

No. 1814

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2126 No. in Register Book 3481

S.S. "CARTIER DOC."

Makers of Engines Swan Hunter & W. R. Ltd.

Works No. 1258.

Makers of Main Boilers Swan Hunter & W. R. Ltd.

Works No. 1258.

Makers of Donkey Boiler None fitted.

Works No. ✓

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

22nd August 1928

Surbeyor's Report on the **Peto Engines, Boilers, and Auxiliary Machinery of the** *Single Triple* **Secretu**

Official No. *149455* Port of Registry *Newcastle-on-Tyne*

Registered Owners *Peterson's Steamships Ltd*

Engines Built by *Swan Hunter & W.R. Ltd.*

at *Neptune Works, Walker, R. Tyne.*

Main Boilers Built by *Swan Hunter & W.R. Ltd.*

at *Neptune Works, Walker, R. Tyne*

Donkey " " *None fitted*

at

Date of Completion *22-3-18.*

First Visit *24/9/24*

Last Visit *23-3-28*

Total Visits *50*

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RECIPROCATING ENGINES

Works No. **1258.** No. of Sets **One** Description **Inverted.**

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. **yes**
 " " " each Receiver? **yes**
 Type of H.P. Valves, **Piston Valve**
 " 1st L.P. " **Slide valve**
 " 2nd L.P. " **"**
 " L.P. " **Double ported Slide valve.**
 " Valve Gear **Stephenson Link.**
 " Condenser **Circular Two flow.** Cooling Surface **400** sq. ft.
 Diameter of Piston Rods (plain part) **3 3/8"** Screwed part (bottom of thread) **2.66"**
 Material " **Forged steel.**
 Diar. of Connecting Rods (smallest part) **4 1/4"** Material **Forged steel**
 " Crosshead Gudgeons **4 1/2"** Length of Bearing **6 1/2"** Material " "
 No. of Crosshead Bolts (each) **2** Diar. over Thrd. **2 1/4"** Thrds. per inch **6** Material **Steel**
 " Crank Pin " **2** " **2 1/4"** " **6** " "
 " Main Bearings **6** Lengths **8**
 " Bolts in each **2** Diar. over Thread **2"** Threads per inch **6** Material **Steel**
 " Holding Down Bolts, each Engine **65** Diar. **1 1/4"** No. of Metal Chocks **61**
 " " " **thrust 10**
 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 **Life Forge Co.**
 Piston " " **do**
 Crossheads, " **do**
 Connecting Rods, Finished by **Swan Hunter & W.R.**
 Piston " " **do**
 Crossheads, " **do**
 Date of Harbour Trial **4th March 1928.**
 " Trial Trip **22nd March 1928. (Vessel sailed 23/3/28.)**
 Trials run at **Off Rivington in North Sea.**
 Were the Engines tested to full power under Sea-going conditions? **yes**
 If so, what was the I.H.P.? **✓** Revols. per min. **104**
 Pressure in 1st L.P. Receiver, **55** lbs., 2nd L.P., **5 1/2** lbs., Vacuum, **26 1/2** ins.
 Speed on Trial **none 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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TURBINE ENGINES.

Works No. Type of Turbines

No. of H.P. Turbines No. of L.P. No. of L.P. No. of Astern

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

Is Single or Double Reduction Gear employed?

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 H.P. Turbines at Full Power S.H.P.

" " 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 Knots. Propeller Revs. per min. S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

Main Boiler aux. 9 stop valves tested 360 lbs. 19.10.27. 11.
 Two main stop valves. test 21.11.27. 5.4.28.
 HP Cylinder tested 240 lbs. 7.11.27
 Condenser tested 15 lbs. 7.11.27.



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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.

