

No. 2133

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 1943 No. in Register Book 3270

S.S. "CHARLES R HUNTLEY"

Makers of Engines E. Rowan & Co Ltd

Works No. 830

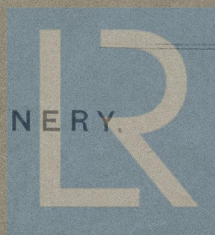
Makers of Main Boilers E. Rowan & Co Ltd

Works No. 830

Makers of Donkey Boiler —

Works No. —

MACHINERY



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No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. *1943* No. in Register Book *3270*

Received at Head Office *10<sup>th</sup> April 1926*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the ~~Single Triple~~ *Double* Screw Steamship

"*CHARLES R. HUNTLEY*"

Official No. Port of Registry *Glasgow*

Registered Owners *Eastern Steamship Co Ltd*

Engines Built by *S. Rowan & Co Ltd*

at *Glasgow*

Main Boilers Built by *S. Rowan & Co Ltd*

at *Glasgow*

Donkey " "

at *none fitted*

Date of Completion *25/3/26*

First Visit *16/11/25* Last Visit *25/3/26* Total Visits *30*



## RECIPROCATING ENGINES.

Works No. **830** No. of Sets **1** Description **Triple Expansion**  
**surface condensing steam engine**

No. of Cylinders each Engine **3** No. of Cranks **3**  
 Diars. of Cylinders **17, 28½" and 44"** Stroke **33"**

Cubic feet in each L.P. Cylinder **33.1**

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? **on H.P.; I.P. & L.P. bottom only.**

" " " each Receiver? **I.P. & L.P.**

Type of H.P. Valves, **Piston (inside steam)**

" 1st I.P. " **Andrews & Cameron**

" 2nd I.P. "

" L.P. " **Double-ported D**

" Valve Gear **Stephensons**

" Condenser **Surface**

Cooling Surface **1000** sq. ft.

Diameter of Piston Rods (plain part) **4½"** Screwed part (bottom of thread) **3½" app.**

Material " **M. Steel**

Diar. of Connecting Rods (smallest part) **4¼"** Material **M. Steel**

" Crosshead Gudgeons **5"** Length of Bearing **4½"** Material **"**

No. of Crosshead Bolts (each) **2** Diar. over Thrd. **2½"** Thrds. per inch **4** Material **Steel**

" Crank Pin " **2** " " " " " "

" Main Bearings **6** Lengths **9"**

" Bolts in each **2** Diar. over Thread **2"** Threads per inch **4** Material **Steel**

" Holding Down Bolts, each Engine **72** Diar. **1"** No. of Metal Chocks **72**

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 **S. Rowan & Co Ltd**

Piston " " " " " "

Crossheads, " " " " " "

Connecting Rods, Finished by **S. Rowan & Co Ltd**

Piston " " " " " "

Crossheads, " " " " " "

Date of Harbour Trial **4/3/26.**

" Trial Trip **25/3/26.**

Trials run at **Skelmorlie**

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

If so, what was the I.H.P.? **1050**

Revs. per min. **94.**

Pressure in 1st I.P. Receiver, **68** lbs., 2nd I.P., **—** lbs., L.P., **13** lbs., Vacuum, **28.5** ins.

Speed on Trial **9.933.**

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

data:—

Builders' estimated I.H.P. **1000.**

Revs. per min. **100.**

Estimated Speed

**6 in thrust block.**



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## 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?			
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.	
If the Conditions on Trial were such that full power records were obtained			
" " 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			

## TURBO-ELECTRIC MACHINERY. DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets	Capacity of each
Type of Turbines employed	
Description of Generator	
No. of Motors driving Propeller Shafts	
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
" 1st " Wheel	
Estimated Pressure per lineal inch	
Diam. of 2nd Reduction Pinion	} Width
" 2nd " Wheel	
Estimated Pressure per lineal inch	
Revs. per min. of Generators at Full Power	
" Motors	
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	



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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

