

No. 1966

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1456 No. in Register Book 3046

COLLIER
S.S. COLLIER NO. 1

Makers of Engines MacCall's Pollock Ltd.

Works No. 340

Makers of Main Boilers Vickers Ltd.

Works No. 610

Makers of Donkey Boiler

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

20th June 1924

Surveyor's Report on the **Detu Engines, Boilers, and Auxiliary Machinery of the** ^{Single Triple} ~~Twin Quadruple~~ **Steamer "COLLIER NO. 1."**

Official No. 147662 Port of Registry

London

Registered Owners

Steamships Ltd. Canada.

Engines Built by

MacColl & Pollock Ltd

at

Sunderland.

Main Boilers Built by

Vickers Ltd.

at

Barrow-in-Furness.

Donkey

at

Date of Completion

6th June 1924

First Visit

3/1/24.

Last Visit

6th June 1924

Total Visits

60

Visits to MacColl & Pollock Ltd.

First visit 3/1/24

Last 5/4/24 Total 32

" Vickers Ltd.

4/1/24

6/4/24 " 28

Grand Total 60

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RECIPROCATING ENGINES.

Works No. *340* No. of Sets *One* Description *Compound Expansion Surface Condensing*

No. of Cylinders each Engine *Two* No. of Cranks *Two*
 Diars of Cylinders *24" - 48"* Stroke *36"*
 Cubic feet in each L.P. Cylinder *37.7*

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

yes.
yes.

" " " each Receiver?

Type of H.P. Valves,

Piston

" 1st I.P. "

" 2nd I.P. "

" L.P. "

" Valve Gear

" Condenser

Flat Single Ported.
Stephenson's Link Motion
Surface

Cooling Surface *1201.73* sq. ft.

Diameter of Piston Rods (plain part) *5 1/4"* Screwed part (bottom of thread) *3.786"*

Material " *Ingot Steel*

Diar. of Connecting Rods (smallest part) *5 1/2"* Material *Ingot Steel*

" Crosshead Gudgeons *6"* Length of Bearing *8 7/8"* Material *Ingot Steel*

No. of Crosshead Bolts (each) *2* Diar. over Thrd. *2 7/8"* Thrds. per inch *6* Material *Steel*

" Crank Pin " *2* " *2 7/8"* " *6* " "

" Main Bearings *Four* Lengths *11 3/8"*

" Bolts in each *2* Diar. over Thread *2 1/2"* Threads per inch *6* Material *Steel*

" Holding Down Bolts, each Engine *48* Diar. *1 1/4"* No. of Metal Chocks *48*

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

Built seat

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

No

If not, how are they fitted? *Fitted bolts through foundation plate.*

Connecting Rods, Forged by

Life Forge Co

Piston " "

Crossheads,

Made from Steel Bar (Stock).

Connecting Rods, Finished by

MacColl & Pollock Ltd.

Piston " "

Crossheads,

Date of Harbour Trial

3rd June 1924

" Trial Trip

6th June 1924

Trials run at

Barrow-in-Furness

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

No

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

Revs. per min.

Pressure in 1st I.P. Receiver,

lbs., 2nd I.P.,

lbs., L.P.,

lbs., Vacuum,

ins.

Speed on 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.

850

Revs. per min.

85

Estimated Speed

9 Knots.



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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

" 1st " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

} Width

Pitch of Teeth

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.



No. of Blades each Propeller *Four* Fitted or Solid? *Fitted*
 Material of Blades *Cast Iron* Boss *Cast Iron*
 Diam. of Propellers *12'-0"* Pitch *11'-6"* Surface (each *47* S. ft. -
 Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth *.82*

Crank Shafts Forged by *Rogerson & Co.* Material *Ingot Steel*
 " Pins " " " " "
 " Webs " " " " " "
 Thrust Shafts " *Vickers Ld.* " " " "
 Intermed. " " " " " "
 Propeller " " *Vickers Ld.* " " " "
 Crank " Finished by *Rogerson & Co. Wolsingham.*
 Thrust " " *Vickers Ld.*
 Intermed. " " *None fitted.*
 Propeller " " *Vickers Ld.*

STAMP MARKS ON SHAFTS.