Makers of Turbines

Generators

Motors

Reduction Gear

Turbine Spindles forged by

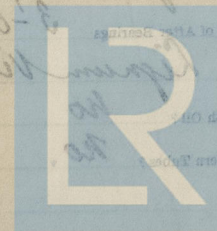
" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

Type of Thrust Blocks
 No. of Hinges
 Diam. of Thrust Shafts at bottom of Collars
 Port and Coupling
 Diam. of Intermediate Shafts by Hole
 No. of Bolts each Coupling
 Diam. at Mid Length
 Diam. of Pitch Circle
 No. of Lengths
 Diam. of Propeller Shafts by Hole
 Actual 8-878
 At Couplings 8-878
 Propeller Shafts fitted with Continuous Brass Liners?
 Diam. over Liners
 Of what Material are the Aft Bearings composed?
 Are liners provided for indicating the Aft Bearings with Oil?
 Do the bearings wear against the Starboard?



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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

8.26"

Actual

8 $\frac{3}{8}$ "

In Way of Webs

8 $\frac{7}{8}$ "

" of Crank Pins

8 $\frac{3}{8}$ "

Length between Webs

8 $\frac{1}{4}$ "

Greatest Width of Crank Webs

16 $\frac{1}{4}$ "

Thickness

5 $\frac{1}{4}$ "

Least

11 $\frac{3}{4}$ "

"

5 $\frac{1}{4}$ "

Diar. of Keys in Crank Webs

1 $\frac{3}{4}$ "

Length

3 $\frac{3}{4}$ "

" Dowels in Crank Pins

—

Length

Screwed or Plain

plain

No. of Bolts each Coupling

6

Diar. at Mid Length

2"

Diar. of Pitch Circle

12 $\frac{7}{8}$ "

Greatest Distance from Edge of Main Bearing to Crank Web

3 $\frac{3}{16}$ "

Type of Thrust Blocks

Multi. Collar loose choc.

No. " Rings

4

Diar. of Thrust Shafts at bottom of Collars

8 $\frac{3}{8}$ "

No. of Collars

4

" " Forward Coupling

8 $\frac{3}{8}$ "

At Aft Coupling

8 $\frac{3}{8}$ "

Diar. of Intermediate Shafting by Rule

7.858

Actual

No. of Lengths

No. of Bolts, each Coupling

—

Diar. at Mid Length

—

Diar. of Pitch Circle

—

Diar. of Propeller Shafts by Rule

8.878

Actual

9 $\frac{1}{16}$ "

At Couplings

9 $\frac{1}{8}$ "

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes

Diar. over Liners

10 $\frac{7}{16}$ " — 10 $\frac{7}{16}$ "

Length of After Bearings

3'-0"

Of what Material are the After Bearings composed?

Lignum Vitae.

Are Means provided for lubricating the After Bearings with Oil?

no

" " to prevent Sea Water entering the Stern Tubes?

no.

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.

*Final mark crank shaft.**propeller**thrust**BL 10454**J.L.**5.1.28.**3 con. rods**6 ecc rods**3 Valve spindles**3 piston rods*

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PUMPS, ETC.

No. of Air Pumps *One* Diar. *14"* Stroke *14"*
 Worked by Main or Independent Engines? *Main*

No. of Circulating Pumps *One* Diar. *12"* Stroke *18"*
 Type of " *Simplex Vertical 9½" cylinder*
 Diar. of " *Suction from Sea*

Has each Pump a Bilge Suction with Non-return Valve? *Yes* Diar.
 What other Pumps can circulate through Condenser? *Ballast pump.*

No. of Feed Pumps on Main Engine *2* Diar. *2½"* Stroke *17"*
 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 Diar. Stroke
 What other Pumps can feed the Boilers? *General Service pump & The injector.*

No. of Bilge Pumps on Main Engine *2* Diar. *2½"* Stroke *14"*
 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? *Circ pump, Ballast pump*

Are all Bilge Suctions fitted with Roses? *Yes & mud boxes.*

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? *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

No. of Boilers *2*
 Type *Cylindrical Multitubular*
 Single or Double ended *Single*
 No. of Furnaces in each *2*
 Type of Furnaces *Refrigerator*
 Date when first approved *1880*
 Approved Working Pressure *180 lbs.*
 Hydraulic Test Pressure *320 lbs.*
 Date of Hydraulic Test *15.12.27*
 " when Safety Valves set *182 lbs.*
 Pressure at which Valves were set *182 lbs.*
 Date of Accumulation Test *not taken*
 Maximum Pressure under Accumulation Test *not taken*
 System of Drafting *Horizontal forced draught*
 Can Boilers be worked separately? *Yes*
 Nature of Plates *Hot rolled steel*
 Stay Bars *not taken*
 Rivets *not taken*
 Furnaces *not taken*
 Greatest Internal Diam. of Boilers *not taken*
 Length *not taken*
 Square Feet of Heating Surface *not taken*
 Are the Valves fitted with Hand Gears? *Yes*
 No. of Expansion Joints *not taken*
 Test Cocks *not taken*



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BOILERS.

