

No. 1904

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1656 No. in Register Book 2915

STARMOUNT,
"Paljane."
S.S.

Makers of Engines Dunlop Bremner & Co. Ltd.

Works No. 348

Makers of Main Boilers D. Rowan & Co. Ltd.

Works No. B. 314

Makers of Donkey Boiler (none)

Works No. ✓



003429-003433-0047

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

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Report No. 1656 No. in Register Book 2915

Received at Head Office June 1923

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ^{Single Triple} ~~Twin Quadruple~~ Screw Steamer
"Pabjune"

Official No. 888

Port of Registry Greenock.

Registered Owners

D. H. Mape, Junr, Esq.
Montreal, Canada.

Engines Built by

Dunlop Bremner & Co. Ltd

at

Port Glasgow.

Main Boilers Built by

David Rowan & Co. Ltd

at

Glasgow.

Donkey ..

(none.)

at

Date of Completion

4/5/23

First Visit

14/12/22

Last Visit

7/5/23

Total Visits

39

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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 *8.59"* Actual *8³/₄"* In Way of Webs *9"*

" of Crank Pins *9"* Length between Webs *9"*

Greatest Width of Crank Webs *1'-4³/₄"* Thickness *5⁹/₁₆"*

Least " " " " " " " "

Diar. of *Dowels* in Crank Webs *1³/₄"* Length *4¹/₂"*

" Dowels in Crank Pins " Length *4¹/₂"* Screwed on *Plain*, with *1/2"* screwed pins.

No. of Bolts each Coupling *6* Diar. at Mid Length *2¹/₁₆"* Diar. of Pitch Circle *1'-1¹/₄"*

Greatest Distance from Edge of Main Bearing to Crank Web *1/4"*
(crank pin bushes)
Dickson & Mann, Ltd., Armadale.

Type of Thrust Blocks *Horse-shoe.*

No. " *Shoes* *4*

Diar. of Thrust Shafts at bottom of Collars *8³/₄"* No. of Collars *4*

" " Forward Coupling " At Aft Coupling *8³/₄"*

Diar. of Intermediate Shafting by Rule *(none)* Actual No. of Lengths

No. of Bolts, each Coupling Diar. at Mid Length Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule *9.76"* Actual *10¹/₈"* At Couplings *8³/₄"*

Are Propeller Shafts fitted with Continuous Brass Liners? *yes.*

Diar. over Liners *11³/₈"* Length of After Bearings *3'-5"*

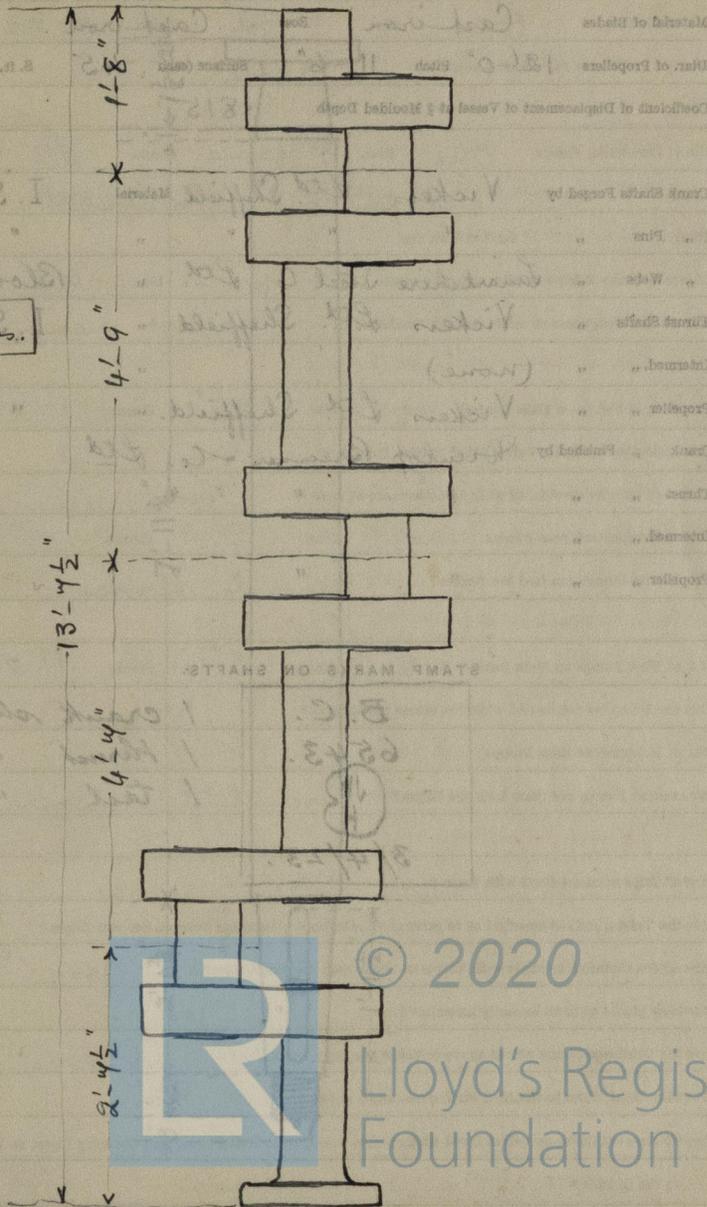
Of what Material are the After Bearings composed? *Lignum Vitae.*

