main Boilers ✓

Works No. ✓

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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Foundation

015020-015025-00772

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1038 No. in Register Book 1618.

Received at Head Office 9/11/13.

Surveyor's Report on the New Engines, ~~Boilers~~, and Auxiliary
Machinery of the Internal Combustion
motor Vessel

Port of Registry

Innisshannon
Glasgow

Registered Owners

Coasting Motor Shipping
Co Ltd

Surveyor's District

Clyde

Date of Completion of Engines

June 1913

" " " " Main Boilers ✓

" " " " Donkey " ✓

Trial Run at

Skelmorlie

Date 13.6.13

First Visit

26.6.12

Last Visit

20.6.13

Total Number of Visits

23

Speed 9 1/4 knots

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ENGINES.

Made by *Wm Beardmore & Co Ltd*.. at *Dalmuir*Description *Semi-Diesel, solid injection*No. of Cylinders, each Engine *4* Diars. *14*Cub. feet in each L.P. Cylr. *1.29* Revs. per Min. *310* I.H.P. *250 (estimated)*Pressure in I.P. Receiver at full Power 2nd I.P. L.P. Thickness of Metal in I.P. Cylr. I.P. " " " " " " " Liner " " " " " " " Valve Chest " " " Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *no*" " " " each Receiver? *no*Number of Bolts in H.P. Cylr. Cover *8* I.P. 2nd I.P. L.P.

Eff. Diar. " " " " " " " " " " " "

Pitch " " " *7 1/2* " " " " " "Type of H.P. Valves (Piston or Slide) " Valve Gear *Worked by eccentric from Crank shaft*Diameter of Piston Rods (plain part) At Bottom of Thread

Makers " " " " " " " " " " " "

Diameter of Connecting Rods (smallest part) *3* Material *Steel*

Makers " " " " " " " " " " " "

Diar. of Crosshead Gudgeons *5 1/2* Length of Bearing *7 1/2* Material *Steel*No. of Top End Bolts (each Rod) Effective Diar. Material " Bot. " " *2* " *.942* " *Steel*" Main Bearings *5* Lengths *10 1/2*" Bolts in each *4* Effective Diar. *.622* Material *Steel*No. of Holding Down Bolts, each Engine *18*No. of Metal Chocks *18*Eff. Diar. " " " *.87*Average Pitch *12 to 17*Are the Engines bolted directly to the Tank Top? *no tank*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.

SHAFTING.

Are Crank Shafts Built? *no* No. of Lengths in each *1* Angle of Cranks *90°*
 Diar. of Crank Shafts by Rule *5.728* Actual *6 1/4* Diar. in Way of Webs
 Makers of *W Beardmore & Co* Material *Steel*
 Diar. of Crank Pins *6 1/4* Diar. in Way of Web
 Makers of *W Beardmore & Co* Material *Steel*
 Width across Crank Webs at Centre of Shaft *8 1/2* Thickness *3 3/8*
 " " " Crank Pins *8 1/2* " *3 3/8*
 " " " Narrowest part *8 1/2* " *3 3/8*
 Makers of Crank Webs *W Beardmore & Co* Material *Steel*
 Diar. or Breadth of Keys in Crank Webs Length
 " of Dowel Pins in Crank Pins Length Screwed or Plain
 No. of Bolts in each Coupling *26* Diar. at Mid Length *1 1/2* Diar. of Pitch Circle *11"*
 Material of Coupling Bolts *Steel*
 Crank Shafts Finished by *W Beardmore & Co Ltd*
 Greatest Distance from edge of Main Bearing to Crank Web *8 2 1/4*
 Description of Thrust Blocks *Horse shoe type*
 Number " " Rings *8* *4*
 Diar. of Thrust Shafts by Rule *4.725* Actual (at bot. of Collars) *5 3/8* Over Collars *9 3/4*
 " " at Forward Coupling *5 3/8* After Coupling *5 3/8*
 No. of Thrust Collars *4* Thickness *1 1/2* Distance apart *2"*
 Thrust Shafts Forged by _____ Material _____
 " Finished by _____
 Diar. of Intermediate Shafting by Rule Actual
 No. of Lengths, each Engine No. of Tunnel Bearings
 Diar. of Bearings Length Distance apart



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No. of Bolts, each Coupling ✓ **Diar. at Mid Length** ✓ **Diar. of Pitch Circle** ✓

