

No. 2264



THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 2262 No. in Register Book 3646

" GREY BEAVER "  
S.S. SOUTHON

Makers of Engines Smiths Dock Co Ltd.

Works No. 341

Makers of Main Boilers Blair Co (1926) Ltd.

Works No. C. 207.

Makers of Donkey Boiler

Works No.

MACHINERY.



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004962-004970-0002

No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

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

Received at Head Office. *8th November 1920*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the ~~Single Triple~~ <sup>Single Triple</sup> Screw Steamer "Southon"

Official No. *160722* Port of Registry *Middleburgh*

Registered Owners *Matthews Steamship Co. Ltd. Toronto*

Engines Built by *Synthe Dock Co. Ltd.*

at *South Bank-on-Sea.*

Main Boilers Built by *Blair & Co. (1926) Ltd.*

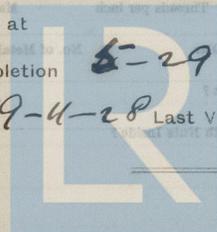
at *Stockton-on-Tees.*

Donkey " " ✓

at

Date of Completion *5-29*

First Visit *19-4-28* Last Visit *1-5-29* Total Visits *140*



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## RECIPROCATING ENGINES.

Works No. *341* No. of Sets *1* Description *Light Schousion. 3 Berks.*

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

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

" " each Receiver?

Type of H P. Valves,

1st I.P. "

2nd I.P.,

L.P. "

" Valve Gear

" Condenser

Cooling Surface 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) Diar. over Thrd. Thrds. per inch Material

" Crank Pin " " " "

" Main Bearings Lengths

" Bolts in each Diar. over Thread Threads per inch Material

" Holding Down Bolts, each Engine Diar. No. of Metal Chocks

Are the Engines bolted to the Tank Top or to a Built Seat?

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

*Value as made up Hall*

Connecting Rods, Forged by *Brown Bros.*

Piston " "

Crossheads, " "

Connecting Rods, Finished by *Smiths Oklo.*

Piston " "

Crossheads, " "

Date of Harbour Trial *26-4-29.*

" Trial Trip *1-5-29.*

Trials run at *In Lees Bay.*

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

If so, what was the I.H.P.? *830* Revols. per min. *120*

Pressure in 1st I.P. Receiver, *58* lbs., 2nd I.P., lbs., L.P., *11* lbs., Vacuum, *25* ins.

Speed on Trial *No speed taken.*

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

data:—

Builders' estimated I.H.P. Revols per min.

Estimated Speed



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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  |                  |                            |        |
| Diar. of 1st Reduction Pinion  | } Width          | Pitch of Teeth             |        |
| " 1st " Wheel  |                  |                            |        |
| Estimated Pressure per lineal inch                                       |                  |                            |        |
| Diar. 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 Revols. per min. | S.H.P. |

Makers of Turbines 3

|                                 |  |  |  |
|---------------------------------|--|--|--|
| " 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.

*W. J. Mahoney*

|   |  |  |  |
|---|--|--|--|
| No. of Turbine Shafts                         |  |  |  |
| Type of Turbine Shafts                        |  |  |  |
| No. of Turbine Shafts                         |  |  |  |
| Diam. of Turbine Shafts at bottom of Coupling |  |  |  |
| Forward Coupling                              |  |  |  |
| No. of Turbine Shafts at bottom of Coupling   |  |  |  |
| Forward Coupling                              |  |  |  |
| Diam. of Turbine Shafts at bottom of Coupling |  |  |  |
| Forward Coupling                              |  |  |  |
| No. of Turbine Shafts at bottom of Coupling   |  |  |  |
| Forward Coupling                              |  |  |  |
| Diam. of Turbine Shafts at bottom of Coupling |  |  |  |
| Forward Coupling                              |  |  |  |



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## SHAFTING.

Are the Crank Shafts Built or Solid ?

No. of Lengths in each Angle of Cranks

Diar. by Rule Actual In Way of Webs

" of Crank Pins 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 Diar. at Mid Length Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diar. of Thrust Shafts at bottom of Collars No. of Collars

" " 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 At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners ?

Diar. over Liners Length of After Bearings

Of what Material are the After Bearings composed ?

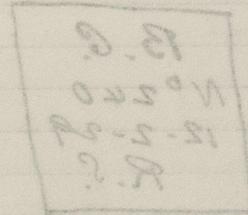
Are Means provided for lubricating the After Bearings with Oil ?

" " to prevent Sea Water entering the Stern Tubes ?

If so, what Type is adopted ?