Are Means provided for lubricating the After Bearings with Oil? *no.*

" " to prevent Sea Water entering the Stern Tubes? "

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.

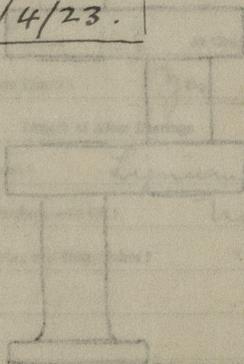


No. of Blades each Propeller *4* ^W Pitted or Solid? *Fitted.*
 Material of Blades *Cast iron.* Boss *Cast iron.*
 Diam. of Propellers *12'-0"* Pitch *11'-6"* Surface (each *45* S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth *815*

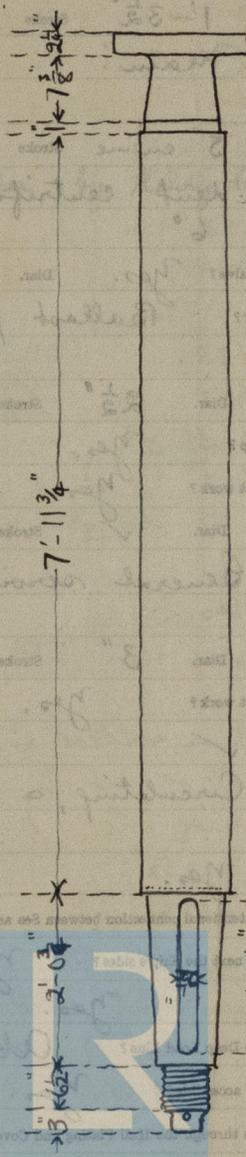
Crank Shafts Forged by *Vickers Ltd. Sheffield.* Material *I. S.*
 " Pins " " " " "
 " Webs " *Lanarkshire Steel Co. Ltd.* " *Blooms.*
 Thrust Shafts " *Vickers Ltd. Sheffield* " *I. S.*
 Intermed. " " *(none)* " "
 Propeller " " *Vickers Ltd. Sheffield.* "
 Crank " Finished by *Dunlop Bremner & Co. Ltd.*
 Thrust " " " " "
 Intermed. " " " " "
 Propeller " " " " "

STAMP MARKS ON SHAFTS.

| | |
|--|----------------------|
| <i>B. C.</i> | <i>1 crank shaft</i> |
| <i>6543.</i> | <i>1 Thrust "</i> |
|  | <i>1 tail "</i> |
| <i>3/4/23.</i> | |



SKETCH OF PROPELLER SHAFT.



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BOILERS.

Works No. **B. 314.**

No. of Boilers **2** Type **Scotch**

Single or Double-ended **Single.**

No. of Furnaces in each **2**

Type of Furnaces **Deighton.**

Date when Plan approved **19/1/23.**

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

Hydraulic Test Pressure **320 "**

Date of Hydraulic Test **23/3/23**

" when Safety Valves set **2/5/23.**

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

Date of Accumulation Test **2/5/23.**

Maximum Pressure under Accumulation Test **191 lb/sq"**

System of Draught **Natural.**

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

Makers of Plates **James Dunlop & Co. Ltd., Calderbank.**

" Stay Bars **Scottish Iron & Steel Co. Ltd.**

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

" Furnaces **John Marshall & Co., Motherwell.**

Greatest Internal Diam. of Boilers **11'-10 $\frac{1}{2}$ "**

" " Length " **10'-10 $\frac{1}{8}$ "**

Square Feet of Heating Surface each Boiler **1349 sq. ft.**

" " Grate " " **35.87 sq. ft.**

No. of Safety Valves each Boiler **One pair** Rule Diam. **2 $\frac{3}{8}$ "** Actual **2 $\frac{1}{2}$ "**

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 "

B.C. TEST
~~4.565~~
320 lbs.
W.P. 180 lbs.
J.W.H.
23/3/23.

