

No. 2275

B. 6. 631.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

107246

Report No. 2256 No. in Register Book 3640

TROISDOE

S.S. "Algonquius"

Makers of Engines Barclay Curle

Works No. 631

Makers of Main Boilers do.

Works No. 631

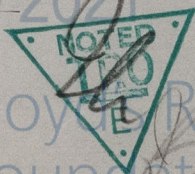
Makers of Donkey Boiler

Works No.

MACHINERY.



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No. 2275

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. .... No. in Register Book .....

S.S. .... "Algonquin" .....

Makers of Engines .... Barclay, Curle & Co., Ltd. ....

Works No. .... 631 .....

Makers of Main Boilers .... Same .....

Works No. .... 631 .....

Makers of Donkey Boiler .... — .....

Works No. .... — .....

MACHINERY.



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THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Received at Head Office *19<sup>th</sup> April 1924*

Official No. Port of Registry  
Registered Owners *Sr. Lawrence Steamships Limited*

Donkey " "

Date of Completion 15/4/29

First Visit 8/1/29 Last Visit 15/4/29 Total Visits 23

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## RECIPROCATING ENGINES.

Works No. **631** No. of Sets **One** Description **Triple expansion vertical surface - condensing steam**

No. of Cylinders each Engine **3** No. of Cranks **3**  
 Diars. of Cylinders **15", 25" and 40"** Stroke **33"**  
 Cubic feet in each L.P. Cylinder **24**

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

**Yes.**

" " each Receiver? **Yes, except H.P.**

Type of H.P. Valves,

**Piston**

**Slide**

**L.P. "**

**Valve Gear**

**Stevenson Link Motion**

**Condenser**

**Riveted Steel**

Cooling Surface **700** sq. ft.

Diameter of Piston Rods (plain part)

Screwed part (bottom of thread)

Material

Diar. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

**2**

Diar. over Thrd.

Threads per inch

Material

" Crank Pin

**2**

"

"

"

" Main Bearings

**6**

Lengths

" Bolts in each

**2**

Diar. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

**61**

Diar.

No. of Metal Chocks

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

**Rotherham Forge**

Piston

"

"

Crossheads,

**Barclay Curle & Co.**

Connecting Rods, Finished by

"

"

"

Piston

"

"

Crossheads,

"

"

"

Date of Harbour Trial

**12/4/29**

" Trial Trip

**15/4/29**

Trials run at

**Shelmorlie & "Birth of Clyde."**

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

**Yes, light ship.**

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

**968**

Revol. per min.

**105½**

Pressure in Receiver,

**173**

lbs., I.P.,

**77**

lbs., L.P.,

**16**

lbs., Vacuum,

**25** ins.

Speed on Trial

**9.61 Knots.**

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

data:—

Builders' estimated I.H.P.

Revol. per min.

Estimated Speed

**For detailed information,  
see Report on  
"Sarniadoc".**



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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

Diam. of 1st Reduction Pinion	}	Width	Pitch of Teeth
" 1st " Wheel			

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion	}	Width	Pitch of Teeth
" 2nd " Wheel			

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

"	"	Motors	"
"	"	1st Reduction Shaft	"
"	"	2nd "	"
"	"	Propellers at Full Power	"

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial	Knots.	Propeller Revs. per min.	S.H.P.
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Makers of Turbines

" Generators

" Motors

" Reduction Gear

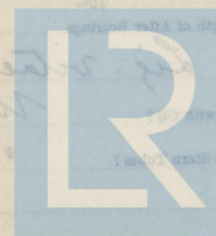
Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

## DESCRIPTION OF INSTALLATION.



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## SHAFTING.

Are the Crank Shafts Built or Solid?

*Built*

No. of Lengths in each

*One*

Angle of Cranks

*120°*

Diar. by Rule

Actual

*8 3/8"*

In Way of Webs

" of Crank Pins

*8 3/8"*

Length between Webs

Greatest Width of Crank Webs

Thickness

Least

Diar. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

*6*

Diar. at Mid Length

*2'*

Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

*3 1/6"*

Type of Thrust Blocks

*Horse Shoe*

No. " Rings

*4*

Diar. of Thrust Shafts at bottom of Collars

*8 3/8"*

No. of Collars

*4*

" " Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

*9"*

At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners?

