

No. 1540

TRANSFERRED TO:  
L R SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY

AND  
REGISTRY OF SHIPPING.

RETAIN

Report No. *1423* No. in Register Book *2556*.

TRANSFERRED TO:  
L R SYSTEM

S.S. "PARIS CITY"

Makers of Engines *Messrs Blair & Co.*

Works No. *1870*.

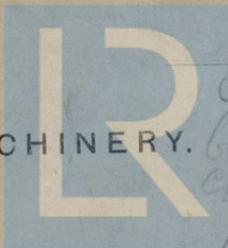
Makers of Main Boilers *Messrs Blair & Co.*

Works No. *1870*.

Makers of Donkey Boiler *Messrs Riley Bros.*

Works No. *5232*.

MACHINERY.



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Certificate for donkey  
boiler repaired to S.S. *Paris City*  
by *Chas. Riley & Co. Ltd.*  
15/8/11 *See file.*

Lloyd's Register  
Foundation

012553-012563-0132

No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. *1423* No. in Register Book *2556*

Received at Head Office *21<sup>st</sup> February 1922*

Surveyor's Report on the *Detu* Engines, Boilers, and Auxiliary  
Machinery of the *Single ~~Sample~~ <sup>Quadruple</sup> Screw Steamer*  
*"Paris City"*

Official No. Port of Registry *Bideford*

Registered Owners *W. R. Smith Sons*

Engines Built by *Messrs Blain & Co.*

at *Stockton-on-Tees*

Main Boilers Built by *Messrs Blain & Co.*

at *Stockton-on-Tees*

Donkey " " *Riley Bros.*

at *Stockton*

Date of Completion *13-8-20*

First Visit *27-5-19* Last Visit *13-8-20* Total Visits *80*

## RECIPROCATING ENGINES.

Works No. **1840** No. of Sets **1** Description **Installed Triple Expansion Marine.**

No. of Cylinders each Engine **Three** No. of Cranks **Three**  
 Diars. of Cylinders **28" x 46" x 75"** Stroke **51"**  
 Cubic feet in each L.P. Cylinder **131.**

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

" " " each Receiver? **Yes**

Type of H.P. Valves, **Piston.**

" 1st I.P. " **Slide**

" 2nd I.P. " **Slide**

" L.P. " **Slide**

" Valve Gear **Stephenson's**

" Condenser **Steel, circular** Cooling Surface **3600.** sq. ft.

Diameter of Piston Rods (plain part) **7½"**

Screwed part (bottom of thread) **5½"**

Material **Steel**

Diar. of Connecting Rods (smallest part) **7½"**

Material **Steel**

" Crosshead Gudgeons **8"**

Length of Bearing **1-4½"**

Material **Jan Metal.**

No. of Crosshead Bolts (each) **4**

Diar. over Thrd. **¾"**

Thrds. per inch **6**

Material **Steel.**

" Crank Pin " " **2**

" **4½"**

" **4**

" **Steel.**

" Main Bearings **6**

Lengths **1-1-4" & 5-1-4"**

" Bolts in each **2**

Diar. over Thread **4"**

Threads per inch **5**

Material **Steel.**

" Holding Down Bolts, each Engine **83**

Diar. **1¾"**

No. of Metal Chocks **58**

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 **Blair & Co. Stockton**

Piston " " **do.**

Crossheads, " " **do.**

Connecting Rods, Finished by **Blair & Co.**

Piston " " **do.**

Crossheads, " " **do.**

Date of Harbour Trial **August 6<sup>th</sup>/1920.**

" Trial Trip **August 13<sup>th</sup>/1920.**

Trials run **from Tees To Tyne.**

Were the Engines tested to full power under Sea-going conditions? **Poor Steam Pressure on Trial.**

If so, what was the I.H.P.? **2271.**

Revs. per min. **80.**

Pressure in 1st I.P. Receiver, **45** lbs., 2nd I.P.,

lbs., L.P., **9½** lbs., Vacuum, **28** ins.

Speed on Trial **No Speed Trial.**

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

data:—

Builders' estimated I.H.P. **2800**

Revs. per min. **69.**

Estimated Speed **11 knots.**



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Connecting Rods Forged by

Material

Quantity

Connecting Rods Finished by

Material

Quantity

Date of Harbour Trial

Time

Time for a full turn of the

When the engine turned to full power under the following conditions

It was found that the I.H.P.

was found to be I.H.P. 2871

Speed on Trial

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

data

Revolutions estimated I.H.P.

