

No. 2337

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2311 No. in Register Book 3404

" " S.S. STORA

Makers of Engines Smiths Dock & Co. Ltd.

Works No. 370.

Makers of Main Boilers Richardson & Westgarth & Co. Ltd.

Works No. 5909.

Makers of Donkey Boiler ✓

Works No. ✓

RETAIN
MACHINERY.

Lloyd's Register
Foundation

1/4 005239-005248-0147

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book *#*

Received at Head Office *19th March 1930*

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Trip~~ *Whaler* Screw *"Stora"*

Official No. *160672* Port of Registry *Teith.*

Registered Owners *The South Georgia Co. Ltd.*

Engines Built by *Clyde, Docks & Co. Ltd.*

at *South Bank-on-Glen.*

Main Boilers Built by *Richardson, Glasgow & Co. Ltd.*

at *Middlesbrough.*

Donkey " " *—*

at *—*

Date of Completion *9-29*

First Visit *20-6-29*

Last Visit *17-9-29*

Total Visits *36*

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RECIPROCATING ENGINES

Works No.

370

No. of Sets

1

Description

Triple expansion
P.C. Berks.

No. of Cylinders each Engine

3

No. of Cranks

3

Diars. of Cylinders

16" - 26" - 44"

Stroke

26"

Cubic feet in each L.P. Cylinder

23

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

yes.

"

each Receiver?

yes.

Type of H.P. Valves,

Piston
Piston

1st L.P. "

2nd L.P.,

L.P. "

Valve Gear

Slide
Stephenson Link
Surface.

Condenser

Cooling Surface

16⁷⁵ sq. ft.

Diameter of Piston Rods (plain part)

4¹/₂"

Screw part (bottom of thread)

3⁵/₃₂"

Material

Stub

Diar. of Connecting Rods (smallest part)

4¹/₄"

Material

I. Stub.

Crosshead Gudgeons

4³/₄"

Length of Bearing

11¹/₈"

Material

"

No. of Crosshead Bolts (each)

4

Diar. over Thrd.

2¹/₈"

Thuds. per inch

8

Material

Stub.

Crank Pin "

2

Diar. over Thrd.

2³/₈"

Thuds. per inch

6

Material

"

Main Bearing

8¹/₂"

Lengths

11³/₈"

Bolts in each

2

Diar. over Thread

2³/₈"

Threads per inch

6

Material

Stub.

Holding Down Bolts, each Engine

20

Diar.

1³/₈"

No. of Metal Chocks

20

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?

Connecting Rods, Forged by

Brown Bros.

Piston

"

"

Crossheads,

Connecting Rods, Finished by

Smiths Dock Co.

Piston

"

"

Crossheads,

Date of Harbour Trial

13-9-29.

Trial Trip

17-9-29.

Trials run at

In Lee Bay.

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

yes.

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

1575

Revs. per min.

180

Pressure in 1st L.P. Receiver,

68

lbs., 2nd L.P.,

-

lbs., L.P.,

11

lbs., Vacuum,

26.5

Speed on Trial

12.9 knots.

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

data:—

Builders' estimated I.H.P.

Revs. 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 A 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		Pitch of Teeth	
Estimated Pressure per lineal inch			
Diam. of 2nd Reduction Pinion	} Width	Pitch of Teeth	
" 2nd " Wheel		Pitch of Teeth	
Estimated Pressure per lineal inch			
Revs. per min. of H.P. Turbines at Full Power			S.H.P.
" " L.P. " "	If the Conditions on Trial were such that full power revs. were not obtained, state the following:-		
" " L.P. " "	Date: 16th May 1916		
" " 1st Reduction Shaft	Revs. per min. at 1st L.P. Horsepower		
" " 2nd " "	Estimated Speed		
" " Propeller Shaft	Estimated Speed		
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.

No. of Turbo-Generating Sets	Capacity of each
Type of Turbines employed	Description of Generators
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	
" 1st " Wheel	Pitch of Teeth
Estimated Pressure per lineal inch	
Diam. of 2nd Reduction Pinion	
" 2nd " Wheel	Pitch of Teeth
Estimated Pressure per lineal inch	
Revs. per min. of Generators at Full Power	
" " Motors	" 1st Reduction Shaft
" " 2nd " "	" 2nd " "
Revs. per min. of Propeller at Full Power	
Total Shaft Horse Power	
Date of Harbour Trial	
Trials at	
Speed on Trial	



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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.

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SHAFTING.

Are the Crank Shafts Built or Solid?

built.

No. of Lengths in each

1

Angle of Cranks

120°

Diar. by Rule

Actual

8 1/2"

In Way of Webs

8 3/8"

" of Crank Pins

8 3/4"

Length between Webs

12 3/8"

Greatest Width of Crank Webs

2'-0"

Thickness

5 1/4"

Least

13"

Diar. of Keys in Crank Webs

1 1/2"

Length

4"

" Dowels in Crank Pins

1"

Length

Screwed or Plain

plain.