## SKETCH OF CRANK SHAFT.

STAMP MARKS ON SHAFTS.



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No. of Blades each Propeller *11* Fitted or Solid? *11*  
 Material of Blades *As per as Ineadcliffe Hall* Boss  
 Diam. of Propellers *11* Pitch *11* Surface (each *11* S. ft.)  
 Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth

Crank Shafts Forged by *Life Forge Co.* Material *SP*  
 " Pins " " " " } @  
 " Webs " " " " " }  
 Thrust Shafts " " " " " }  
 Intermed. " " " " " }  
 Propeller " " " " " }  
 Crank " Finished by " " " " " }  
 Thrust " " " " " " " " " }  
 Intermed. " " " " " " " " " }  
 Propeller " " " " " " " " " }

## STAMP MARKS ON SHAFTS.

*Crank, Sprung &  
 Tail Shafts: -*

*B.C.  
 No 240  
 12-2-29  
 R.S.*

## SKETCH OF PROPELLER SHAFT.

No. of Air Turbine  
 Worked by Main or Independent Turbine?  
 No. of Connecting Pumps  
 Type of  
 Diam. of  
 Has each Pump a High Section with Non return Valve?  
 What other Pumps can circulate through Condenser?  
 No. of Teel Pumps on Main Engine  
 Are Spring loaded Relief Valves fitted to each Pump?  
 Can one Pump be overhauled while the others are at work?  
 No. of Independent Teel Pumps  
 What other Pumps can feed the Holders?  
 No. of High Pumps on Main Engine  
 Can one Pump be overhauled while the others are at work?  
 No. of Independent High Pumps  
 What other Pumps can draw from the Holders?  
 Are all High Sections fitted with Relief?  
 Are the Valves, etc. so arranged as to prevent unintentional connection between low and high?  
 Are all the Connections fitted with Relief?  
 Are they placed so as to be easily accessible?  
 Are the Distances great enough to allow the Teel Pumps to be worked?  
 Are they fitted with the Main Pumps and Governor Pumps or Pumps on the Condenser?

*Life Forge Co.*

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## BOILERS

Works No. *C. 204.*

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

Single or Double-ended *single.*

No. of Furnaces in each *2*

Type of Furnaces *Blighton.*

Date when Plan approved

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 "*

Date of Hydraulic Test *28-3-29.*

" when Safety Valves set *26-4-29.*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *26-4-29.*

Maximum Pressure under Accumulation Test *185 lbs.*

System of Draught *C.A.*

Can Boilers be worked separately? *Yls.*

Makers of Plates *James Dunlop & Co.*

" Stay Bars *The Steel Co of Scotland Ltd.*

" Rivets *Blair & Co. Ltd.*

" Furnaces *Brownies S. & Co. @*

Greatest Internal Diam. of Boilers *10'-4 3/8"*

" " Length " *10'-9 1/16"*

Square Feet of Heating Surface each Boiler *1128 sq ft*

" " Grate " " *33.8 sq ft*

No. of Safety Valves each Boiler *2* Rule Diam. Actual *2 1/2"*

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

No. of Pressure Gauges, each Boiler *2* No. of Water Gauges *1*

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

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

Are the Water Gauge Fitters fitted direct to the Boiler Shell or connected by Pipes?

Are there Pipes connected to Boilers by Cocks or Valves?

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

No. of Stations of Shell Lifting in each Boiler

" " " " " " " " " " " "

Thickness of Shell Plates Approved

" " " " " " " " " " " "

Are the Rivets iron or steel?

Are the longitudinal seams fitted or lap joints?

Are the Joint Stays Single or Double?

Are the Double Joint Stays of equal width?

Thickness of outside Joint Stays

" " " " " " " " " " " "

Are longitudinal seams Hand or Machine Riveted?

Are they Single Double or Triple Riveted?

No. of Rivets in a Line

Diam. of Rivet Heads

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Heads

No. of Rows of Rivets in Neck Ring Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Heads

No. of Rows of Rivets in Neck Ring Circumferential Seams

Are these Seams Hand or Machine Riveted?



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

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

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 Approved

„ „ in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Butt Straps Single or Double?

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?