Estimated speed

## TURBINE ENGINES.

Works No.

Type of Turbines

No. of H.P. Turbines

No. of I.P.

No. of L.P.

No. of Stern

Are the Propeller Shafts driven direct by the Turbines or through Gearing?

Is Single or Double Reduction Gear employed?

Revol. per min. of H.P. Turbines at Full Power

" " I.P. " "

" " L.P. " "

" " 1st Reduction Shaft

" " 2nd " "

" " Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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## TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Revs. per min. of Generators at Full Power

" " Motors "

" " Propellers "

Total Shaft Horse Power "

Date of Harbour Trial

" Trial Trip

Trials run at

Makers of Turbines

" Generators

" Motors

" Reduction Gear

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by



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TANK SHAFTING

Are the Crank Shafts built or sold?

No. of Length in each

Date by this

No. of Crank Pins

Greatest Width of Crank Webs

Least

Date of Keys in Crank Webs

No. of Bolts each Coupling

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Torque Locks

No. of Pins

Date of Torque Locks at bottom of Collars

Forward Couplings

Date of Intermediate Bolting by this

No. of Bolts each Coupling

Date of Propeller Shafts by this

Are Propeller Shafts fitted with

Date new Lines

Of what material are the After Bearings composed?

Are the propeller shafts fitted with

to prevent the Water entering the steam

It will be noted

TANK SHAFTING

Are the Crank Shafts built or sold?

No. of Length in each

Date by this

No. of Crank Pins

Greatest Width of Crank Webs

Least

Date of Keys in Crank Webs

No. of Bolts each Coupling

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Torque Locks

No. of Pins

Date of Torque Locks at bottom of Collars

Forward Couplings

Date of Intermediate Bolting by this

No. of Bolts each Coupling

Date of Propeller Shafts by this

Are Propeller Shafts fitted with

Date new Lines

Of what material are the After Bearings composed?

Are the propeller shafts fitted with

to prevent the Water entering the steam

It will be noted



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No. of Blades each Propeller *Four* Fitted or Solid? *Solid*  
 Material of Blades *Bronze* Boss *Bronze*  
 Diam. of Propeller *19'-0"* Pitch *17'-6"* Surface *108* S. ft.  
 Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth *.75*

Crank Shafts Forged by *Messrs John Spencer & Sons* Material *Ingot. Steel*  
 " Pins " *do.* " *do* "  
 " Webs " *Messrs Blair & Co.* " *do.*  
 Thrust Shafts " *Messrs John Spencer & Sons* " *do.*  
 Intermed. " " *do* " *do.*  
 Propeller " " *do* " *do.*  
 Crank " Finished by *Messrs Blair & Co.*  
 Thrust " " *do*  
 Intermed. " " *do*  
 Propeller " " *do*

## STAMP MARKS ON SHAFTS

Crank Shaft

B.C.  
 N03445  
 25-6-20  
 J.D.S.

Thrust Shaft  
 No 2 Intermediate

15-2-20

21-5-20

14-5-20

19-5-20

3-6-20

19-5-20

26-5-20

2-7-20

" 3 "  
 " 4 "  
 " 5 "  
 " 6 "  
 " 7 "  
 Propeller "

B.C.  
 N03445  
 J.D.S.

## SKETCH OF PROPELLER SHAFT.

*[Faint, mostly illegible handwritten notes and sketches of propeller shaft components, including labels like 'No. of Blades', 'Diam.', 'Pitch', and 'Surface'. The sketches show various views of the shaft and its connection to the propeller.]*



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## PUMPS, ETC.