4565
J.W.H.

Rings.

Port boiler.
Fd. $\frac{13}{32}$ " Aft. $\frac{3}{8}$ " B. $\frac{3}{8}$ "

Starboard boiler.
Fd. $\frac{3}{8}$ " f. Aft. $\frac{3}{8}$ " b.

Safety valves tested to 360 lb/sq" hyd. by R. L. Greig & Works of Maker, Cockburn & Co. Ltd., 29/3/23.

Whistle valve from under-side of chest, approved, letter from B. C. to W. B. dated 21/3/23.

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?

yes.

No. of Strakes of Shell Plating in each Boiler

One

Plates in each Strake

2

Thickness of Shell Plates Approved

$\frac{63}{64}$ "

in Boilers

"H.W.U."

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

$\frac{3}{4}$ "

inside

$\frac{7}{8}$ "

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

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

Pitch

$4\frac{3}{8}$ "

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

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

Pitch

2.81"

No. of Rows of Rivets in Back End Circumferential Seams

2

Are these Seams Hand or Machine Riveted?

Machine.

Diar. of Rivet Holes

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

Pitch

2.81"

Size of Manholes in Shell

$16" \times 12"$

Dimensions of Compensating Rings

$2'-8" \times 2'-4"$



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Thickness of End Plates in Steam Space Approved

$1\frac{1}{32}$ "

" " " " " in Boilers

"

Pitch of Steam Space Stays

(see opposite)

Diar. " " " " Approved

$2\frac{1}{2}$ " & $2\frac{3}{4}$ " Threads per Inch 6

" " " " in Boilers

" " "

Material of " " "

Steel.

How are Stays Secured?

Nuts both sides.

Diar. and Thickness of Loose Washers on End Plates

✓

" " Riveted " " "

✓

Width " " Doubling Strips "

✓

Thickness of Middle Back End Plates Approved

$\frac{3}{4}$ "

" " " " " in Boilers

"

Thickness of Doublings in Wide Spaces between Fireboxes

✓

Pitch of Stays at

$13\frac{1}{8}$ " x $8\frac{1}{2}$ " (vertical)

Diar. of Stays Approved

$1\frac{3}{4}$ " Threads per Inch 10

" " in Boilers

" " "

Material "

Steel

Are Stays fitted with Nuts outside?

yes.

Thickness of Back End Plates at Bottom Approved

$\frac{3}{4}$ "

" " " " " in Boilers

"

Pitch of Stays at Wide Spaces between Fireboxes

(various.)

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

$\frac{24}{32}$ "

" " " " " in Boilers

"

No. of Longitudinal Stays in Spaces between Furnaces

3

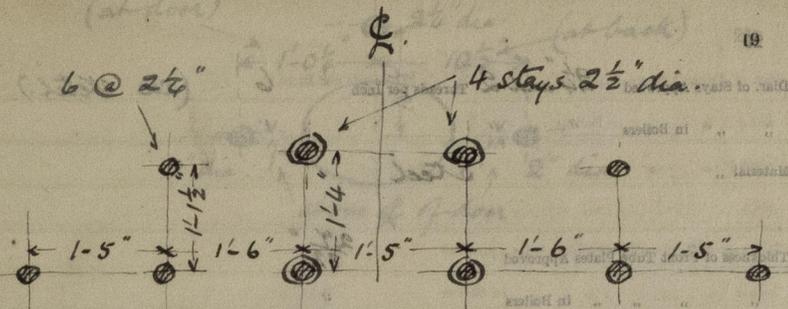


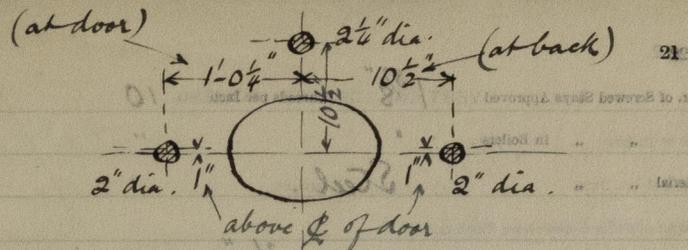
Diagram of stay in boiler
 Thickness of Doubling in
 Thickness of Stay Tube at
 Thickness of Back End Plate Approved
 Pitch of Stay Tube in Back Tube Plates
 Thickness of Stay Tube
 Material of Tube
 Thickness of Furnace Lining Approved
 in Boilers
 Diameter of Stay Tube
 Length between Tube Plates
 Pitch of Stay Tube
 Thickness of Front End Plate at Bottom Approved
 in Boilers
 No. of Longitudinal Stays in Spaces between Furnaces