No. of Rivets in a Pitch

Diar. of Rivet Holes Pitch

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

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

*Some of the shells*



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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

*Case as mentioned*

Dist. of Stays Approved

" " " " " in Boilers

Material

Thickness of Front Tube Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes in Spaces between Ends of Tubes

Thickness of Doublings in " "

Stay Tubes at " "

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back Tube Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

Stay Tubes

Thickness of Stay Tubes

" " " "

External Dist. of Tubes

Material

Thickness of Furnace Plates Approved

" " " " " in Boilers

Dist. of Stay Tubes

Length between Tube Plates

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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

Thickness of Front Tube 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 Tube Plates 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 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.O. Tops

*"I was made to do"*

Threads per Inch

Diar. of Screwed Stays Approved

" " " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " " in Boilers

Pitch of screw stays in C.O. Sides

Diar. " Approved " " "

" " " in Boilers

Material "

Thickness of Combustion Chamber Bands Approved

" " " in Boilers

Pitch of screw stays in C.O. Backs

Diar. " Approved " " "

" " " in Boilers

Material "

Are all screw stays fitted with Nuts inside C.O.?

Thickness of Combustion Chamber Heads

No. of Girders over each Wing Girder

" " " " "

Depth and Thickness of Girders

Material of Girders

No. of stays in each

No. of Tubes in each

State of lower flanges



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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

*4" I read as head of the wall*

VERTICAL DONKEY BOILERS

No. of Boilers  
Type  
Greatest Int. Diam.  
Height  
Height of Boiler Crown above Fire Grate  
Are Boiler Crowns Flat or Dished?  
Internal Radius of Dished Boilers  
Location of Beams in Boiler Crowns  
Diam. of Rivet Holes  
Pitch  
Height of Rivet Crown above Fire Grate  
Are Rivet Crowns Flat or Dished?  
External Radius of Dished Crowns  
No. of Crown Stays  
Diam.  
External Diam. of Rivet at Top  
Bottom  
Thickness of Plates  
No. of Water Tubes  
External of Water Tubes  
Size of Manhole in Shell  
Dimension of Corroding Ring  
Location Section, each Boiler  
Gross Surface

SUPERHEATERS

Description of Superheaters  
No. of Tubes  
Which Boilers are connected to superheaters?  
Can superheaters be fired off while boilers are working?  
No. of Stays in each  
Diam.  
Date of Installation  
Pressure on Tubes  
Data when Safety Valves set



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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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## 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

4  
Copper.  
S.P.  
3 1/2"  
W.P.  
brashed.  
24-4-29.  
400 lbs.

## LIST OF EVAPORATORS.

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

## FEED WATER HEATERS

1  
Water Heater  
400 lbs.  
400 lbs.

## FEED WATER FILTERS

1  
Water Filter  
400 lbs.  
400 lbs.



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

*Installation fitted by*  
*No. and Description of Dynamoes*  
*Makers of Dynamoes*  
*Capacity*  
*Current Allocation or Connections*  
*Single or Double Wire System*  
*Location of Dynamoes*  
*Main Switch Board*  
*No. of Circuits to which Switches are provided on Main Switch Board*  
*Locations of these Circuits*

| Insulation Resistance of Wires | Conductivity of Conductors | Location of Circuits | Size of Conductors | Material of Conductors | Number of Cables | Current |
|--------------------------------|----------------------------|----------------------|--------------------|------------------------|------------------|---------|
|--------------------------------|----------------------------|----------------------|--------------------|------------------------|------------------|---------|

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 Dynamoes, 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 1-5-09. Duration of Trial 6 hrs.

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

*Approved Plans*  
*It not give details of*  
*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?*  
*Is the Installation supplied with a Voltmeter?*  
*" " " an Ampere Meter*  
*Duration of Trial 6 hrs.*  
*Yes.*



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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.

*SOUTHON*

as ascertained by <sup>us</sup>/<sub>me</sub> from personal examination

*J. H. Stephenson*

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

Fees—

| MAIN BOILERS:    |                     | £ | s. | d. |
|------------------|---------------------|---|----|----|
| H.S.             | <i>2256</i> Sq. ft. | : | :  | :  |
| G.S.             | <i>64.6</i> "       | : | :  | :  |
| DONKEY BOILERS.  |                     |   |    |    |
| H.S.             | Sq. ft.             | : | :  | :  |
| G.S.             | "                   | : | :  | :  |
|                  |                     | £ | :  | :  |
| ENGINES.         |                     |   |    |    |
| L.P.C.           | <i>24</i> Cub. ft.  | : | :  | :  |
|                  |                     | £ | :  | :  |
| Testing, &c. ... |                     | : | :  | :  |
|                  |                     | £ | :  | :  |
| Expenses ...     |                     | : | :  | :  |
| Total ...        |                     | £ | :  | :  |

It is submitted that this Report be approved,

*Jack Barr for* Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the *13<sup>th</sup> November 1929.*



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Fees advised

Fees paid

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Foundation  
Secretary.





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