*9.025*

Actual

*9"*

In Way of Webs

*9 1/4"*

,, of Crank Pins

*9"*

Length between Webs

*9"*

Greatest Width of Crank Webs

*14 1/4"*

Thickness

*5 7/8"*

Least

,, ,,

*13 1/8"*

,,

*5 7/8"*

Diar. of Keys in Crank Webs

*1 1/2" dowels*

Length

*3 1/2"*

,, Dowels in Crank Pins

*1"*

Length

*2 1/2"*

Screwed or Plain

*Plain*

No. of Bolts each Coupling

*6*

Diar. at Mid Length

*2 1/8"*

Diar. of Pitch Circle

*14 3/4"*

Greatest Distance from Edge of Main Bearing to Crank Web

*1/2"*

Type of Thrust Blocks

*Horse shoe*

No.

,, Rings

*4*

Diar. of Thrust Shafts at bottom of Collars

*9.025**9 1/4"*

No. of Collars

*4*

,,

,,

Forward Coupling

*9"*

At Aft Coupling

*8 5/8"*

Diar. of Intermediate Shafting by Rule

*8.59*

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

*9.63*

Actual

*10.375*

At Couplings

*9"*

Are Propeller Shafts fitted with Continuous Brass Liners?

*Yes.*

Diar. over Liners

*11 5/8" for 11 1/2" aft*

Length of After Bearings

*3'-6"*

Of what Material are the After Bearings composed?

*Lignum Vitae*

Are Means provided for lubricating the After Bearings with Oil?

*Yes, small hand pump.*

,,

to prevent Sea Water entering the Stern Tubes?

*No*

If so, what Type is adopted?

*Sea-water lubrication.*

## SKETCH OF CRANK SHAFT.

Same as S/NORTHAN B. HALPHERSON (Rowans No 813)



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Foundation*for emergency.*



No. of Blades each Propeller *4* Fitted or Solid? *Fitted*  
 Material of Blades *Cast Steel* Boss *Cast Iron*  
 Diam. of Propellers *12'-6"* Pitch *12'-0* Surface (each *47* S. ft.  
 Coefficient of Displacement of Vessel at  $\frac{1}{2}$  Moulded Depth *84*

Crank Shafts Forged by *Press and Walkwork Building* Material *1.S.*  
 " Pins " " " " "  
 " Webs " " " " " "  
 Thrust Shafts " " " " " "  
 Intermed. " " " " " "  
 Propeller " " " " " "  
 Crank " Finished by *David Rowan & Co Ltd*  
 Thrust " " " " " "  
 Intermed. " " " " " "  
 Propeller " " " " " "

STAMP MARKS ON SHAFTS.

B. C.  
 N° 3269.  
 J. W. H.  
 14/1/26

# SKETCH OF PROPELLER SHAFT.

Same as *S/NATHAN B. HADDERSON* (Rowan's 8/13)

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## PUMPS, ETC.

No. of Air Pumps *One*      Diar. *13"*      Stroke *18"*  
 Worked by Main or Independent Engines? *Main engines from H.P. engine*  
*Edwards type*  
 No. of Circulating Pumps *One*      Diar. *9 1/2"*      Stroke *18"*  
 Type of " *Double acting plunger.*  
 Diar. of " *Suction from Sea* *6"*  
 Has each Pump a Bilge Suction with Non-return Valve? *Yes*      Diar. *6"*  
 What other Pumps can circulate through Condenser? *The Auxiliary circulating pump and Ballast pump.*  
 No. of Feed Pumps on Main Engine *2*      Diar. *2 1/2"*      Stroke *18"*  
 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 (Weirs)*  
*also Penworthy Injector with Suctions from F.W. tank & Sea.*  
 No. of Bilge Pumps on Main Engine *2*      Diar. *3"*      Stroke *18"*  
 Can one Pump be overhauled while the others are at work? *Yes.*  
 No. of Independent Bilge Pumps *None.*  
 What other Pumps can draw from the Bilges? *Ballast pump, and auxiliary circulating pump.*  
 Are all Bilge Suctions fitted with Roses? *Yes, except straight pipes in E.R.*  
 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.*

## — TANKS. —

Examined tank piping & recommended *2 1/2" under pipes 9/2/26.*  
*alterations 25/2/26.*  
 Tank pipe lines composed of *W.I. pipes with screwed and expanded flanges; lead bends in aft end No 2 to Engineers' connections.*

## — BILGES. —

Examined bilge lines in holds *9/2/26.*  
 Recommended alteration *E.R. indep. bilge 4/3/26*  
 Examined " " " *9/3/26.*  
 Steam test all bilges; satisfactory *11/3/26.*



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## BOILERS.

