

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 Beadmore & Co

Works No. 120

Makers of Main Boilers ✓

Works No. ✓

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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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 7/11/13.

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*Works No. *120*Description *Semi-Diesel, solid injection*No. of Cylinders, each Engine *4* Diars. *14*Cub. feet in each L.P. Cylr. *1.29* Revols. per Min. *310* I.H.P. *250 (estimated)*

Pressure in I.P. Receiver at full Power

Thickness of Metal in I.P. Cylr.

" " " " Liner

" " " " Valve Chest

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.?

each Receiver?

Number of Bolts in I.P. Cylr. Cover

Eff. Diar.

Pitch

Type of I.P. Valves (Piston or Slide)

" Valve Gear

Diameter of Piston Rods (plain part)

Makers

Diameter of Connecting Rods (smallest part)

Makers

Diar. of Crosshead Gudgeons

Length of Bearing

No. of Top End Bolts (each Rod)

" Bot. " "

" Main Bearings

" Bolts in each

Effective Diar.

Lengths

Effective Diar.

Material

Material

Material

Material

Material

No. of Holding Down Bolts, each Engine

Eff. Diar. " " "

Are the Engines bolted directly to the Tank Top?

Are the Bolts tapped through the Tank Top and fitted with Nuts inside

Date of Test of Tank by Water Pressure with Holding Down Bolts in place

No. of Metal Chocks

Average Pitch

no tank

SKETCHES.



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SKETCHES.

SKETCHES.

SHAFTING.

Are Crank Shafts Built *no* No. of Lengths in each *1* Angle of Cranks *90°*
 Diam. of Crank Shafts by Rule *5.728* Actual *6 1/4* Diam. in Way of Webs *✓*
 Makers of *W Beardmore & Co* Material *Steel*
 Diam. of Crank Pins *6 1/4* Diam. in Way of Web *✓*
 Makers of *W Beardmore & Co* Material *Steel*
 Width across Crank Webs at Centre of Shaft *8 1/2* Thickness *3 1/8*
 " " " " Crank Pins *8 1/2* *3 1/8*
 " " " " Narrowest part *8 1/2* *3 1/8*
 Makers of Crank Webs *W Beardmore & Co* Material *Steel*
 Diam. 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* Diam. at Mid Length *1 1/2* Diam. 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*

Diam. 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 *✓*

Diam. of Intermediate Shafting by Rule *✓* Actual *✓*
 No. of Lengths, each Engine *✓* No. of Tunnel Bearings *✓*
 Diam. of Bearings *✓* Length *✓* Distance apart *✓*

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No. of Bolts, each Coupling ✓ Diam. at Mid Length ✓ Diam. of Pitch Circle ✓
 Intermediate Shafts Forged by Material ✓
 " " Finished by ✓
 Diam. of Propeller Shafts by Rule *4.98* Actual *5* At Couplings *no*
 Are Propeller Shafts fitted with Continuous Brass Liners? *no*
 Diam. 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* Diam. *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* Diam. of Propeller _____
 Rule Diam. of Crank Shaft = *11.43*
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ 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 sq ft*

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:— " " " "

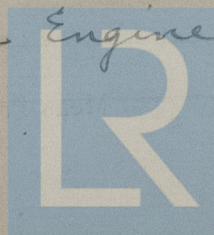
Description, *Single acting, driven by eccentric on crank shaft*

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 lb Test Pressure, 600 lb
Dimensions, 2'-10 $\frac{3}{4}$ " int. diar. 6'-9" int. lengths, shell $\frac{5}{8}$ ", ends $\frac{3}{4}$ " thick
Description, Cylindrical with dished ends

No. and Diar. of Safety Valves (each), None on Reservoirs, one on each
compressor $\frac{1}{2}$ " diar.