No. of Bolts each Coupling

6

Diar. at Mid Length

2"

Diar. of Pitch Circle

12 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

3 1/16"

Type of Thrust Blocks

Household.

No. " Rings

6

Diar. of Thrust Shafts at bottom of Collars

8 1/2"

No. of Collars

6 1/2"

" " Forward Coupling

8 1/2"

At Aft Coupling

8 1/2"

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

8 3/8"

At Coupling

8 1/2"

Are Propeller Shafts fitted with Continuous Brass Liners?

yes.

Diar. over Liners

10"

Length of Aft Bearings

4'-0 1/2"

Of what Material are the Aft Bearings composed?

gunmetal.

Are Means provided for lubricating the Aft Bearings with Oil?

no

" " to prevent Sea Water entering the Stern Tubes?

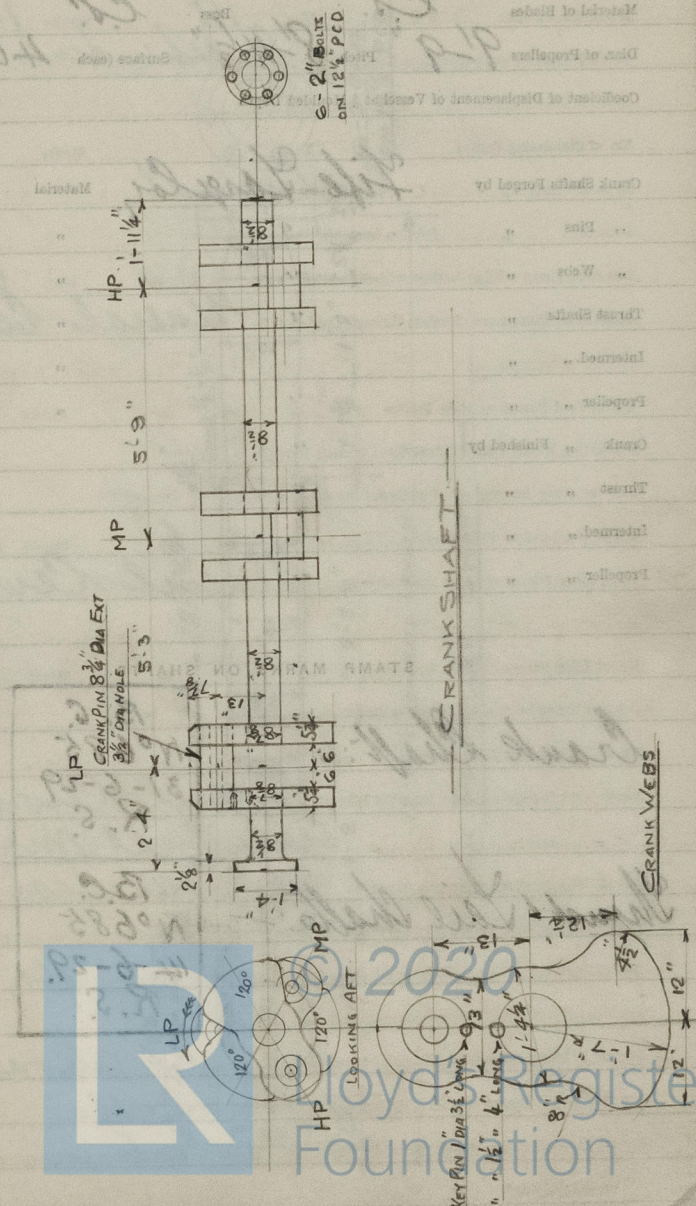
no.

If so, what Type is adopted?

open to sea.

STERN TUBE

SKETCH OF CRANK SHAFT.



No. of Blades each Propeller

Material of Blades

Diar. of Propellers

Propeller ⁴
Pitch

Pitch

Fitted or Solid ?

Boss

Surface (each)

40

S. ft.]

Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth

Crank Shafts Forged by

.. Pins ..

“ Webs ”

Thrust Shafts 21

Intermed., „ „

Propeller „ „

Crank „ Finished by

Thrust 22

Intermed.,,

Propeller „

Life Savers Co.

Material

LP

STAMP MARKS ON SHAFTS.