No. of Air Pumps *One* Diar. *24"* Stroke *36"*

Worked by Main or Independent Engines? *Main.*

No. of Circulating Pumps *One* Diar. Stroke

Type of " *Centrifugal*

Diar. of " Suction from Sea *12"*

Has each Pump a Bilge Suction with Non-return Valve? *Yes.* Diar. *9"*

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

No. of Feed Pumps on Main Engine *Two* Diar. *3 1/2"* Stroke *36"*

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

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

No. of Independent Feed Pumps *2* Cyl. *8"* Pump *10 1/2"* Stroke *21"*

What other Pumps can feed the Boilers? *General Service Feed Donkey.*

No. of Bilge Pumps on Main Engine *Two* Diar. *3 1/2"* Stroke *36"*

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 Donkey Pump.*

*& Main Engine Circulating Pump.*

Are all Bilge Suctions fitted with Roses? *Yes.*

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? *Yes.*

Are they placed so as to be easily accessible? *Yes.*

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

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.*

## DONKEY BOILER

BOILERS

*Ruby Bros No 5289*



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## BOILERS.

Works No. 1870.

No. of Boilers 3. Type Cylindrical Multitubular.

Single or Double ended ~~Single~~ Surge ended.

No. of Furnaces in each Three

Type of Furnaces Beighton.

Date when Plan approved 21-5-19

Approved Working Pressure 180 Lbs / sq"

Hydraulic Test Pressure 320 " "

Date of Hydraulic Test 11-6-20

" when Safety Valves set 6-8-20

Pressure at which Valves were set 185 Lbs / sq"

Date of Accumulation Test #10 6-8-20

Maximum Pressure under Accumulation Test 190 lbs.

System of Draught Howdens C.T.

Can Boilers be worked separately? Yes.

Makers of Plates John Spence & Sons.

" Stay Bars - do -

" Rivets Blair & Co. Ltd.

" Furnaces Leeds Forge Co. Ltd.

Greatest Internal Diam. of Boilers 16' - 0 <sup>3</sup>/<sub>8</sub>"

" " Length " 11' - 10 <sup>31</sup>/<sub>32</sub>"

Square Feet of Heating Surface each Boiler 3000 + 9000

" " Grate " " 64.3 + 3 192.9

No. of Safety Valves each Boiler 2. Diam. 4"

Are the Safety Valves fitted with Easing Gear? Yes.

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

" Test Cocks " 3. " Salinometer Cocks One.

## DONKEY BOILER.

Riley Bros no 5232

160 lbs.  
320 lbs.  
5-5-20  
10-8-20  
160 lbs.  
10-8-20  
163 lbs.

sp  
" Indian  
Riley

Same as



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

*On Pillars.*

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

*Direct.*

Are these Pipes connected to Boilers by Cocks or Valves?

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

*Valves.*

No. of Strakes of Shell Plating in each Boiler

*Two.*

Plates in each Strake

*One.*

Thickness of Shell Plates Approved

*1 5/16"*

in Boilers

*1 5/16"*

Are the Rivets Iron or Steel?

*Steel.*

Are the Longitudinal Seams Butt or Lap Joints?

*Butt joints.*

Are the Butt Straps Single or Double?

*Double.*

Are the Double Butt Straps of equal width?

*Yes.*

Thickness of outside Butt Straps

*1 3/16"*

inside

*1 3/16"*

Are Longitudinal Seams Hand or Machine Riveted?

*Machine*

Are they Single, Double, or Treble Riveted?

*Treble.*

No. of Rivets in a Pitch

*Five*

Diar. of Rivet Holes

*1 3/8"*

Pitch

*9 5/8"*

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

*Back machine, front-hand.*

Diar. of Rivet Holes

*1 7/16"*

Pitch

*4 1/4"*

No. of Rows of Rivets in Back End Circumferential Seams

*Two.*

Are these Seams Hand or Machine Riveted?

*Machine.*

Diar. of Rivet Holes

*1 7/16"*

Pitch

*4 1/4"*

Size of Manholes in Shell

*16" x 12"*

Dimensions of Compensating Rings

*2'-7 1/2" x 2'-3 1/4"*



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Diar. of Stays Approved  $3\frac{3}{8}$ " Threads per Inch 6 (Steam Space)  
 " " in Boilers  $3\frac{3}{8}$ " 6.  
 Material " Steel.

Thickness of Front Tube Plates Approved  $\frac{31}{32}$ "  
 " " " " in Boilers  $\frac{31}{32}$ "

Pitch of Stay Tubes at Spaces between Stacks of Tubes  $1' - 1\frac{1}{2}"$

Thickness of Doublings in " " "  
 " Stay Tubes at " " "  $\frac{5}{16}" + \frac{3}{8}"$

Are Stay Tubes fitted with Nuts at Front End? Corner stay tubes only.