Particulars of Fuel Pump, Single acting plunger pump $1\frac{1}{4}$ " diar. $\frac{3}{16}$ " stroke
(1 for each cylinder)

Particulars of Cooling Water Circulators, Single acting plunger pump $4\frac{1}{2}$ " diar.
 $1\frac{5}{8}$ " 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. Diar.,

Height,
Length,

Pressure,

Heating Surface (each Blr.),

Grate Surface (each Blr.),

No. of Safety Valves (each Blr.),

Diar.,

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?

Skelmoorlie

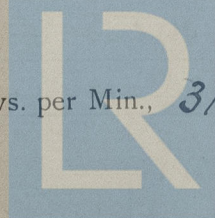
Speed, 9 $\frac{1}{4}$ Knots.

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

Revs. per Min., 310

I.H.P., 250

B.H.P., 200



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TUBES, SKETCHES.

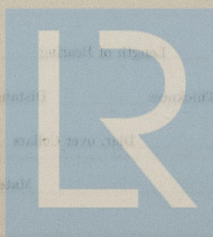
Type
No. of H.P. Turbines
No. of A.S.P. Turbines
How arranged
How lower

Part of H.P. Turbine Frame
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

Part of L.P. Turbine Frame
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

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

Part of Turbine Spindle
No. of Thrust Collars on each spindle
Pitch of Thrust Collars
Lengths of Spindles
Material
Length of Spindle
Pitch of Spindle
Material



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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. $4\frac{1}{4}$ Stroke $1\frac{5}{8}$

Diar. of Circulating Pump Rods ✓ Material ✓

How are Circulating Pumps Worked? *From valve gear eccentric of Main Engines*

Diar. of Circulating Pump Suction from Sea $2\frac{1}{2}$

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. $4\frac{1}{4}$ Stroke $1\frac{5}{8}$

Where do they pump from? *Bilges*

„ „ discharge to? *Overboard*

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? *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? ✓

Aux. pump for cooling circulation and bilges $4\frac{1}{4}$ 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 "

Are the Safety Valves each Boiler

" "

" "

Are the Valves fitted with Rising Stem

No. of Pressure Gauges each Boiler

" Water "

" Test Cores "

" Ballometer Cores "

Are Water Gauges fitted 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 Strains of Shell Plating in each Boiler

" Plates in each Strain

Thickness of Shell Plates by Rule

" Approved "

" in Boilers "

Are the Rivets fitted Flashed or Peened

Are Rivets Iron or Steel

Are the Longitudinal seams built up by Lap Joints

Are the Double Butt Straps of equal width

Thickness of outside Butt Straps

" Inside "

Are the Longitudinal seams built up by Lap Joints

Are they single Double or Triple Flashed

Diam. of Rivet Hole

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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



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No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch "

Width of Overlap

No. of Rows of Rivets in End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. 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. Diam. " " " by Rule

" " " " " Approved

" " " " " in Boilers

Material of " " "

How are Stays Secured?

Diam. 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 7/16" Space between Tubes

Thick. of stays at " " " "

Eff. Diam. of stays by Rule

Approved " " " "

in Boilers " " " "

Material

Are stays fitted with 3/16" outside?

Thickness of Thick End Plates at bottom by Rule

Approved " " " "

in Boilers " " " "

Thick. of stays at 7/16" Space between Tubes

Thickness of Doublings in " " " "

Thickness of Front End Plates at bottom by Rule

Approved " " " "

in Boilers " " " "

No. of Long stays in Space between Tubes

Eff. Diam. of stays by Rule

Approved " " " "

in Boilers " " " "

Material of

Thickness of Front End Plates at bottom by Rule

Approved " " " "

in Boilers " " " "

Thick. of stays at 7/16" Space between Tubes

Thickness of Doublings in " " " "



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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 " " "

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 Plate

" " "

Thickness of stay Tubes

" " "

Eff. Diar. of Tubes

" " "

Thickness of Furnace Plates by Rule

Approved " " "

" " " in Boilers

Are stay Tubes fitted with Nuts at Front End?