*Yes.*

Diar. over Liners

*10 3/16"*

Length of After Bearings

*3'-0"*

Of what Material are the After Bearings composed?

*Lig. vitae strips.*

Are Means provided for lubricating the After Bearings with Oil?

*No*

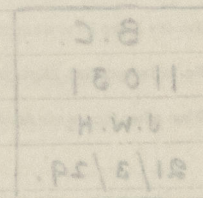
" " to prevent Sea Water entering the Stern Tubes?

*"*

If so, what Type is adopted?

## SKETCH OF CRANK SHAFT.

See Report on "Sarnador."



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No. of Blades each Propeller *4* Fitted or Solid? *Fitted.*  
 Material of Blades *C.I.* Boss *C.I.*  
 Diam. of Propellers *12-3"* Pitch *10-9"* Surface (each) *48* S. ft.)  
 Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth

Crank Shafts Forged by	<i>Dennystown Forge</i>	Material	<i>I. S.</i>
" Pins "	" "	"	"
" Webs "	<i>Beardmore &amp; Co.</i>	"	"
Thrust Shafts	<i>Dennystown Forge</i>	"	"
Intermed. "	"	"	"
Propeller "	"	"	"
Crank " Finished by	<i>Barclay Curle &amp; Co.</i>		
Thrust "	"		
Intermed. "	"		
Propeller "	"		

## STAMP MARKS ON SHAFTS.

B.C.
11031
J.W.H.
21/3/29.

## SKETCH OF PROPELLER SHAFT.

See Report on "Samua doc."



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## PUMPS, ETC.

No. of Air Pumps *One* Diar. *1'-2"* Stroke *1'-5"*

Worked by Main or Independent Engines? *Main*

No. of Circulating Pumps *One* Diar. *9½" x 12"* Stroke *1'-6"*

Type of *" Vert. Singler*

Diar. of *" Suction from Sea* *7"*

Has each Pump a Bilge Suction with Non-return Valve? *yes.* Diar. *4"*

What other Pumps can circulate through Condenser? *Ballast.*

No. of Feed Pumps on Main Engine *2* Diar. *2¼"* Stroke *1'-5"*

Are Spring-loaded Relief Valves fitted to each Pump? *yes*

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

No. of Independent Feed Pumps Diar. Stroke

What other Pumps can feed the Boilers? *Injector & G.S.*

No. of Bilge Pumps on Main Engine *2* Diar. *2½"* Stroke *1'-5"*

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

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges? *Ballast.*

Are all Bilge Suctions fitted with Roses? *Yes, except in rufcy spans, where mud boxes & straight tail pipes.*

Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges? *yes.*

Are all Sea Connections made with Valves or Cocks next the Ship's sides? *"*

Are they placed so as to be easily accessible? *"*

Are the Discharge Chests placed above or below the Deep Load Line? *Above.*

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.*

## BOILERS

Works No. *131*

No. of Boilers *2* Type *Cylindrical vertical*

Boilers or Double-ended *Single*

No. of Tubes in each *2*

Type of Tubes *Boiler*

Date when Plan approved *11/1/58*

Approved Working Pressure *180 lb/sq. in.*

Hydraulic Test Pressure *320 lb/sq. in.*

Date of Hydraulic Test *11/2/59*

" when Safety Valves set *10/4/59*

Pressure at which Valves were set *180 lb/sq. in.*

Date of Accumulation Test *10/4/59*

Maximum Pressure under Accumulation Test *187 lb/sq. in.*

System of Drafting *Hand-drawn*

Can Boilers be worked separately? *yes.*

Material of Plates *Steel*

Stay Bars *"*

Rivets *"*

Fireman *"*

Length *"*

Square Feet of Heating Surface *"*

" *"*

" *"*

" *"*

" *"*

" *"*

" *"*



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## BOILERS

Works No. **631**

No. of Boilers **2** Type **Cylindrical multitubular**

Single or Double-ended **Single**

No. of Furnaces in each **2**

Type of Furnaces **Deighton**

Date when Plan approved **26/11/28**

Approved Working Pressure **180 lb/□"**

Hydraulic Test Pressure **320 lb/□"**

Date of Hydraulic Test **11/3/29**

" when Safety Valves set **12/4/29**

Pressure at which Valves were set **186 lb/□"**

Date of Accumulation Test **12/4/29**

Maximum Pressure under Accumulation Test **187 lb/□"**

System of Draught **Forced, C.A. (Howden's)**

Can Boilers be worked separately? **Yes.**

Makers of Plates **Jas. Dunlop & Co. Ltd.**  
**D. Colville & Sons Ltd.**  
**Rivet, Bolt & Nut Co. Ltd.**  
**John Marshall & Co. Ltd.**

" Stay Bars **D. Colville & Sons Ltd.**

" Rivets **Rivet, Bolt & Nut Co. Ltd.**

" Furnaces **John Marshall & Co. Ltd.**

Greatest Internal Diam. of Boilers **10'-1 3/8"**

" " Length " **10'-9 5/16"**

Square Feet of Heating Surface each Boiler **1068**

" " Grate " " **32**

No. of Safety Valves each Boiler **2** Rule Diam. **1 3/4" H.L.**

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

No. of Pressure Gauges, each Boiler **1** No. of Water Gauges **1**

" Test Cocks " **3** " Salinometer Cocks **1**

B.C. TEST

5142

320 lb.

W.P. 180 lb.

J.W.H.

11/3/29



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

*Pillars.*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes?

*Pipes.*

Are these Pipes connected to Boilers by Cocks or Valves?

*Cocks.*

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

*Valves on ends.*

No. of Strakes of Shell Plating in each Boiler

*One*

Plates in each Strake

*13*  
*16*

Thickness of Shell Plates Approved

" " 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

*5/8"*

" inside "

*3/4"*

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 Pitch

*3/8"*

*6 1/8"*

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?

*Hand*

Diar. of Rivet Holes Pitch

*1"*

*3.49"*

No. of Rows of Rivets in Back End Circumferential Seams

*2*

Are these Seams Hand or Machine Riveted?

*Machine*

Diar. of Rivet Holes Pitch

*1"*

*3.49"*

Size of Manholes in Shell

*16" x 12"*

Dimensions of Compensating Rings

*For other particulars,  
See Report on  
"Sarniadoc"*



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " Approved Threads per Inch

" " " " " in Boilers

Material of " " "

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

Width " " Doubling Strips " "

Thickness of Middle Back End Plates Approved

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " "

Diar. of Stays Approved Threads per Inch

" " in Boilers " "

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Threads per Inch

Pitch of Stay Approved

" " " " " in Boilers

Material " "

Thickness of Front End Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " "

Stay Tubes at " "

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back End Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " " "

Thickness of Stay Tubes

" " " " "

Material of Tubes

Material " "

Thickness of Furnace Plates Approved

" " " " " in Boilers

Stays outside of Furnaces

Length between Tube Plates

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Diar. of Screwed Stays Approved

Threads per Inch

" " " In Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " In Boilers

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved

Threads per Inch

" " " In Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " In Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved

Threads per Inch

" " " In Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside C.O.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

## VERTICAL DONKEY BOILERS

No. of Boilers  
Type  
Greatest Int. Diar.  
Height  
Height of Boiler Crown above Fire Grate  
Are Boiler Crown Flat or Dished?  
Internal Radius of Dished Ends  
Description of Stays in Boiler Crown  
Diar. of River Joist  
Width of Overlap  
Height of River Crown above Fire Grate  
Are River Crown Flat or Dished?  
Internal Radius of Dished Crown  
No. of Crown Stays  
Diar.  
External Diar. of Ribbed at Top  
No. of Water Tubes  
Internal of Water Tubes  
Diar. of Manhole in Shell  
Thickness of Corporation Ring  
Heating surface each boiler  
(State Girders)

## SUPERHEATERS



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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			
Diarm. 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	Diarm.	Material	
External Diarm. of Firebox at Top	Bottom	Thickness of Plates	
No. of Water Tubes	Ext. Diarm.	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

Diarm.