Thickness of Back Tube Plates Approved  $\frac{13}{16}"$   
 " " " in Boilers  $\frac{13}{16}"$

Pitch of Stay Tubes in Back Tube Plates Max Pitch  $11\frac{1}{2}" \times 7\frac{1}{2}"$   
 " Plain "  $3\frac{1}{2}" \times 3\frac{1}{2}"$   
 $\frac{9}{16}"$

Thickness of Stay Tubes  
 " Plain " 8 W.G.

External Diar. of Tubes  $2\frac{1}{2}"$   
 Material " Iron.

Thickness of Furnace Plates Approved  $\frac{9}{16}" + \frac{3}{64}"$   
 " " " in Boilers  $\frac{9}{16}" + \frac{3}{64}"$

Smallest outside Diar. of Furnaces  $3' - 11\frac{1}{32}"$

Length between Tube Plates  $8' - 0"$

Width of Combustion Chambers (Front to Back)  $3' - 0\frac{1}{4}"$

Thickness of " " Tops Approved  $\frac{11}{16}"$   
 " " " " in Boilers  $\frac{11}{16}"$

Pitch of Screwed Stays in C.O. Tops  $8\frac{3}{4}" \times 9"$

Same as sp. Indiana City



Diam. of Screwed Stays Approved  $1\frac{3}{4}$ " Threads per Inch 8.  
 " " " in Boilers  $1\frac{3}{4}$ " 8.  
 Material " " Steel

Thickness of Combustion Chamber Sides Approved  $\frac{11}{16}$ "  
 " " " in Boilers  $\frac{11}{16}$ "  
 Pitch of Screwed Stays in C.O. Sides  $8\frac{3}{4}$ " x 9" +  $8\frac{3}{4}$ " x  $9\frac{1}{2}$ "  
 Diam. " " Approved  $1\frac{3}{4}$ " Threads per Inch 8.  
 " " " in Boilers  $1\frac{3}{4}$ " 8.  
 Material " " Steel

Thickness of Combustion Chamber Backs Approved  $\frac{11}{16}$ "  
 " " " in Boilers  $\frac{11}{16}$ "  
 Pitch of Screwed Stays in C.O. Backs  $9$ " x  $9\frac{1}{8}$ "  
 Diam. " " Approved  $1\frac{7}{8}$ " Threads per Inch 8.  
 " " " in Boilers  $1\frac{7}{8}$ " 8.  
 Material " " Steel

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

Thickness of Combustion Chamber Bottoms  $1$ "

No. of Girders over each Wing Chamber *Five.*

" " " Centre " *Four*

Depth and Thickness of Girders  $8\frac{1}{2}$ " x  $\frac{15}{16}$ " (each plate).

Material of Girders *Steel.*

No. of Stays in each *Three*

No. of Tubes, each Boiler *1470.*

Size of Lower Manholes *16" x 12"*

## VERTICAL DONKEY BOILERS

No. of Boilers  
 Type  
 Height  
 Greatest Int. Diam.  
 Height of Boiler Crown above Fire Grate  
 Rise Boiler Crown Flat or Dished?  
 Internal Radius of Dished Boilers  
 Description of Stays in Boiler Crown  
 Line of Water Tubes  
 Height of Firebox Crown above Fire Grate  
 Rise Firebox Crown Flat or Dished?  
 External Radius of Dished Crowns  
 No. of Crown Stays  
 Internal Diam. of Firebox at Top  
 Thickness of Plates  
 No. of Water Tubes  
 Rise Diam.  
 Material of Water Tubes  
 Size of Manhole in Shell  
 Direction of Compression Ring  
 Heating Surface each Boiler  
 Description of Superheaters  
 Where situated?  
 Which Boilers are connected to the engine?  
 Can Superheaters be shut off while Boilers are working?  
 No. of Boilers fitted on each engine?  
 Are they fitted with "Trailing Gear"?  
 This or that?  
 Late when Safety Valves set  
 Pressure on Valves  
 Test Pressure



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## MAIN STEAM PIPES.

No. of Lengths	5		
Material	Copper		
Brazed, Welded or Seamless	Seamless		
Internal Diar.	5"		
Thickness	5 WG.		
How are Flanges secured?	Brazed		
Date of Hydraulic Test	26-7-20		
Test Pressure	400 lbs.		
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			

## EVAPORATORS

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

## FEED WATER HEATERS

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

## FEED WATER FILTERS

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



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## EVAPORATORS.