Works No.

1258.

No. of Boilers

2.

Type

Cylindrical Multitubular.

Single or Double-ended

Single.

No. of Furnaces in each

2.

Type of Furnaces

Brighton

Date when Plan approved

Approved Working Pressure

180 lbs.

Hydraulic Test Pressure

320 lbs.

(BC 3114 J.L. 15.12.27)

Date of Hydraulic Test

15.12.27.

" when Safety Valves set

4.3.28.

Pressure at which Valves were set

185 lbs.

Date of Accumulation Test

No test taken.

Maximum Pressure under Accumulation Test

System of Draught

Howdens Forced P.A. pump.

Can Boilers be worked separately?

Yes.

Makers of Plates

Steel Coy of Scotland.

" Stay Bars

do
R. Bolt & Nut Coy.

" Rivets

Brighton

" Furnaces

Greatest Internal Diam. of Boilers

10'-1 3/8"

" " Length "

10'-9 15/16"

" Square Feet of Heating Surface each Boiler

1068 sq ft

1068 sq ft

" " Grate "

32 sq ft

No. of Safety Valves each Boiler

2

Rule Diam.

Actual

2" High Lift

Are the Safety Valves fitted with Easing Gear?

Yes

No. of Pressure Gauges, each Boiler

One

No. of Water Gauges

One

" Test Cocks

3

" Salinometer Cocks

One

Thickness of End Plates in Steam Space Approved

 $1\frac{1}{32}$

" " " " " in Boilers

 $1\frac{1}{32}$ full

Pitch of Steam Space Stays

 18×14

Diar. " " " " Approved

 $2\frac{3}{4}$

Threads per Inch

6

" " " " " in Boilers

 $2\frac{3}{4}$

6

Material of " " "

Steel

How are Stays Secured? Nuts inside & outside & washers.

Diar. and Thickness of Loose Washers on End Plates

 $6 \times \frac{1}{4}$

" " " " Riveted " " "

✓

Width " " Doubling Strips "

✓

Thickness of Middle Back End Plates Approved

 $1\frac{1}{32}$

" " " " " in Boilers

 $1\frac{1}{32}$

Thickness of Doublings in Wide Spaces between Fireboxes

None

Pitch of Stays at

 $13\frac{1}{4} \times 9$

Diar. of Stays Approved

 $1\frac{7}{8} \times 1\frac{3}{4}$

Threads per Inch

9

" " " " " in Boilers

- do -

- do -

Material "

Steel

Are Stays fitted with Nuts outside?

Yes.

Thickness of Back End Plates at Bottom Approved

 $1\frac{1}{32}$

" " " " " in Boilers

 $1\frac{1}{32}$ full

Pitch of Stays at Wide Spaces between Fireboxes

 $13\frac{1}{4} \times 9$

Thickness of Doublings in " "

None

Thickness of Front End Plates at Bottom Approved

 $1\frac{1}{32}$


" " " " " in Boilers

 $1\frac{1}{32}$

No. of Longitudinal Stays in Spaces between Furnaces

One.