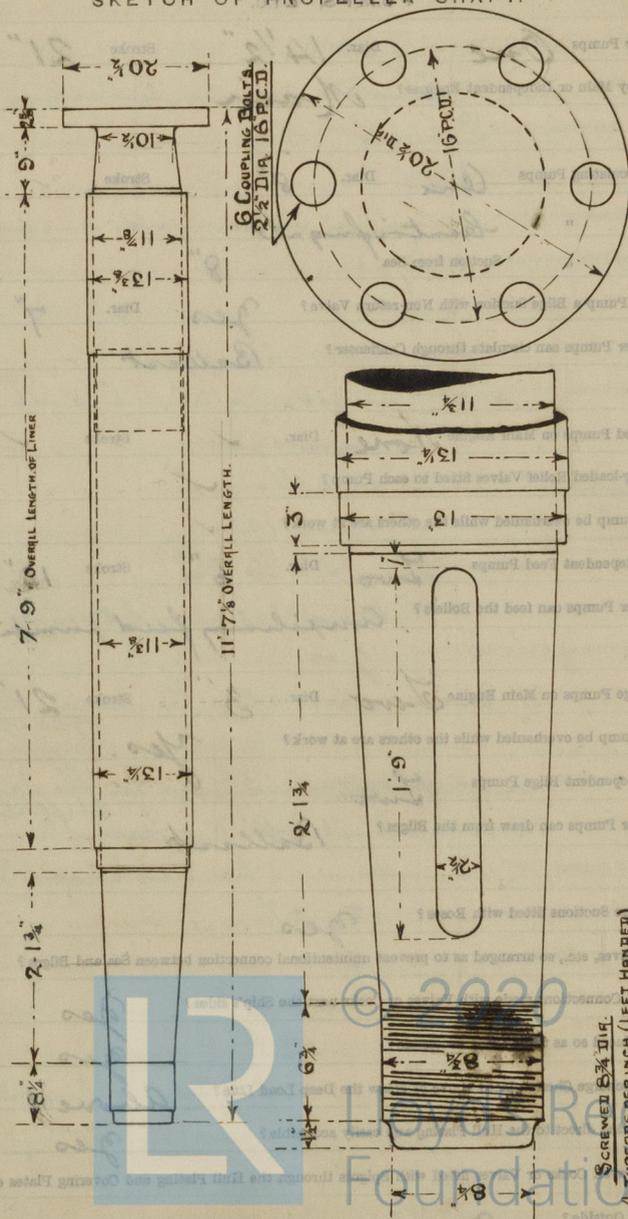
B. C.
 No. 9156.
 G. H. B.
 14-2-24.

B. C.
 No 4623
 H. B.
 4/4/24

CRANK SHAFT.

PROPELLER & THRUST SHAFTS.

SKETCH OF PROPELLER SHAFT.



DETAILS OF COUPLING.

DETAILS OF TAPER, KEY, ETC.

SCREWED 8 X DIA.
 4 THREADS PER INCH (LEFT HANDED)

PUMPS, ETC.

No. of Air Pumps *One* Diar. *14 1/2"* Stroke *21"*

Worked by Main or Independent Engines? *Main*

No. of Circulating Pumps *One* Diar. *8"* Stroke

Type of " *Centrifugal*

Diar. of " *Suction from Sea* *8"*

Has each Pump a Bilge Suction with Non-return Valve? *Yes* Diar. *7"*

What other Pumps can circulate through Condenser? *Ballast*

No. of Feed Pumps on Main Engine *None* Diar. Stroke

Are Spring-loaded Relief Valves fitted to each Pump?

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

No. of Independent Feed Pumps *Two* Diar. *6"* Stroke *13"*

What other Pumps can feed the Boilers? *auxiliary feed pumps*

No. of Bilge Pumps on Main Engine *Two* Diar. *3"* Stroke *21"*

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

No. of Independent Bilge Pumps *Two*

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

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? *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*



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BOILERS.

Works No. 4 *610 P and 610 S.*

No. of Boilers *Two* Type *Single ended circular return tube*

Single or Double-ended *Single*

No. of Furnaces in each *Two*

Type of Furnaces *Deighton withdrawable suspension*

Date when Plan approved *20/2/24.*

Approved Working Pressure *140 lbs*

Hydraulic Test Pressure *260 lbs.*

Date of Hydraulic Test *610 P - 5th/5/24. 610 S - 6th/5/24.*

.. when Safety Valves set *3rd June 1924*

Pressure at which Valves were set *144 lbs per sq*

Date of Accumulation Test *3rd June 1924*

Maximum Pressure under Accumulation Test *153 lbs per sq*

System of Draught *Natural draught.*

Can Boilers be worked separately? *Yes*

Makers of Plates *W. Beardmore & Co., Parkhead Forge, Glasgow.*

.. Stay Bars *United Strip & Bar Mills Ltd., The Dablers Sheffield.*

.. Rivets *North-West Rivet, Bolt & Nut Factory, Urdale.*

.. Furnaces *W. Beardmore & Co., Parkhead Forge, Glasgow.*

Greatest Internal Diam. of Boilers *12'-10³/₁₆*

.. Length .. *11'-0"*

Square Feet of Heating Surface each Boiler *1578 sq*

.. Grate .. *48 sq*

No. of Safety Valves each Boiler *Two* Rule Diam. *2.84"* Actual *3"*

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

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

.. Test Cocks .. *Three* .. Salinometer Cocks *One*

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

Are the Water Gauges 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 Stanches of Shell Fitting in each Boiler

Plates in each Stanch

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Stanch Butt or Lap Joints?