No. *One* Type *6* Tons per Day *35*  
 Makers *Weirs - C. J.*  
 Working Pressure *15 lbs.* Test Pressure *30 lbs.* Date of Test *8-12-19.*  
 Date of Test of Safety Valves under Steam *6-8-20*

## FEED WATER HEATERS.

No. *One* Type *130 lbs.*  
 Makers *Weirs Direct Contact*  
 Working Pressure \_\_\_\_\_ Test Pressure \_\_\_\_\_ Date of Test \_\_\_\_\_

## FEED WATER FILTERS.

No. *One.* Type *Pressure.* Size *4" inlet.*  
 Makers *Kirkaldys.*  
 Working Pressure *180 lbs.* Test Pressure *432 lbs.* Date of Test \_\_\_\_\_

## LIST OF DONKEY PUMPS.

*Weirs Feed Donkey*  
*Ballast Pump 10" x 11" x 10"*  
*General Service " 8" x 9" x 10"*



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## SPARE GEAR.

No. of Top End Bolts.	2	No. of Bot. End Bolts.	2	No. of Cylinder Cover Studs	6
„ Coupling Bolts	1 set.	„ Main Bearing Bolts	2	„ Valve Chest „	6
„ Junk Ring Bolts	12	„ Feed Pump Valves	2	„ Bilge Pump Valves	2
„ H.P. Piston Rings		„ I.P. Piston Rings		„ I.P. Piston Rings	
„ „ Springs		„ „ Springs		„ „ Springs	
„ Safety Valve „	1	„ Fire Bars	75	„ Feed Check Valves	
„ Piston Rods		„ Connecting Rods		„ Valve Spindles	
„ Air Pump Rods		„ Air Pump Buckets		„ Air Pump Valves	6
„ Cir. „		„ Cir. „		„ Cir. „	
„ Crank Shafts		„ Crank Pin Bushes		„ Crosshead Bushes	
„ Propeller Shafts		„ Propellers	1	„ Propeller Blades	
„ Boiler Tubes	6	„ Condenser Tubes	6	„ Condenser Ferrules	100.

## OTHER ARTICLES OF SPARE GEAR:—

- 6- Gauge Glasses.
- 6 Bars Iron (assorted).
- 3- Plates Iron (assorted thickness).
- 6- Sheets Tin.
- 2- Sheets Copper each 12" square.
- 12- Spare Pricker Blades.
- 2- Main Feed Check valve lids.
- 2- Donkey " " " "
- 12- Assorted Studs for Glands & Covers.
- 1- Set Feed Donkey Pump valves
- 1- " Ballast " " " "
- 24- Taylor's Rings (assorted sizes).
- 2- Fire Bar Patterns.
- 1- Set Baffle Plate Patterns for Furness Fronts of Main Boilers.

Spare Gear (Continued)

- 1- Wood Side Bar Pattern. (Left Hand).
- 1- " " " (Right " )
- 1- Spare Set of Piston Rings for all Auxiliaries.

Centrifugal Pump.  
Main Feed Pump.  
Feed Donkey.  
Ballast " 10" x 11" x 10"  
" " 8" x 9" x 10"

Winch Cond. Pump.  
Forced Draught Fan Engine.  
Oil Transfer Pump.  
Oil Pumps.

- 1- Pair Spare Bottom End Bearings complete.
- 1- Spare impeller & shaft for Cent. Pump.



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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. *"Paris City."*

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

*J. D. Stephenson*  
 Engineer Surveyor to the British Corporation for the  
 Survey and Registry of Shipping.

## Fees—

## MAIN BOILERS.

H.S. *9000* Sq. ft. : :

G.S. *192.9* " : :

## DONKEY BOILERS.

H.S. *1196* Sq. ft. : :

G.S. *35* " : :

£ : :

## ENGINES.

L.P.C. *131* Cub. ft. : :

£ : :

Testing, &c. ... .. : :

£ : :

Expenses ... .. : :

Total ... £ : :

It is submitted that this Report be approved,

*John King*  
 Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the *1<sup>st</sup> March 1922*

Fees advised

Fees paid



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 Foundation Secretary.





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