Intermediate Shafts Forged by 1 **Material** ✓

" " Finished by ✓

Diar. of Propeller Shafts by Rule **4.98** **Actual** **5** **At Couplings**

Are Propeller Shafts fitted with Continuous Brass Liners? **No**

Diar. over Liners **5 3/4** **Length of After Bearings** **1'-6"**

Of what Material are the After Bearings composed? **Legnum Vitae**

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing **7'-0"**

Are the After Bearings lubricated with Oil or Sea Water? **Sea water**

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

Propeller Shafts Forged by **W Beardmore & Co** **Material** **Steel**

" " Finished by **W Beardmore & Co**

No. of Propellers **1** **Diar.** **4'-6"** **Pitch** **3'-9"**

" Blades, each Propeller **3** **Fitted or Solid** **solid**

Material of Blades **Cast Iron** **Boss** **Cast Iron**

Surface, each Propeller **8.64** **Diar. of Propeller** **Rule Diar. of Crank Shaft =** **11.43**

Coefficient of Displacement of Vessel at 1/2 Moulded Depth **.8**



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The British Corporation for the Survey and Registry of Shipping.

Vessel's Name, Innisshannon

Built by Wm. Chalmero & Co. Rutherglen Ship No. 164

ENGINES, Single or Twin-Screw, Single Estimated B.H.P., 180

Built by Wm Beardmore & Co Ltd Works No., 120

Description, Semi-Diesel, 2 stroke cycle, reversible, solid injection

No. of Working Cylinders (each Engine), 4 Cub. Ft., one Cyl.,

Diar. of " " 14" Stroke, 14 1/2" Estimated Revs. per Min., 280

Diar. of Crank Shaft (made), 6 1/4" Thrust, 5 3/8" Intermed., Propeller, 5"

" " (by rule), " " " "

No. of Main Bearings, 5 Length, 10 1/2" Dist. between Edges, 18 1/4"

Thickness of Web (made), 3 1/8" Breadth of Web, 8 1/2"

" " (by rule), " " " "

Diar. of Propellers, 4'-6" Pitch, 3'-9" Surface (each), 8.6 f

Coeff. of Displacement at 4/5th Mld. Depth,

Max. Initial Working Pressure, 300 lbs Estimated Mean Pressure,

No. of Scavenging Pumps, Diar., Stroke,

Description, Air compressed in crank case for scavenging

Pressure of Scavenging Air, about 3 lbs per sq in

No. of Main Air Compressors, one No. of Stages (each), one

Stage 1:—Diar., 4" Stroke, 1 5/8" Pressure, 300 lbs

Stage 2:— " " " "

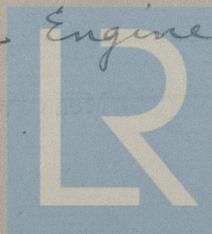
Description, Single acting, driven by eccentric on crank shaft

No. of Auxiliary Air Compressors, one No. of Stages (each), 2

Stage 1:—Diar., 5" Stroke, 4" Pressure,

Stage 2:— " 2 3/4" " 4" " 300 lbs

Description, Reavell patent 2 stage duplex, driven by an 8 B.H.P. Coates semi-diesel engine



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No. of Compressed Air Reservoirs, 2 Working Pressure, 300 lbs Test Pressure, 600 lbs
Dimensions, 2'-10³/₄" int. diam. 6'-9" int. lengths, shell ⁵/₈", ends ⁷/₁₆" thick
Description, Cylindrical with dished ends

No. and Diam. of Safety Valves (each), None on Reservoirs, one on each
compressor ¹/₂" diam.

Particulars of Fuel Pump, Single acting plunger pump ¹/₄" diam. ³/₁₆" stroke
(1 for each cylinder)

Particulars of Cooling Water Circulators, Single acting plunger pump 4¹/₂" diam.
¹/₈" stroke. Regulating valve to each jacket

System of Governing, Hit & miss governor

System of Lubrication, Main bearings syphon feed, other bearings
forced sight feed

Deck Winches and Capstans, how Driven? Ford, winch Coates Semi-Diesel Eng.
Aft winch, Skandia Engine.

Refrigerator, ✓

Electric Light, ✓

AUXILIARY BOILER—

Built by

Works No.,

Description.

Number.

Greatest Int. Diam.,

Height,
Length,

Pressure,

Heating Surface (each Blr.),

Grate Surface (each Blr.),

No. of Safety Valves (each Blr.),

Diam.,

Draught,

Fuel to be used, ✓

Further Particulars :—

Date of Harbour Trial, 6.6.13

Date of Trial Trip, 13.6.13 & 20.6.13

Trial Trip, where Run?

Skelmorlie

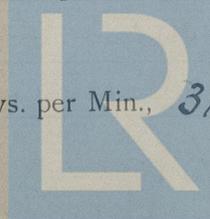
Speed, 9¹/₄ Knots.