Works No. **830**

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

Single or Double-ended **Single**

No. of Furnaces in each **Two**

Type of Furnaces **Corrugated (Leighton's)**

Date when Plan approved **1/9/25**

Approved Working Pressure **180 lbs/p"**

Hydraulic Test Pressure **320 lbs/p"**

Date of Hydraulic Test **2/2/26**

" when Safety Valves set **4/3/26**

Pressure at which Valves were set **185 lbs/p"**

Date of Accumulation Test **4/3/26**

Maximum Pressure under Accumulation Test **187 lbs/p"**

System of Draught **Howden's Forced Draught.**

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

Makers of Plates **Phoenix Works Steel Works, Germany.**

" Stay Bars **Gutehoffnungshütte Co, Oberhausen, Germany**

" Rivets **Rivet, Bolt, and Nut Co Glasgow**

" Furnaces **J. Marshall & Co Motherwell**

Greatest Internal Diam. of Boilers **11'-10 1/2"**

" " Length " **10'-10 1/8"**

Square Feet of Heating Surface each Boiler **1425**

" " Grate " " **36.65**

No. of Safety Valves each Boiler **2** Rule Diam. **2.375"** Actual **2 1/2"**

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

No. of Pressure Gauges, each Boiler **1 E.R.** No. of Water Gauges **One**

" Test Cocks **3** " Salinometer Cocks **One**

B.C. TEST

No 4934

TEST P. 320 lbs/p"

WORK. P 180 "

G.H.L.

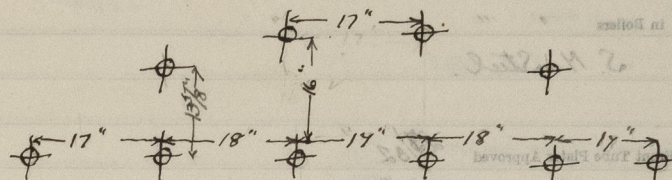
2/2/26



1"  
Steel  
ap Joints ?  
Butt  
double  
width ?  
yes.  
3/4"



Thickness of End Plates in Steam Space Approved  $\frac{1}{32}$ "  
 " " " " " in Boilers  $1\frac{1}{32}$ "  
 Pitch of Steam Space Stays *See sketch.*  
 Diar. " " " " Approved  $4-2\frac{1}{2}$ " Threads per Inch 6.  
 " " " " in Boilers  $6-2\frac{1}{4}$ " " "  
 Material of " " " *S. M. Steel*  
 How are Stays Secured? *Nuts inside and outside*  
 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  $\frac{3}{4}$ "  
 Thickness of Doublings in Wide Spaces between Fireboxes —  
 Pitch of Stays at " " " "  $13" + 8\frac{1}{2}"$   
 Diar. of Stays Approved  $1\frac{3}{4}"$  Threads per Inch 9  
 " " in Boilers  $1\frac{3}{4}"$  " "  
 Material " *S. M. 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 *Manhole with 3 stays*  
 Thickness of Doublings in " " —  
 Thickness of Front End Plates at Bottom Approved  $2\frac{1}{32}"$   
 " " " " " in Boilers  $\frac{1}{8}"$   
 No. of Longitudinal Stays in Spaces between Furnaces *3 at manhole and*  
*2 above furnaces to back tubeplate*



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Diar. of Stays Approved  $2" + 2\frac{1}{4}"$  Threads per Inch 6 ; tubeplate and  
 " " in Boilers " " " "  
 Material ,, S. N. Steel.