(at top)
 (at back)
 6 @ 2 1/4"
 4 stays 2 1/2" dia.
 1-5" 1-6" 1-5" 1-6" 1-5"
 1-1 1/2" 1-1 1/4"
 13 1/8" x 8 1/2" (vertical)
 1 3/4" Threads per Inch 10
 Steel
 yes.
 3/4"
 (various.)
 24/32"
 3



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Diar. of Stays Approved $2\frac{1}{4}$ " and 2" Threads per Inch 6 (see sketch.)
 " " in Boilers " " " "
 Material " Steel.
 Thickness of Front Tube Plates Approved $\frac{27}{32}$ "
 " " " " in Boilers " "
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $1'-1\frac{1}{8}" \times 8\frac{3}{4}"$ (vert.)
 Thickness of Doublings in " " " (none.)
 " Stay Tubes at " " " $\frac{5}{16}"$
 Are Stay Tubes fitted with Nuts at Front End? Yes.
 Thickness of Back Tube Plates Approved $\frac{23}{32}"$
 " " " " in Boilers " "
 Pitch of Stay Tubes in Back Tube Plates $8\frac{1}{8}" \times 8\frac{3}{4}"$ (vert.)
 " Plain " ~~9 w.g.~~ $4\frac{7}{16}" \times 4\frac{3}{8}"$ (vert.)
 Thickness of Stay Tubes $\frac{1}{4}"$
 " Plain " 9 w.g.
 External Diar. of Tubes $3\frac{1}{4}"$
 Material " Lapwelded iron.
 Thickness of Furnace Plates Approved $\frac{17}{32}"$
 " " " " in Boilers " "
 Smallest outside Diar. of Furnaces $3'-6\frac{1}{8}"$
 Length between Tube Plates $7'-5\frac{1}{4}"$
 Width of Combustion Chambers (Front to Back) $2'-6\frac{3}{8}"$
 Thickness of " " Tops Approved $\frac{21}{32}"$
 " " " " in Boilers " "
 Pitch of Screwed Stays in C.C. Tops $9\frac{3}{4}" \times 8\frac{3}{8}"$ (between girders)



Thickness of Combustion Chamber sides Approved
 in Boilers
 Pitch of Screwed Stays in C.C. Heads
 Diar. of Stays Approved
 in Boilers
 Material Steel
 Thickness of Combustion Chamber Heads Approved
 in Boilers
 Pitch of Screwed Stays in C.C. Heads
 Diar. of Stays Approved
 in Boilers
 Material Steel
 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 Stays in each
 Size of Power Screws

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Diam. of Screwed Stays Approved

1 5/8"

Threads per Inch

10

" " " in Boilers

Material " "

Steel.

Thickness of Combustion Chamber Sides Approved

2 1/32"

" " " " in Boilers

Pitch of Screwed Stays in C.O. Sides

9 3/4" x 8 3/8" (vert.)

Diam. " " Approved

1 5/8"

Threads per Inch

10

" " " in Boilers

Material " "

Steel.

Thickness of Combustion Chamber Backs Approved

2 1/32"

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

9 3/4" x 8 3/8" (vert.)

Diam. " " Approved

1 5/8"

Threads per Inch

10

" " " in Boilers

Material " "

Steel.

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

Yes.
3/4"

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

5

" " " Centre "

(none)

Depth and Thickness of Girders

4 1/2" x 13/16" (plates - double)

Material of Girders

Steel.

No. of Stays in each

2.

No. of Tubes, each Boiler

142

Size of Lower Manholes

16" x 12"

VERTICAL DONKEY BOILERS

| Type | No. of Boilers |
|---|----------------|
| Height | |
| Height of Boiler Crown above Fire Grate | |
| Are Boiler Crowns Flat or Dished? | |
| Internal Radius of Topped Boilers | |
| Thickness of Plates | |
| Disposition of Stays in Boiler Crowns | |
| Diam. of Rivet Heads | |
| Width of Girths | |
| Height of Waterbox Crown above Fire Grate | |
| Are Firebox Crowns Flat or Dished? | |
| External Radius of Dished Crowns | |
| Thickness of Plates | |
| Diam. | |
| No. of Crown Stays | |
| Internal Diam. of Firebox at Top | |
| Thickness of Plates | |
| No. of Water Tubes | |
| Material of Water Tubes | |
| Size of Manhole in Shell | |
| Disposition of Combustion Bars | |
| Height of Grates, each Boiler | |
| Grate Surface | |

SUPERHEATERS

Disposition of Superheaters

Where placed?