Are the Butt Stanch Single or Double?

Are the Double Butt Stanch of equal width?

Thickness of outside Butt Stanch

inside

Are Longitudinal Stanch Hand or Machine Riveted?

Are they Single, Double, or Triple Riveted?

No. of Rivets in a Lap

Diam. of Rivet Hole

No. of Rows of Rivets in Centre Circumferential Stanch

Are these Stanch Hand or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Front and Circumferential Stanch

Are these Stanch Hand or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Back and Circumferential Stanch

Are these Stanch Hand or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Head or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Head and Circumferential Stanch

Are these Stanch Hand or Machine Riveted?

Diam. of Rivet Hole

Dimensions of Compensating Rings

3.0 x 2.4 x 1.1



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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? *Cocks*

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

No. of Strakes of Shell Plating in each Boiler *One*

Plates in each Strake *Two*

Thickness of Shell Plates Approved *$\frac{39}{32}$*

in Boilers *$\frac{15}{16}$*

Are the Rivets Iron or Steel? *Mild 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 *$\frac{11}{16}$*

inside *$\frac{13}{16}$*

Are Longitudinal Seams Hand or Machine Riveted? *Machine*

Are they Single, Double, or Treble Riveted? *Treble*

No. of Rivets in a Pitch *Five*

Diam. of Rivet Holes *$\frac{31}{32}$* Pitch *$6\frac{3}{4}$*

No. of Rows of Rivets in Centre Circumferential Seams *✓*

Are these Seams Hand or Machine Riveted? *✓*

Diam. of Rivet Holes *✓* Pitch *✓*

No. of Rows of Rivets in Front End Circumferential Seams *Two*

Are these Seams Hand or Machine riveted? *Machine*

Diam. of Rivet Holes *$\frac{31}{32}$* Pitch *3.007"*

No. of Rows of Rivets in Back End Circumferential Seams *Two*

Are these Seams Hand or Machine Riveted? *Machine*

Diam. of Rivet Holes *$\frac{31}{32}$* Pitch *3.007"*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *3'-0" x 2'-4" x 1" Flanged.*



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Thickness of End Plates in Steam Space Approved $1''$

" " " " " in Boilers $1''$

Pitch of Steam Space Stays $16''$ Vertically $18\frac{1}{2}''$ Horizontally (Mean)

Diar. " " " " Approved $2\frac{1}{2}''$ Threads per Inch 6

" " " " " in Boilers $2\frac{1}{2}''$ " 6

Material of " " " Mild steel

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

Diar. and Thickness of Loose Washers on End Plates $5''$ dia by $\frac{3}{8}''$ thick

" " Riveted " " " ✓

Width " " Doubling Strips " " " ✓

Thickness of Middle Back End Plates Approved $\frac{3}{4}''$

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

Thickness of Doublings in Wide Spaces between Fireboxes ✓

Pitch of Stays at " " " $15''$ Horizontally $9''$ Vertically

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

" " in Boilers $1\frac{3}{4}''$ " 9

Material " Mild steel

Are Stays fitted with Nuts outside? Yes

Thickness of Back End Plates at Bottom Approved $\frac{3}{4}''$

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

Pitch of Stays at Wide Spaces between Fireboxes $15''$ Horizontally $9''$ Vertically

Thickness of Doublings in " " $\frac{27}{32}''$

Thickness of Front End Plates at Bottom Approved $\frac{27}{32}''$

" " " " " in Boilers $\frac{27}{32}''$

No. of Longitudinal Stays in Spaces between Furnaces One

Threads per Inch 6

Thickness of Steam Space End Plates Approved $1''$

Thickness of End Plates in Boilers $1''$

Pitch of Steam Space Stays $16''$ Vertically $18\frac{1}{2}''$ Horizontally (Mean)

Diameter of Stays Approved $2\frac{1}{2}''$ Threads per Inch 6

Diameter of Stays in Boilers $2\frac{1}{2}''$ " 6

Material of Stays Mild steel

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

Diameter and Thickness of Loose Washers on End Plates $5''$ dia by $\frac{3}{8}''$ thick