Length between Tube Plates

Width of Combustion Chambers (front to back)

Thickness of " " "

Approved " " "

" " " in Boilers

Pitch of stay Tubes in C.C. Tube

Eff. Diar. " " "

Approved " " "

" " " in Boilers

Thickness of Combustion Chambers (side to side)



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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 Diam. of Tubes

Material " "

Thickness of Furnace Plates by Rule

" " " Approved

" " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " " Tops, by Rule

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Eff. Diam. " " " 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

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 boiler

Height of Boiler Crown above the Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Heads

Description of seams in Boiler Crown

Plan of Boiler Sides

Height of Firebox Crown above the Grate

Are Firebox Crowns Flat or Dished?

Internal Radius of Dished Crowns

No. of Crown Stays

External Diam. of Firebox at Top

No. of Water Tubes

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Are they fitted with Nuts inside?

SUPERHEATERS

Description of superheaters

If none attached

If the boiler is connected to a superheater

Can superheaters be shut off while boiler is working?

No. of safety valves on superheaters

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VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on previous Pages applicable to such Boilers:—

Type of Boilers

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished ?

Internal Radius of Dished Ends.

Description of Seams in Boiler Crowns

Diar. of Rivet Holes

Pitch

Width of Overlap

Height of Firebox Crowns above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns

Thickness of Plates

No. of Crown Stays

Effective Diar.

Material

External Diar. of Firebox at Top

Bottom

Thickness of Plates

No. of Water Tubes

Int. Diar.

” ”

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Eff. Diar.

Material

Are they fitted with Nuts inside?

Outside ?

SUPERHEATERS.

Description of Superheaters

Where situated

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working ?

No. of Safety Valves on Superheaters.

Diar.

Area

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

SKETCHES.

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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				

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

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 ?

" " properly Ventilated and Drained ?

No. of Steam Cylinders, each Machine

Diams.

" 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

No. and Description of Dynamos

Makers of Dynamos

Capacity	"	Amperes, at	Volts.	Revolg. per Min.
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Current Alternating or Continuous

Position of Dynamos

Fig. 1. Main Switch Board

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

Particulars of these Circuits:—

Total No. of Lights

No. of Motors driving Fans, &c

No. of Heaters

Current required for Motors and Heaters

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

Date of Test of Safety Valves under Steam

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.



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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 Ripples " " "

GENERAL CONSTRUCTION.

Have all the Requirements under Sections 31 and 32 of the Rules been complied with? *yes*

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

Are the Steam Pumping Arrangements in accordance with the approved Plan? *yes*

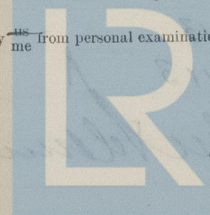
If not, state in what respects they differ and when such differences were sanctioned by the Chief Surveyor

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

Is the Workmanship throughout thoroughly satisfactory?

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

as ascertained by *me* from personal examination



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

GENERAL CONSTRUCTION.

MAIN BOTTLERS.

11.5.1. In general, the following conditions are satisfied:

DONKEY BOILERS.

U.S.	sq. ft.	:	:
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000

G.S. " : :

ENGINES.

L.P.C. Cub. ft. 12.00

POUNDS *** *** *** *** *** *** : :

Total ... £ 172 : 0 : 0

It is submitted that this Report be approved.

Wm. King
Chief Surveyor.

Approved by the Committee

Fees applied for

Fees paid

23rd June 1913
30th June 1913

Robert Selman Secretary

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FINANCIAL STATEMENT

WAIN BARRINGTON, INC. 1913

U.S.

DEBENTURE

U.S.

U.S.

Expenses

U.S.

U.S.

12 00

Expenses

Total

12 00

It is submitted that this Report be approved.

J. L. King
Chief Director

Approved by the Committee

by the class of
the 12th Nov 1913

For capital for

25th June 1913

For paid

30th June 1913

Robert Adams



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