Max. Press. in Cylrs., 300 lbs Mean Press.,

Revs. per Min., 310

I.H.P., 250

B.H.P., 200



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SKETCHES

Type
 No. of H.P. Turbines
 No. of A.S.P. Turbines
 How arranged
 How lower

Disc of H.P. Turbine Frame
 Material
 Thickness of Metal
 Material of H.P. Turbine Casings
 Lengths of Blades in H.P. Turbine
 No. of Rows of Blades of each length
 Pitch of

Disc of A.S.P. Turbine Frame
 Material
 Thickness of Metal
 Material of A.S.P. Turbine Casings
 Lengths of Blades in A.S.P. Turbine
 No. of Rows of Blades of each length
 Pitch of

Disc of A.S.P. Turbine Frame
 Material
 Thickness of Metal
 Material of A.S.P. Turbine Casings
 Lengths of Blades in A.S.P. Turbine
 No. of Rows of Blades of each length
 Pitch of

Disc of Turbine Spindle
 No. of Turbine Casings on each spindle
 Material of Spindle
 Length of Spindle
 Diameter of Spindle

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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	✓	Diar.	✓	Stroke	✓
Type of „			✓		
Diar. of Air Pump Rod	✓	Material		✓	
How are Air Pumps Worked?			✓		
No. of Centrifugal Circulating Pumps	✓	Maker		✓	
„ Reciprocating „ „	1	Diar.	4 1/4	Stroke	5 1/8
Diar. of Circulating Pump Rods	✓	Material		✓	
How are Circulating Pumps Worked?	<i>From valve gear eccentric of Main Engines</i>				
Diar. of Circulating Pump Suction from Sea			2		
Has each Circulating Pump a Bilge Suction with Non-return Valve?	✓		✓	Diar.	✓
No. of Feed Pumps on each Engine	✓	Diar.	✓	Stroke	✓
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	1	Diar.	4 1/4	Stroke	5 1/8
Where do they pump from?	<i>Bilges</i>				
„ „ discharge to?	<i>Overboard</i>				
Can one Pump be overhauled while the others are at work?			✓		
No. of Bilge Injections connected to Condensers	✓	Diar.		✓	
Are all Bilge Suctions fitted with Roses?			✓		
Are the Valves, Cocks, and Pipes so arranged as to prevent unintentional connection between Sea and Bilges?	<i>yes</i>				

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?

✓

Aux. pump for cooling circulation and bilges 4" diar. 6" stroke, driven by Aux Compressor Engine.



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BOILERS.

Boilers made by

at

Works No.

Date when Plan approved

Boiler Plates, Iron or Steel

Makers of Shell Plates

Internal Plates

Furnaces

Stay Bars

Rivets

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

No. of Boilers

Single or Double-ended

No. of Furnaces, each Boiler

Type of Furnaces

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

when Safety Valves set

Pressure on Valves

Date of Steam Accumulation Test

Max. Pressure under Accumulation Test

System of Draught

Can Boilers be worked separately?

Greatest inside Diam. of Boilers

Length

Square Feet of Heating Surface, each Boiler

Grate



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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

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

Are these Seams Hand or Machine Riveted ?

Diar. of Rivet Holes

Pitch "

Width of Overlap

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

Are these Seams Hand or Machine Riveted ?

Diar. of Rivet Holes

Pitch "

Width of Overlap

Size of Manholes in Shell

Dimensions of Compensating Ring

Thickness of End Plates in Steam Space by Rule

" " Approved

" " in Boilers

Width of Steam Space Straps

Material of " " "

Are they Approved

" " in Boilers

Material of " " "

Are they Approved

Size and Thickness of Loose Washers on End Plates

" " " "

Width of " " "



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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

Thickness of Doubling in 7/8" Space between Tubes
Eff. Diar. of stays by Rule
Approved
in Boilers
Material
Are stays fitted with X-rivets?
Thickness of front and plates at bottom by Rule
Approved
in Boilers
Thickness of Doubling in
Thickness of front and plates at bottom by Rule
Approved
in Boilers
No. of long stays in space between furnaces
Eff. Diar. of stays by Rule
Approved
in Boilers
Material of



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Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " "

Eff. Diar. of Stays by Rule

" " " Approved
" " " in Boilers

Material "

Are Stays fitted with Nuts outside ?