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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## MAIN STEAM PIPES.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

2  
Steel  
Welded  
3 1/2"  
1/4"  
Sc'd exp'd.  
9/4/29  
540 lb/sq"

## LIST OF DOWNSIDE PUMPS

Ballast Dawson & Dawson vertical duplex  
9" and 11" x 10"

G.S. Same machine  
5" and 3 1/2" x 6"

Sanitary Same machine  
FEED WATER HEATERS  
2 1/2" x 10"  
Working pressure 22 M.P.  
Date of Test 2/2/29

FEED WATER FILTERS  
H.P.  
Working pressure 180 M.P.  
Date of Test 2/2/29



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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.	One	Type	Exhaust steam	
Makers	Hocking & Co. Ltd.			
Working Pressure	25 lb/sq	Test Pressure	coils 450 lb/sq	Date of Test
			shell 50 "	-/2/29

## FEED WATER FILTERS.

No.	One	Type	H. P.	Size
Makers	Henry Watson Ltd.			
Working Pressure	180 lb/sq	Test Pressure	450 lb/sq	Date of Test
				27/3/29

## LIST OF DONKEY PUMPS.

Ballast, Dawson & Downie vertical duplex  
9" and 11" x 10"

G. S., same makes " "  
5" and 3½" x 6"

Sanitary, same makes, horizontal "  
4½" and 2¾" x 4"

F. W., ditto.



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## SPARE GEARS

No. of Top End Bolts.	2	No. of Bot. End Bolts.	2	No. of Cylinder Cover Studs	6
„ Coupling Bolts	6	„ Main Bearing Bolts	2	„ Valve Chest „	6
„ Junk Ring Bolts	6	„ Feed Pump Valves	2	„ Bilge Pump Valves	1 set
„ H.P. Piston Rings		„ L.P. Piston Rings		„ L.P. Piston Rings	2
„ „ Springs		„ „ Springs		„ „ Springs	
„ Safety Valve „	One	„ Fire Bars	1/2 set	„ Feed Check Valves	One
„ Piston Rods		„ Connecting Rods		„ Valve Spindles	
„ Air Pump Rods		„ Air Pump Buckets		„ Air Pump Valves	3
„ Cir. „		„ Cir. „		„ Cir. „	1 set
„ Crank Shafts		„ Crank Pin Bushes		„ Crosshead Bushes	
„ Propeller Shafts		„ Propellers		„ Propeller Blades	2
„ Boiler Tubes	3	„ Condenser Tubes	3	„ Condenser Ferrules	20

## OTHER ARTICLES OF SPARE GEAR:—

see Report on "Saruni doc"

## REFRIGERATORS



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Are Out-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. *Stranded* S.W.G., Largest, No.

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 *L. C. & B. and Compounded o' all.*

(2) " passing through Bunkers or Cargo Spaces *Run in Telegraph casing.*

(3)	"	"	Deck Beams or Bulkheads	Fibre washen & W.T.
-----	---	---	-------------------------	---------------------

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? *Yes*

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 15/4/29 Duration of Trial 6 hours.

Have all the requirements of Section 42 been satisfactorily carried out?

Test of governor; - (Load 31 amps.)  
Main switch, out ---- 110-117-110 volts.  
" " in ---- 110-104-110 "  
(momentary.)

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skins clauds:



## 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.

*All main engine controls at top grating, with necessary gauges and telegraph, etc.*

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.

as ascertained by *me* from personal examination

*"Algonquins."*

*J. Wood Harrington.*  
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.O. Cub. ft.	:	:	
	£	:	:
Testing, &c. ...	:	:	
	£	:	:
Expenses ...	:	:	
Total ...	£	:	:

It is submitted that this Report be approved,

*J. Green King*  
Chief Surveyor.

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

*1<sup>st</sup> May 1929.*

Fees advised

Fees paid



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Secretary.



## GENERAL CONSTRUCTION

1000-

MAIN BOLLARD

H.A.

Sp. It.

G.A.

ROBERT BOLLARD

H.A.

Sp. It.

G.A.

L.P.C.

C.A.A.

It is submitted that this Report be approved.

Gild Property

Approved by the Committee for the Case of M.B.S. on the

"Atongquins"

1000 advised

1000 paid

Harrington



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