Thickness of Front Tube Plates Approved  $2\frac{3}{32}"$   
 " " " " in Boilers  $\frac{7}{8}"$   
 Pitch of Stay Tubes at Spaces between Stacks of Tubes  $13" \times 4\frac{1}{4}"$   
 Thickness of Doublings in " " " "  
 " Stay Tubes at " " "  $3\frac{1}{8}"$

Are Stay Tubes fitted with Nuts at Front End? Marginal stay tubes at centre  
 Spacing only; nut  $\frac{3}{4}"$  thick.

Thickness of Back Tube Plates Approved  $2\frac{3}{32}"$   
 " " " " in Boilers  $\frac{23}{32}"$   
 Pitch of Stay Tubes in Back Tube Plates  $11\frac{5}{32}" + 9"$  mean pitch  
 " Plain "  $3\frac{23}{32}" + 3\frac{5}{8}"$

Thickness of Stay Tubes  $\frac{7}{16}"$  centre  $\frac{3}{8}"$  marginal  
 " Plain " 9 W.G.

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

Material ,, Lapwelded Iron

Thickness of Furnace Plates Approved  $3\frac{3}{64}"$

" " " " in Boilers  $3\frac{3}{64}"$

Smallest outside Diar. of Furnaces  $3'-5\frac{29}{32}"$

Length between Tube Plates  $4'-4"$

Width of Combustion Chambers (Front to Back)  $2'-6\frac{57}{8}"$

Thickness of " " Tops Approved  $2\frac{1}{32}"$

" " " " in Boilers  $2\frac{1}{32}"$

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

side manhole stay  $2"$ ; top manhole  $2\frac{1}{4}"$



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

" " " in Boilers " "

Material " " S. M. Steel

Thickness of Combustion Chamber Sides Approved  $2\frac{1}{32}$ "

" " " in Boilers  $2\frac{1}{32}$ "

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

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

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

Material " " S. M. Steel

Thickness of Combustion Chamber Backs Approved  $2\frac{1}{32}$ "

" " " in Boilers  $2\frac{1}{32}$ "

Pitch of Screwed Stays in C.O. Backs  $9\frac{3}{4}$ "  $\times$   $8\frac{1}{2}$ " V

Diar. " " Approved  $1\frac{5}{8}$ "  $1\frac{3}{4}$ "  $1\frac{1}{8}$ " Threads per Inch 9, and 2" top corner.

" " " in Boilers " " "

Material " " S. M. Steel

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

Thickness of Combustion Chamber Bottoms  $3\frac{1}{4}$ "

No. of Girders over each Wing Chamber 5

" " " Centre " -

Depth and Thickness of Girders 4", 2 plates  $1\frac{3}{16}$ " thick

Material of Girders S. M. Steel

No. of Stays in each 2

No. of Tubes, each Boiler 244

Size of Lower Manholes 16"  $\times$  12"

# 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 Ends  
Description of Stays in Boiler Crowns  
Diam. of Rivet Holes  
Width of Overlap  
Height of Firebox Crown above Fire Grate  
Are Firebox Crowns Flat or Dished?  
External Radius of Dished Crowns  
Thickness of Plates  
No. of Crown Stays  
Diam.  
Material  
External Diam. of Firebox at Top  
Bottom  
Thickness  
No. of Water Tubes  
Int. Diam.  
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 running?

No. of Safety Valves on each Superheater

Date of last examination

Date of last examination

Date of last examination

Date of last examination



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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

Joined, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Joined, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Joined, Welded or Seamed

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure



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## MAIN STEAM PIPES.