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 " " "

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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.U. Tops

Eff. Diar. " " " by Rule

" " " " Approved

" " " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule



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Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs by Rule

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Are all Screwed 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

No. of Stay Tubes, each Boiler

" " Plain " "

Size of Lower Manholes

VERTICAL DONKEY BOILERS

The Donkey Boilers are Vertical the following particulars should be stated in addition to those on

previous pages applicable to such Boilers--

Type of Boiler

Height of Boiler Crown above the Grate

Are Boiler Covers flat or Dished?

Internal Radius of Dished Ends

Description of seams in Boiler Crown

Plan of River Boiler

Height of Firebox Crown above the Grate

Are Firebox Covers flat or Dished?

Internal Radius of Dished Covers

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

No. of screwed Stays in Firebox Spine

Are they fitted with Nuts inside?

SUPERHEATERS

Description of Superheaters

Where situated

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MAIN STEAM PIPES.

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

REFRIGERATORS.

No. of Machines	Makers	Thickness of Plates
Description		
External Diar. of Shafts at Top		Thickness of Plates

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

SUPERHEATERS.

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?

Is the Machine Room properly Ventilated and Drained?

No. of Steam Cylinders, each Machine

Diars.

Compressors,

Diars.

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

Location of Dynamos	Capacity	Current Alternating or Continuous	Main Switch Board	No. of Circuits to which switches are provided on main switch board	Particulars of these Circuits—

No. of Circuits	Name of Circuit	Number of Lights	Number of Lamps	Current Rating of Apparatus	Size of Conductor	Material of Conductor	Conductivity of Conductor	Insulation

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 Bulkheads

Are all Joints in Cables properly soldered and thoroughly insulated so that the efficiency of the Cables is unimpaired?

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?

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

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation

Duration of Trial

DOCKERY



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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

DONKEY

No. of Donkeys
 Type
 Makers
 Single or Duplex
 Double-Acting
 Diar. of Steam Cylinders
 Pumps
 Stroke of
 Where do they pump from?
 Where do they discharge to?
 Capacity, Tons per Hour of Ballast Donkey Diar. of Pipe required by Rule for

FEED WATER FILTERS.

No. Type Size
 Makers
 Working Pressure Test Pressure Date of Test

FORCED DRAUGHT FANS.

No. of Fans Diar. Revols. per min.
 How are Fans driven?

PUMPS.

Diagrams

Handwritten notes:
 1 Train Heating tank
 2 Coal water tank
 1 hot water tank
 1 boiler tank
 1 hot water tank
 2 boiler tanks
 2 boiler tanks
 2 boiler tanks



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largest Ballast Tank Velocity of Water in Pipe

SPARE GEAR.

No. of Top End Bolts	✓	No. of Bot. End Bolts	2
" Main Bearing Bolts	2	" Coupling Bolts	8
" Cylr. Cover Bolts Studs	8	" Valve Chest Cover Bolts Studs	✓
" Feed Pump Valves	✓	" Bilge Pump Valves	✓
" Safety Valve Springs	✓	" Fire Bars	✓
" Piston Rings	6	" Junk Ring Bolts Studs	✓
" Piston Rods	✓	" Connecting Rods	✓
" Valve Spindles	✓	" Air Pump "	✓
" Air Pump Valves	✓	" " " Buckets	✓
" Crank Pin Bushes	1	" Crosshead Bushes	1
" Crank Shafts	✓	" Propeller Shafts	✓
" Propellers	✓	" " Blades	✓
" Boiler Tubes	✓	" Condenser Tubes	✓

OTHER ARTICLES OF SPARE GEAR:—

- 1 Main Bearing bush
- 2 Combustion Chambers
- 1 Set Crank case air valves
- 1 Eccentric strap
- 1 Thrust shoe
- 20 Springs (various)
- 2 Injector nozzles
- 2 Butners for blow lamps
- 2 Nipples " " "

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

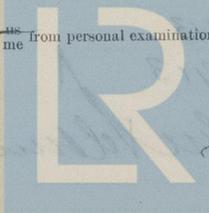
It is submitted that this report be approved.

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. *Anneshannon*

as ascertained by *me* from personal examination



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

RECEIPTS

PAID TO THE COMMITTEE FOR THE PURCHASE OF BOOKS

U.S. \$ 12.00

U.S. \$

DEPOSIT RECEIPT

U.S. \$

U.S. \$

EXPENSE

U.S. \$ 12.00

PAID TO THE COMMITTEE FOR THE PURCHASE OF BOOKS

U.S. \$

U.S. \$ 12.00

It is submitted that this Report be approved.

J. L. King
Chief Clerk

Approved by the Committee

*by the class of
the 1913 on the 12th Nov 1913*

Was repaid for

25th June 1913

Was paid

30th June 1913

Robert Adams



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