$$9\frac{3}{4} \times 9\frac{1}{8}$$


Diar. of Screwed Stays Approved $1\frac{3}{4}$ Threads per Inch 9

" " " in Boilers $1\frac{3}{4}$

Material " " Steel

Thickness of Combustion Chamber Sides Approved $\frac{4}{16}$

" " " in Boilers $\frac{4}{16}$

Pitch of Screwed Stays in C.O. Sides 10×9

Diar. " " Approved $1\frac{3}{4}$ Threads per Inch 9

" " " in Boilers $1\frac{3}{4}$

Material " " Steel

Thickness of Combustion Chamber Backs Approved $\frac{4}{16}$

" " " in Boilers $\frac{4}{16}$ full

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

Diar. " " Approved $1\frac{3}{8} \times 1\frac{3}{4}$ Threads per Inch 9

" " " in Boilers ~ do -

Material " " Steel

Are all Screwed Stays fitted with Nuts inside C.O.? $\frac{7}{16}$

Thickness of Combustion Chamber Bottoms $\frac{4}{16}$

No. of Girders over each Wing Chamber Four

" " " Centre " No centre

Depth and Thickness of Girders $8\frac{3}{8} \times \frac{7}{8}$ (2 Chambers)
(2 plates)

Material of Girders Steel

No. of Stays in each Two. $2'-8" \text{ top } 2'-10" \text{ at bottom}$

No. of Tubes, each Boiler 17

Size of Lower Manholes 15×11

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Greatest Int. Diam.
Height
Height of Boiler Crown above the Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Ends
Description of Seams in Boiler Crowns
Pitch of Rivet Holes
Height of Ribbed Crowns above the Grate
Are Ribbed Crowns Flat or Dished?
External Radius of Dished Crowns
No. of Crown Stays
Material
External Diam. of Ribbed at Top
Thickness of Plates
No. of Water Tubes
Material of Water Tubes
Size of Manhole to 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

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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.

No. of Pipes
 Material
 Internal Dia.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure
 No. of Pipes
 Material
 Internal Dia.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure
 No. of Pipes
 Material
 Internal Dia.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure

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MAIN STEAM PIPES.

No. of Lengths	3.
Material	Steel
Brazed, Welded or Seamless	S.D.
Internal Diam.	3½"
Thickness	¼"
How are Flanges secured?	Screwed
Date of Hydraulic Test	3.2.28.
Test Pressure	540 lbs

Plan Nos. 120-121.122

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

Auxiliary Steam & Feed pipes

No. of Lengths	Plan Nos 80, 1. 3. 4. 6. 8	540 lbs
Material	" " 72. 71. 68. 9. 64. 60	
Brazed, Welded or Seamless	60 A. 64 A. 65. 66. 7	} 420 lbs.
Internal Diam.	64 & 64 A.	
Thickness		
How are Flanges secured?	all steel pipes	
Date of Hydraulic Test		
Test Pressure		

STEAM EVAPORATORS TEST

No.	1.
Description	Supra Ballast pump
Material	Steel
Working Pressure	120 lbs
Test Pressure	120 lbs
Date of Test	12.1.28
Thickness	9" x 4" x 10" thick

No.	2.
Description	Supra Ballast pump
Material	Steel
Working Pressure	120 lbs
Test Pressure	120 lbs
Date of Test	12.1.28
Thickness	9" x 4" x 10" thick

No.	3.
Description	Supra Ballast pump
Material	Steel
Working Pressure	120 lbs
Test Pressure	120 lbs
Date of Test	12.1.28
Thickness	9" x 4" x 10" thick



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EVAPORATORS.

No. *3* Type *3* Tons per Day
 Makers *3*
 Working Pressure Test Pressure Date of Test
 Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No. *one* Type *High pressure feed heater*
 Makers *Holden & Brooke*
 Working Pressure *180 lbs* Test Pressure *450 lbs* Date of Test *12.1.28*
50 body.

FEED WATER FILTERS.

No. *one* Type *High pressure* Dia *8"*
 Makers *Hy Watson & Sons* Size *2' 10 5/8"*
 Working Pressure *180* Test Pressure *432* Date of Test *29.11.24*
TAK. 4 1/2"

LIST OF DONKEY PUMPS.

1. Simplex circulating pump. 12" x 18" stroke. Cylinder 9 1/2" dia.
1. Duplex Ballast pump. 9" x 11" x 10" stroke.
1. Duplex General Service pump. 5 x 3 1/2 x 6" stroke.
1. Sanitary 4 1/2 x 2 3/4 x 4" stroke.
1. Fresh water 4 1/2 x 2 3/4 x 4" stroke.
1. Greshams No 9 injector.