Are Stays Riveted? " " " ✓

Width of Doubling Strips " " " ✓

Thickness of Middle Back End Plates Approved $\frac{3}{4}''$

Thickness of End Plates in Boilers $\frac{3}{4}''$

Thickness of Doublings in Wide Spaces between Fireboxes ✓

Pitch of Stays at " " " $15''$ Horizontally $9''$ Vertically

Diameter of Stays Approved $1\frac{3}{4}''$ Threads per Inch 9

Diameter of Stays in Boilers $1\frac{3}{4}''$ " 9

Material of Stays Mild steel

Are Stays fitted with Nuts outside? Yes

Thickness of Back End Plates at Bottom Approved $\frac{3}{4}''$

Thickness of End Plates in Boilers $\frac{3}{4}''$

Pitch of Stays at Wide Spaces between Fireboxes $15''$ Horizontally $9''$ Vertically

Thickness of Doublings in " " $\frac{27}{32}''$

Thickness of Front End Plates at Bottom Approved $\frac{27}{32}''$

Thickness of End Plates in Boilers $\frac{27}{32}''$

No. of Longitudinal Stays in Spaces between Furnaces One



Diam. of Screwed Stays Approved $1\frac{5}{8}$ " Threads per Inch 9

" " " in Boilers $1\frac{5}{8}$ "

Material " " Mild steel

Thickness of Combustion Chamber Sides Approved $\frac{19}{32}$ "

" " " " in Boilers $\frac{19}{32}$ "

Pitch of Screwed Stays in C.O. Sides $9\frac{1}{2}$ " Horizontally 9" Vertically

Diam. " " Approved $1\frac{5}{8}$ " Threads per Inch 9

" " " in Boilers $1\frac{5}{8}$ "

Material " " Mild steel

Thickness of Combustion Chamber Backs Approved $\frac{19}{32}$ "

" " " " in Boilers $\frac{19}{32}$ "

Pitch of Screwed Stays in C.O. Backs $9\frac{1}{2}$ " Horizontally 9" Vertically
Corner stays 3" Margin 1 3/4" Ordinary 1 5/8"

Diam. " " Approved $1\frac{5}{8}$ " Threads per Inch 9

" " " in Boilers "

Material " " Mild steel

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

Thickness of Combustion Chamber Bottoms $\frac{3}{4}$ "

No. of Girders over each Wing Chamber *Five*

" " " Centre " *✓*

Depth and Thickness of Girders *Two plates 7 1/4" x 5/8" thick*

Material of Girders *Steel plate*

No. of Stays in each *Two*

No. of Tubes, each Boiler *198, 42 of which are stay tubes*

Size of Lower Manholes *16" x 12"*

VERTICAL DONKEY BOILERS

No. of Boilers

Type

Greatest Lat. Diam.

Height

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Crowns

Thickness of Plates

Description of Stays in Boiler Crown

Diam. of Rivet Holes

Width of Overlap

Height of Rivet Box Crown above Fire Grate

Are Rivet Box Crowns Flat or Dished?

Internal Radius of Dished Crowns

Thickness of Plates

Material

Diam.

No. of Crown Stays

External Diam. of Rivet at Top

Bottom

Thickness of Plates

No. of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Compensating Joint

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 Lengths
 Material
 Joints, Welded or Seamed
 Internal Diar.
 Thickness
 How are Joints secured?
 Date of Hydraulic Test
 Test Pressure
 No. of Lengths
 Material
 Joints, Welded or Seamed
 Internal Diar.
 Thickness
 How are Joints secured?
 Date of Hydraulic Test
 Test Pressure
 No. of Lengths
 Material
 Joints, Welded or Seamed
 Internal Diar.
 Thickness
 How are Joints secured?
 Date of Hydraulic Test
 Test Pressure



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MAIN STEAM PIPES.

No. of Lengths *Two*
 Material *Copper*
 Brazed, Welded or Seamless *Seamless*
 Internal Diar. *4 1/2"*
 Thickness *.160"*
 How are Flanges secured? *Brazed*
 Date of Hydraulic Test *23/5/24*
 Test Pressure *280 lbs*

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

SUPERHEATERS

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

STEAM PUMPS

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. *Two* Type *Two* Tons per Day
 Makers *None fitted.*
 Working Pressure *None* Test Pressure *None* Date of Test
 Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No. *One* Type *Surface heating*
 Makers *Baird & Raynor*
 Working Pressure *140 lbs* Test Pressure *Shell 50 lbs
boils 280 lbs* Date of Test *1/5/24.*

FEED WATER FILTERS.