Which boiler are connected to superheaters?

Can superheaters be used on white boilers and why not?

No. of Superheaters

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The Scottish Tube Co. Ltd. Coatbridge.
Chas. McNeil, Ltd. Glasgow.

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 Lengths
 Material
 Grated, Welded or Seamless
 Internal Diar.
 Thickness
 How are Joints secured?
 Date of Hydraulic Test
 Test Pressure

4
 Mild steel
 Seamless
 2 1/2
 2 W.T.
 Secured by caulking
 26/11/22
 240 lbs



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MAIN STEAM PIPES.

| | | | |
|----------------------------|--|--|--|
| No. of Lengths | 4 | | |
| Material | Wrot iron | | |
| Brazed, Welded or Seamless | Capwelded | | |
| Internal Diar. | 3 1/2" | | |
| Thickness | 5 w.g. | | |
| How are Flanges secured? | Screwed with vanishing thread, & expanded. | | |
| Date of Hydraulic Test | 26/4/23. | | |
| Test Pressure | 540 lb/sq" | | |
| 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 | | | |

SUPERHEATERS

LIST OF ROTARY VALVES

7 x 3 1/2" Rotary Valve
 7 x 3 1/2" Rotary Valve
 7 x 3 1/2" Rotary Valve
 7 x 3 1/2" Rotary Valve

FEED WATER HEATERS

3278
 180 lb/sq" Test Pressure
 400 lb/sq" Test Pressure
 400 lb/sq" Test Pressure

FEED WATER FILTERS

4878
 4878
 4878

STEERING GEAR

4878
 4878



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EVAPORATORS.

No. Type (none.) 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 Contact 3378
 Makers Davie & Horne Ltd.
 Working Pressure 180 lb/□ Test Pressure 400 lb/□ Date of Test 9/2/23.

FEED WATER FILTERS.

No. One Type gravitation Size
 Makers Dunlop Bremner & Co. Ltd.
 Working Pressure ✓ Test Pressure ✓ Date of Test ✓

STEERING GEAR.

Donkin & Co. Ltd. 4873

LIST OF DONKEY PUMPS.

Ballast, 7" x 8" x 8", vert. duplex, by
 Dawson & Downie, Ltd.
 General service, 7" x 4½" x 8", vert. dup.
 by Same Makers.
 Sanitary, 4" x 2¾" x 5", vert. dup. by
 Same Makers.



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LIST OF 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 | 3 | " Feed Pump Valves | 1 set. | " Bilge Pump Valves | 1 set. |
| " H.P. Piston Rings | 1 set. | " M.P. Piston Rings | 1 set. | " L.P. Piston Rings | 1 set. |
| " " Springs | ✓ | " " Springs | ✓ | " " Springs | ✓ |
| " Safety Valve " | 1 | " Fire Bars | $\frac{1}{2}$ set (ie. for 2 furnaces) | " Feed Check Valves | 1 |
| " Piston Rods | ✓ | " Connecting Rods | ✓ | " Valve Spindles | ✓ |
| " Air Pump Rods | ✓ | " Air Pump Buckets | ✓ | " Air Pump Valves | 1 set. |
| " Cir. " | ✓ | " Cir. " | ✓ | " Cir. " | ✓ |
| " Crank Shafts | ✓ | " Crank Pin Bushes | ✓ | " Crosshead Bushes | ✓ |
| " Propeller Shafts | ✓ | " Propellers | ✓ | " Propeller Blades | 2 |
| " Boiler Tubes | 6 | " Condenser Tubes | 10 | " Condenser Ferrules | 24 |

OTHER ARTICLES OF SPARE GEAR:—

- 50 Assorted bolts & nuts.
 2 cwt. " plates.
 6 iron bars, 6'-0" by various diam.
 1 escape valve spring of each size.
 1 feed pump. "
 12 gauge glasses.

REFRIGERATORS



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Direct-coupled to single cylinder steam engine
by W. Lissou & Co. Ltd. Gloucester. 2206

ELECTRIC LIGHTING.