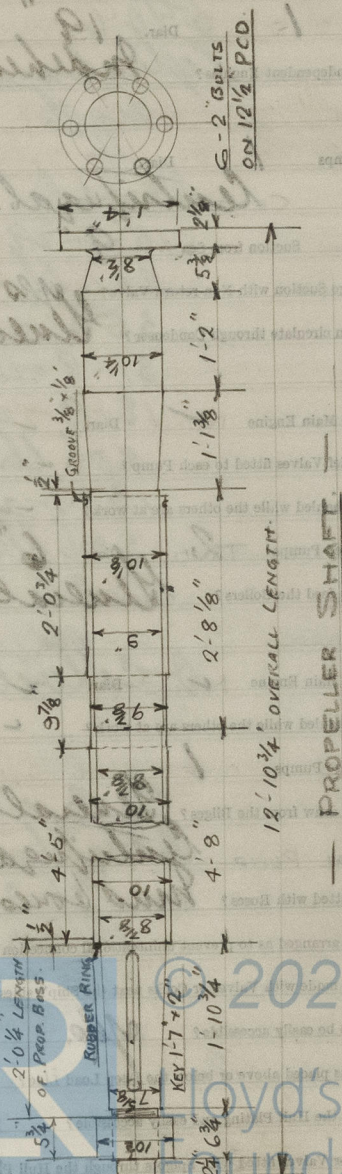
Crank Shaft:-

B. C.
N^o 685
31-6-29
R. S.

Thrust & Tail Chats:—

B.C.
N° 685
14-6-29.
R.S.

SKETCH OF PROPELLER SHAFT.



PUMPS, ETC.

No. of Air Pumps

1

Diar.

19" Stroke 15"

Worked by Main or Independent Engines?

Independent

No. of Circulating Pumps

1

Diar.

Stroke

Type of

"

Centrifugal

Diar. of

"

Suction from Sea

9"

Has each Pump a Bilge Suction with Non-return Valve?

Diar.

6"

What other Pumps can circulate through Condenser?

General Services

No. of Feed Pumps on Main Engine

✓

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

2

Diar.

Stroke

18"

What other Pumps can feed the Boilers?

General Services

No. of Bilge Pumps on Main Engine

✓

Diar.

✓

Stroke

-

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

No. of Independent Bilge Pumps

1

What other Pumps can draw from the Bilges?

General Services & Centrifugal pump. mud boxes, drain pipes.

CENTRIFUGAL PUMP

Are all Bilge Suctions fitted with Roses?

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

Boiler No.

Type

No. of Boilers

No. of Boilers in each

Type of Boilers

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

When Safety Valves set

Pressure at which Valves were set

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can Boilers be worked separately?

Makers of Boilers

Boiler No.

Type

No. of Boilers

Greatest Internal Dia. of Boilers

Length

Square Feet of Heating Surface

No. of Safety Valves on each Boiler

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

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BOILERS

Works No.

No. of Boilers

Single or Double-ended

No. of Furnaces in each

Type of Furnaces

Date when Plan approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

" when Safety Valves set

Pressure at which Valves were set

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Draught

Can Boilers be worked separately?

Makers of Plates

" Stay Bars

" Rivets

" Furnaces

Greatest Internal Diam. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

" " Grate " "

No. of Safety Valves each Boiler

Are the Safety Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

" Test Cocks

Rule Diam.

Actual

No. of Water Gauges

" Salinometer Cocks

5909.

Cylindrical multitubular
single.

4

Slighton

15-5-29

200 lbs.

350 "

31-8-29.

13-9-29.

206 lbs.

13-9-29.

206 lbs.

C.A.

D. Calville & Sons.

R. B. & Co. Ltd.
Slighton & Co.

12'-0"

12'-4 25/32"

3503 sq

85 sq

2

yes.

2

2

1

3"



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

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

Are these Pipes connected to Boilers by Cocks or Valves?

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

No. of Strakes of Shell Plating in each Boiler

Plates in each Strake

Thickness of Shell Plates Approved

" " in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Butt Straps Single or Double?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

" inside "

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diam. of Rivet Holes

Pitch

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

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes

Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

on pillars
direct.

valves.

1
3
1 1/2
1 1/2

steel.
butt.
double.

yes
1 5/32
1 9/32

machine.
treble.

5
10 3/8
3

1 1/2

2
hand.
3 7/8

2
machine.
3 7/8

16 1/2" x 13"
2-7 1/2" x 2'-6" x 27/32"



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Thickness of End Plates in Steam Space Approved

 $1\frac{7}{32}$ "

" " " " " in Boilers

 $1\frac{7}{32}$ "

Pitch of Steam Space Stays

20" x 16 $\frac{3}{4}$ "

Diar. " " " " Approved

3" Threads per Inch 6

" " " " " in Boilers

3" " 6

Material of " " "

stud.
double-nuts.

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

✓

" " Riveted " "

✓

Width " " Doubling Strips "

✓

Thickness of Middle Back End Plates Approved

✓

" " " " " in Boilers

✓

Thickness of Doublings in Wide Spaces between Fireboxes

 $13\frac{5}{8}$ " x $8\frac{3}{8}$ "

Pitch of Stays at

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

Diar. of Stays Approved

Threads per Inch 9

" " in Boilers

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

9

Material "

stud.