No. *One* Type *Gravitation (Triple filtration)* *Section*
 Makers *Baird & Raynor* *3" Dia*
 Working Pressure *5 lbs* Test Pressure *30 lbs* Date of Test *17/4/24.*

LIST OF DONKEY PUMPS.

TYPE.	SIZE.	MAKERS.
<i>Aux. feed pump</i>	<i>8" x 5" x 8"</i>	<i>Dawson & Downey</i>
<i>Aux circulating "</i>	<i>6" x 6" x 6"</i>	<i>" "</i>
<i>Ballast "</i>	<i>10" x 10" x 10"</i>	<i>" "</i>
<i>Sanitary "</i>	<i>4" x 2 3/4" x 5"</i>	<i>" "</i>
<i>Fresh water "</i>	<i>3 1/2" x 2 1/2" x 4"</i>	<i>" "</i>



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ELECTRIC LIGHTING.

Installation Fitted by *Messrs Vickers Ltd. Barrow-in-Furness.*No. and Description of Dynamos *One 10 K.W.*Makers of Dynamos *Messrs Reader & Sons Ltd. Nottingham*Capacity " *91* Amperes, at *110* Volts = *10 K.W.* at *Revs. per Min. 450*Current Alternating or Continuous *Continuous*Single or Double Wire System *Double*Position of Dynamo *on flat, starboard side of engine room*" Main Switch Board *behind dynamo (Starboard side framing)*No. of Circuits to which Switches are provided on Main Switch Board *Five*

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>Brew forward</i>	<i>22</i>	<i>30 Watt</i>	<i>6.0</i>	<i>.007 24 Amps</i>			
	<i>7</i>	<i>16 C.P.</i>	<i>3.6</i>				
	<i>2</i>	<i>60 Watt</i>	<i>1.0</i>				
<i>Navigation and Captain</i>	<i>3</i>	<i>32 C.P.</i>	<i>3.0</i>	<i>.007 24 Amps</i>			
	<i>4</i>	<i>2½ C.P.</i>	<i>.50</i>				
	<i>10</i>	<i>30 Watt</i>	<i>2.7</i>				
	<i>1</i>	<i>16 C.P.</i>	<i>.50</i>				
<i>Midship</i>	<i>5</i>	<i>150 Watt</i>	<i>6.5</i>	<i>.007 24 Amps</i>			
	<i>13</i>	<i>16 C.P.</i>	<i>6.5</i>				
	<i>7</i>	<i>30 Watt</i>	<i>1.9</i>				
<i>Brew aft</i>	<i>29</i>	<i>30 Watt</i>	<i>7.86</i>	<i>.007 24 Amps</i>			
	<i>2</i>	<i>60 Watt</i>	<i>1.0</i>				
	<i>7</i>	<i>16 C.P.</i>	<i>3.5</i>				
	<i>1</i>	<i>32 C.P.</i>	<i>1.0</i>				
	<i>2</i>	<i>2½ C.P.</i>	<i>.25</i>				
<i>Machinery</i>	<i>27</i>	<i>30 Watt</i>	<i>7.34</i>	<i>.007 24 Amps</i>			
	<i>4</i>	<i>16 C.P.</i>	<i>2.0</i>				
Total No. of Lights	<i>146</i>	No. of Motors driving Fans, &c.	<i>None</i>	No. of Heaters	<i>None</i>		
Current required for Motors and Heaters			<i>None</i>				

*99%**600 Megohms.*

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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 tests been made to prove that the condition has been satisfactorily fulfilled?

What does the Resistance amount to?

Is the Installation supplied with a Ventilator?

Date of Test of complete Installation

Have all the requirements of Section 22 been satisfactorily carried out?

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*

Are they placed so as to be strong and work satisfactorily?

The above correctly describes the Machinery of the S.S.

as ascertained by ^{us} ~~me~~ from personal examination

Bryan Hodgson

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

Fees—

MAIN BOILERS.

£ s. d.

H.S. *3156* Sq. ft. : :

G.S. *96* " : :

DONKEY BOILERS.

H.S. ✓ Sq. ft. : :

G.S. ✓ " : :

£ : :

ENGINES.

L.P.C. *37.7* Cub. ft. : :

£ : :

Testing, &c. : :

£ : :

Expenses *L. Vickers Ltd* *23* : - : -

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 *25th June 1924.*



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Fees advised

Fees paid

Notary Public
Secretary.

GENERAL STATEMENT

MAIR DOBBS

H.S. Sp. S.

DOBBY DOBBS

H.S. Sp. S.

It is submitted that this Report be approved.

Approved by the Committee for the Class of M.B.S. on the 10th day of June 1914.

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