No. of Lengths	2		
Material	Iron		
Brazed, Welded or Seamless	L. W.		
Internal Diam.	4 1/2" d.		
Thickness	1/4"		
How are Flanges secured?	Screwed & Exp'd		
Date of Hydraulic Test	24/2/26		
Test Pressure	540 1/2 lb/sq		
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			

## SUPERHEATERS.

## LIST OF EVAPORATORS.

No.	Type	Location	Working Pressure
1	Ballast Pump	Ballast Pump	5 lb/sq
2	Feed Water Heaters	Feed Water Heaters	5 lb/sq
3	Feed Water Filters	Feed Water Filters	5 lb/sq
4	Feed Water Pumps	Feed Water Pumps	5 lb/sq
5	Feed Water Tanks	Feed Water Tanks	5 lb/sq
6	Feed Water Pipes	Feed Water Pipes	5 lb/sq
7	Feed Water Valves	Feed Water Valves	5 lb/sq
8	Feed Water Fittings	Feed Water Fittings	5 lb/sq
9	Feed Water Flanges	Feed Water Flanges	5 lb/sq
10	Feed Water Bolts	Feed Water Bolts	5 lb/sq
11	Feed Water Nuts	Feed Water Nuts	5 lb/sq
12	Feed Water Washers	Feed Water Washers	5 lb/sq
13	Feed Water Gaskets	Feed Water Gaskets	5 lb/sq
14	Feed Water Seals	Feed Water Seals	5 lb/sq
15	Feed Water O-rings	Feed Water O-rings	5 lb/sq
16	Feed Water Springs	Feed Water Springs	5 lb/sq
17	Feed Water Dampers	Feed Water Dampers	5 lb/sq
18	Feed Water Insulators	Feed Water Insulators	5 lb/sq
19	Feed Water Shields	Feed Water Shields	5 lb/sq
20	Feed Water Guards	Feed Water Guards	5 lb/sq
21	Feed Water Covers	Feed Water Covers	5 lb/sq
22	Feed Water Caps	Feed Water Caps	5 lb/sq
23	Feed Water Plugs	Feed Water Plugs	5 lb/sq
24	Feed Water Stoppers	Feed Water Stoppers	5 lb/sq
25	Feed Water Cocks	Feed Water Cocks	5 lb/sq
26	Feed Water Taps	Feed Water Taps	5 lb/sq
27	Feed Water Drains	Feed Water Drains	5 lb/sq
28	Feed Water Vents	Feed Water Vents	5 lb/sq
29	Feed Water Purges	Feed Water Purges	5 lb/sq
30	Feed Water Bypasses	Feed Water Bypasses	5 lb/sq
31	Feed Water Isolators	Feed Water Isolators	5 lb/sq
32	Feed Water Check Valves	Feed Water Check Valves	5 lb/sq
33	Feed Water Relief Valves	Feed Water Relief Valves	5 lb/sq
34	Feed Water Safety Valves	Feed Water Safety Valves	5 lb/sq
35	Feed Water Pressure Reducers	Feed Water Pressure Reducers	5 lb/sq
36	Feed Water Pressure Boosters	Feed Water Pressure Boosters	5 lb/sq
37	Feed Water Pressure Regulators	Feed Water Pressure Regulators	5 lb/sq
38	Feed Water Pressure Transmitters	Feed Water Pressure Transmitters	5 lb/sq
39	Feed Water Pressure Controllers	Feed Water Pressure Controllers	5 lb/sq
40	Feed Water Pressure Alarms	Feed Water Pressure Alarms	5 lb/sq
41	Feed Water Pressure Switches	Feed Water Pressure Switches	5 lb/sq
42	Feed Water Pressure Sensors	Feed Water Pressure Sensors	5 lb/sq
43	Feed Water Pressure Actuators	Feed Water Pressure Actuators	5 lb/sq
44	Feed Water Pressure Indicators	Feed Water Pressure Indicators	5 lb/sq
45	Feed Water Pressure Recorders	Feed Water Pressure Recorders	5 lb/sq
46	Feed Water Pressure Loggers	Feed Water Pressure Loggers	5 lb/sq
47	Feed Water Pressure Monitors	Feed Water Pressure Monitors	5 lb/sq
48	Feed Water Pressure Controllers	Feed Water Pressure Controllers	5 lb/sq
49	Feed Water Pressure Regulators	Feed Water Pressure Regulators	5 lb/sq
50	Feed Water Pressure Transmitters	Feed Water Pressure Transmitters	5 lb/sq



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## EVAPORATORS.