Installation Fitted by *H. T. Robertson & Co., Glasgow.*
 No. and Description of Dynamos *One 4.5 Kw. Comp. wound* 38124
 Makers of Dynamos *Lawrence Scott & Co. Ltd. Norwich.*
 Capacity *68* Amperes, at *110* Volts, *575* Revols. per Min.
 Current Alternating or Continuous *Continuous*
 Single or Double Wire System *Double*
 Position of Dynamos *Port 'tween deck, engine room.*
 " Main Switch Board " " " "
 No. of Circuits to which Switches are provided on Main Switch Board *9 (and one spare.)*

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>Owner & Captain.</i> | <i>11</i> | <i>16</i> | <i>5.5</i> | <i>4/029</i> | | <i>98%</i> | <i>1000 meg.</i> |
| <i>Deck hands.</i> | <i>14</i> | <i>"</i> | <i>4</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Navigation.</i> | <i>15</i> | <i>16 & 32</i> | <i>10</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Dining Saloon.</i> | <i>8</i> | <i>16</i> | <i>4</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Engineers.</i> | <i>14</i> | <i>"</i> | <i>4</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Engine-room.</i> | <i>20</i> | <i>"</i> | <i>10</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Stokehold.</i> | <i>3</i> | <i>"</i> | <i>1.5</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Cargo cluster.</i> | <i>20</i> | <i>"</i> | <i>10</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>Hold lights.</i> | <i>12</i> | <i>"</i> | <i>6</i> | <i>"</i> | | <i>"</i> | <i>"</i> |
| <i>(spare.)</i> | | | | | | | |

Total No. of Lights *114* No. of Motors driving Fans, &c. *(none)* No. of Heaters *(none)*
 Current required for Motors and Heaters

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

(none.)

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

Yes.

On Aux. " " each Auxiliary Circuit

Yes.

Wherever a Cable is reduced in size

Yes.

To each Lamp Circuit

Yes.

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Yes.

Are the Fuses of Standard Sizes?

Yes.

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Yes.

Are they placed so as to be always and easily accessible?

Yes.

Smallest Single Wire used, No. 3/029 S.W.G., Largest, No. 19/072 S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

Galvanized conduit.

" Saloons, State Rooms, &c., " ?

Lead-covered.

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

Galvanized conduit.

(2) " " passing through Bunkers or Cargo Spaces

" " "

(3) " " Deck Beams or Bulkheads

Lead bushes, or galvanized steel conduit.

Are all Joints in Cables properly soldered and thoroughly insulated so that the efficiency of the Cables is unimpaired? *no joints.*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? *yes.*Has the Insulation Resistance over the whole system been tested? *yes.*

What does the Resistance amount to?

500,000 Ohms.

Is the Installation supplied with a Voltmeter? *yes.*" " " an Ampere Meter? *yes.*

Date of Trial of complete Installation

7/5/23.

Duration of Trial

6 hours.

Have all the requirements of Section 42 been satisfactorily carried out? *yes.**Governor trial.**Running at 57 amps. 110 volts.**All switches OUT; momentary 120 volts, temp. 117**" " IN; " 105 " " 107*

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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.

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.

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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.

as ascertained by ^{me} from personal examination

"Pabjune,"

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

Fees—

MAIN BOILERS.

£ s. d.

H.S. *2698* Sq. ft. *16 : 3 : 9*

G.S. " : :

DONKEY BOILERS.

H.S. ✓ Sq. ft. : :

G.S. " : :

£ : :

ENGINES.

L.P.C. *29* Cub. ft. *24 : 10 : -*

£ : :

Testing, &c. ... : :

£ : :

Expenses ... : :

Total ... £ : :

It is submitted that this Report be approved,

W. Foster King
 Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *25th July 1923*



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Fees advised

Fees paid

Handwritten signature
 Lloyd's Register
 Foundation Secretary.

13-4-23

14 - " (lunch) 55-5-41

18 " (lunch) 55-5-25

20 " 55-5-25

24 " 55-5-25

26 " 55-5-11

28 " (lunch) 55-5-54

2/5/23 GML 55-1-PI

3 " (lunch) 55-1-25

7 " 55-1-25

(lunch) 55-1-25

55-1-25

(lunch) 55-5-1

55-5-1

55-5-2

55-5-3

(lunch) 55-5-25

55-5-25

(lunch) 55-5-25

55-5-25

55-5-25

(lunch) 55-5-5

55-5-5

(lunch) 55-5-41

55-5-41

55-5-41

(lunch) 55-5-41

55-5-41

55-5-41



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