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OTHER ARTICLES OF SPARE GEAR:—

1. Set of 8 fly pump valves.
- $\frac{1}{2}$. set of pin bars.
6. lubricator glasses & washers.
1. dog pump glasses & washers.
12. assorted iron studs & nuts for engines
6. assorted brass studs & nuts for engines
36. assorted common bolts & nuts
1. Escape valve spring of each size (4 off)

REFRIGERATORS.

No. of Machines

Capacity of each

Makers

Description

No. of Steam Cylinders, each Machine

No. of Compressors

No. of Cranks

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently

System of Refrigeration

Insulation

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

Are all Bilge, Sounding, and Air Pipes in Insulated Spaces properly insulated?

Are Thermometer Tubes so arranged that Water cannot enter and freeze in them?

Date of Test under Working Conditions

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
Navigation	41	50	330	
Food Acc.	11	30	1200	
Off Acc.	16	30	1800	
Eng. & All rooms	13	30		

Articles of Spare Gear for Refrigerating Plant carried on board:—



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REMARKS TO SHIP

TEMP. at beginning of Trial. TEMP. at end of Trial. TEMP. at middle of Trial. TEMP. at end of Trial. TEMP. at middle of Trial. TEMP. at end of Trial.

ELECTRIC LIGHTING.

Installation Fitted by *Swan Hunter & W. Ltd. Wallsend.*
 No. and Description of Dynamos *1-10-KW Comp. wound dynamo*
 Makers of Dynamos *Sunderland Forge & Eng. Co.*
 Capacity *91* Amperes, at *110* Volts, *380* Revs. per Min.
 Current Alternating or Continuous *Continuous.*
 Single or Double Wire System *Double.*
 Position of Dynamos *Starboard Side Engine room.*
 „ Main Switch Board *Near dynamo.*
 No. of Circuits to which Switches are provided on Main Switch Board *4.*
 Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>Navigation</i>	<i>4</i>	<i>60W</i>					
	<i>2</i>	<i>30W</i>	<i>5.0</i>	<i>7/029</i>	<i>1500</i>		<i>100% 1750Ω</i>
<i>Ford Acc.</i>	<i>16</i>	<i>30W</i>					
	<i>14</i>	<i>16c.p.</i>	<i>12.0</i>	<i>7/044</i>	<i>1200</i>	<i>4</i>	<i>900Ω</i>
<i>Aft. acc.</i>	<i>16</i>	<i>30W.</i>					
	<i>16</i>	<i>16c.p.</i>	<i>18.0</i>	<i>7/044</i>	<i>1800</i>	<i>4</i>	<i>“</i>
<i>Eng. & Blk. rooms</i>	<i>13</i>	<i>30W.</i>					
	<i>3</i>	<i>16c.p.</i>	<i>4.0</i>	<i>7/029</i>	<i>3500</i>	<i>4</i>	<i>1250Ω</i>

Total No. of Lights

94

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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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. *Yes*

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

"CARTIERDOC"

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

Fees—

MAIN BOILERS.

	Sq. ft.	£	s.	d.
H.S.		:	:	
G.S.		:	:	

DONKEY BOILERS.

	Sq. ft.	£	s.	d.
H.S.		:	:	
G.S.		:	:	

£	:	:
---	---	---

ENGINES.

	Cub. ft.	£	s.	d.
L.P.C.		:	:	

£	:	:
---	---	---

Testing, &c. ...	:	:
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£	:	:
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Expenses ...	:	:
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Total ... £	:	:
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It is submitted that this Report be approved,

John Lundgreen
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 22ND AUGUST, 1928

Fees advised

Fees paid



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Lloyd's Register
Foundation
Secretary.

GENERAL CONSTRUCTION

H.S.

Ed. H.

H.S.

Ed. H.

G.S.

Ed. H.

L.P.C.

Ed. H.

Testing, etc.

Expenses

Total

It is submitted that this Report be approved.

Chief Engineer

Approved by the Committee for the Class of M.E.S. on the

"CARTIERDOC"

Listed

Listed



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