No.	Type	Tons per Day
Makers	<i>None fitted</i>	
Working Pressure	Test Pressure	Date of Test
Date of Test of Safety Valves under Steam		

## FEED WATER HEATERS.

No.	Type	High pressure surface
Makers	<i>Henry Watson &amp; Sons Ltd Newcastle-on-Tyne</i>	
Working Pressure	Test Pressure	Date of Test
<i>Body about 150 lbs</i> <i>coils 180</i> <i>coils 432</i> <i>12/11/25</i> <i>13/1/26</i>		

## FEED WATER FILTERS.

No.	Type	Suction filter (low pressure)	Size
Makers	<i>Henry Watson &amp; Sons Ltd Newcastle-on-Tyne</i>		
Working Pressure	Test Pressure	Date of Test	

## LIST OF DONKEY PUMPS.

Ballast Pump :- *S. Rowan & Co Ltd*

Suctions :- *Sea, main and indep. bilges, tanks.*

Discharges :- *Overboard, tanks, condenser.*

Acc. Circulating Pump :- *Henry Watson & Sons Ltd*

Suctions :- *Sea, and main bilge line.*

Discharges :- *Overboard, tanks, condenser.*

General Service Pump :- *G. & J. Weir Ltd*

Suctions :- *Sea, boilers, hotwell, F.W. tank.*

Discharges :- *main & aux feed, deck, overboard and ash ejector.*

Culinary Pump :- *Thos. Lamont & Co Ltd*

*5 1/2" x 5" x 4"*

Pemberthy Injector to aux feed line; suction from sea and F.W. tank.



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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.
" Coupling Bolts 6 (1 set)	" Main Bearing Bolts 2	" Valve Chest " } 12.
" Junk Ring Bolts 12.	" Feed Pump Valves 1 set.	" Bilge Pump Valves 1 set.
" H.P. Piston Rings 1	" I.P. Piston Rings 1	" L.P. Piston Rings } coach springs
" " Springs	" " Springs	" " Springs } 1 set.
" Safety Valve " 1	" Fire Bars 50 bars	" Feed Check Valves 2.
" Piston Rods —	" Connecting Rods —	" Valve Spindles —
" Air Pump Rods —	" Air Pump Buckets —	" Air Pump Valves —
" Cir. " —	" Cir. " —	" Cir. " 1 set.
" Crank Shafts —	" Crank Pin Bushes —	" Crosshead Bushes —
" Propeller Shafts —	" Propellers —	" Propeller Blades 2.
" Boiler Tubes —	" Condenser Tubes 10	" Condenser Ferrules 24.

## OTHER ARTICLES OF SPARE GEAR:—

2 ordinary tube stoppers.

2 patent " " "

Quantity spare bolts, nuts, studs, bars &amp; sheet metal

## REFRIGERATORS

No. of Machines

Capacity of each

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

Air Intake and other Refrigerating Valves placed so as to be accessible without entering the Machine

Access to Machine

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

Are all Pipes, Condensing, 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

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## REFRIGERATORS.

No. of Machines *2* Capacity of each *2* No. of Cylinders *12*  
 Makers *6 (800)* Make Heating Boils *2* Make Boils *12*  
 Description *12* *1 set* *1 set*  
*1* *1* *1 set*

No. of Steam Cylinders, each Machine No. of Compressors No. of Cranks *2*

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

*None fitted*

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.
No. of Cylinders				
Capacity				
Particulars of Compressors				
Single or Double Win System				
Particulars of Pumps				
Make Heating Boils				
No. of Cranks in which Unitaries are provided				
Particulars of these Unitaries				
Result				
2nd Decom				
2nd				
1. Inj. & 2nd				
4. 3rd				

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



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## ELECTRIC LIGHTING.

Installation Fitted by *Messrs. Blands & Hamilton Ltd*

No. and Description of Dynamos *One compound wound direct coupled to steam engine*

Makers of Dynamos *Electric Construction Co Ltd Wolverhampton*

Capacity *5 KW; 45.5* Amperes, at *110* Volts, *600* Revols. per Min.

Current Alternating or Continuous *Continuous*

Single or Double Wire System *Double-wire*

Position of Dynamos *Engine-room start side, middle platform*

„ Main Switch Board *Engine-room*

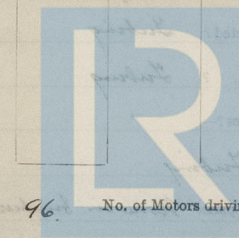
No. of Circuits to which Switches are provided on Main Switch Board *4 circuits*

## 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.
1. <i>Aft. Accom.</i>	<i>36</i>	<i>10</i>	<i>13</i>	<i>7/036</i>	<i>I. E. E.</i>	<i>98</i>	<i>600 meg.</i>
2. <i>Fwd. "</i>	<i>40</i>	<i>16</i>	<i>14.5</i>	<i>7/036</i>	<i>"</i>	<i>"</i>	<i>"</i>
3. <i>Engine &amp; R. rooms</i>	<i>20</i>	<i>16</i>	<i>7.5</i>	<i>7/036</i>	<i>"</i>	<i>"</i>	<i>"</i>
4. <i>Spare.</i>							

Total No. of Lights *96* No. of Motors driving Fans, &c. *None* No. of Heaters *None*

Current required for Motors and Heaters —



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

None.

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

Yes.

On Aux. " " each Auxillary 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. 7/064 S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

Tubing

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

Tubing

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

Tubing

(2) " " passing through Bunkers or Cargo Spaces

None in bunkers; holds tubing

(3) " " Deck Beams or Bulkheads

Lead brushes & W. T. glands.

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables

is unimpaired? Yes.

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

None

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?

15 Megs

Ohms.

Is the Installation supplied with a Voltmeter?

Yes

" " " an Ampere Meter?

Yes.

Date of Trial of complete Installation

25/3/26.

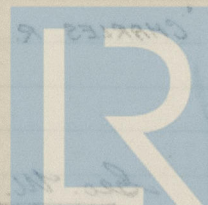
Duration of Trial

6 hours.

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

See page 38.

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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, except as below.*

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor.

*Vulcanised I.R. braided cable in steel tubings used in machinery spaces instead of lead-covered cable (See B.C. letter to Cloud Hamilton Ltd 18/12/24, B.C. letter to Napier & Miller Ltd 19/12/24, & plus dated 20/12/24 and 22/12/24 respectively) Sanctioned by 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.

*'CHARLES R. HUNTLEY'*

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

*Geo. W. Luke.*

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

Fees—

## MAIN BOILERS.

	£	s.	d.
H.S.	Sq. ft.	:	:
G.S.	"	:	:

## DONKEY BOILERS.

H.S.	Sq. ft.	:	:
G.S.	"	:	:
	£	:	:

## ENGINES.

L.P.C.	Cub. ft.	:	:
	£	:	:
Testing, &c. ...		:	:
	£	:	:
Expenses ...		:	:
Total ...	£	:	:

It is submitted that this Report be approved,

*J. F. ...*  
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the

*19th May 1920*

Fees advised

Fees paid



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Secretary.



## GENERAL OBSERVATIONS

THESE OBSERVATIONS ARE BASED ON THE INFORMATION FURNISHED BY THE MEMBERS OF THE COMMITTEE.

Approved by the Committee on the 12th of May 1944.

It is submitted that this Report be approved.

DOCKET NUMBER

It is submitted that this Report be approved.

used in making up the report.

with (see A.C. letter to Board of Directors dated 10/1/44).

A.C. letter to Board of Directors dated 10/1/44.

10/1/44 and 10/1/44.

Summary

Testing for

2

Japanese

Total

It is submitted that this Report be approved.

Approved by the Committee on the 12th of May 1944.

Approved by the Committee on the 12th of May 1944.

CHARLES R. HUNTLEY

Form revised

Not paid

Approved by the Committee on the 12th of May 1944.



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