Are Stays fitted with Nuts outside?

ybs.

Thickness of Back End Plates at Bottom Approved

 $2\frac{7}{32}$ "

" " " " " in Boilers

 $2\frac{7}{32}$ "

Pitch of Stays at Wide Spaces between Fireboxes

 $13\frac{5}{8}$ " x $8\frac{3}{8}$ "

Thickness of Doublings in " "

 $\frac{3}{4}$ "

Thickness of Front End Plates at Bottom Approved

 $2\frac{7}{32}$ "

" " " " " in Boilers

 $2\frac{7}{32}$ "

No. of Longitudinal Stays in Spaces between Furnaces

1



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Diarr. of Stays Approved $2\frac{3}{4}"$ Threads per Inch 6
 " " in Boilers $2\frac{3}{4}"$ " 6
 Material " *stab.*

Thickness of Front Tube Plates Approved $27/32"$
 " " " in Boilers $27/32"$
 Pitch of Stay Tubes at Spaces between Stacks of Tubes $13\frac{5}{8}" \times 7\frac{3}{8}"$

Thickness of Doublings in " " "
 " Stay Tubes at " " "
 Are Stay Tubes fitted with Nuts at Front End *ylo.*

Thickness of Back Tube Plates Approved $3/4"$
 " " " in Boilers $3/4"$
 Pitch of Stay Tubes in Back Tube Plates $7\frac{1}{2}" \times 11\frac{1}{4}" \times 7\frac{3}{8}"$
 " Plain " $3\frac{3}{4}" \times 3\frac{1}{16}"$
 Thickness of Stay Tubes $7/16"$ $3/8"$ $5/16"$
 " Plain " $8\frac{1}{2}"$
 External Diarr. of Tubes $2\frac{1}{2}"$
 Material " *Iron.*

Thickness of Furnace Plates Approved $5/8"$
 " " " in Boilers $5/8"$
 Smallest outside Diarr. of Furnaces $3'-7\frac{3}{4}"$
 Length between Tube Plates $8'-7\frac{1}{4}"$

Width of Combustion Chambers (Front to Back) $2'-10\frac{7}{32}"$
 Thickness of " " Tops Approved $4/16"$
 " " " in Boilers $11/16"$
 Pitch of Screwed Stays in C.C. Tops $8" \times 9\frac{3}{4}"$



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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	
Thick. of Plates or Seams	
Internal Diar.	
Thickness	
How are Pipes secured?	
Date of Hydraulic Test	
Test Pressure	
No. of Pipes	
Material	
Thick. of Plates or Seams	
Internal Diar.	
Thickness	
How are Pipes secured?	
Date of Hydraulic Test	
Test Pressure	



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MAIN STEAM PIPES.

No. of Lengths	2	1	
Material	copper.	copper.	
Brazed, Welded or Seamless	S.D.	S.D.	
Internal Diar.	5"	5"	
Thickness	3 W.S.	3 W.S.	
How are Flanges secured?	braced.	braced.	
Date of Hydraulic Test	9-9-29	11-9-29	
Test Pressure	400 lbs.	400 lbs.	
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			

STEAM EVAPORATORS.

No.	1	
Type	Horizontal	
Material	Copper	
Working Pressure	100 lbs.	
Date of Test	9-9-29	
Test Pressure	400 lbs.	

FEED WATER FILTERS.

No.	1	
Type	Horizontal	
Material	Copper	
Working Pressure	100 lbs.	
Date of Test	9-9-29	
Test Pressure	400 lbs.	



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EVAPORATORS.

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

FEED WATER HEATERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Exhaust Steam Surface Heater.	Walden & Brook	200 lbs.	400 lbs.	

FEED WATER FILTERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1	Gravitation	Smith & Co. Ltd.			

LIST OF DONKEY PUMPS.

1. Independent-monotype air pump.
2. " " feed pump.
1. " " centrifugal pump.
1. General service pump (double).
1. Bilge pump (double).



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SPARE GEAR. LIST

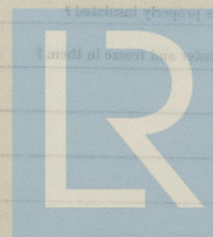
No. of Top End Bolts	8	No. of Bot. End Bolts	8	No. of Cylinder Cover Studs	1
" Coupling Bolts	6	" Main Bearing Bolts	2	" Valve Chest "	
" Junk Ring Bolts	6	" Feed Pump Valves	1 set.	" Bilge Pump Valves	1 set.
" H.P. Piston Rings	1	" I.P. Piston Rings		" L.P. Piston Rings	
" " Springs	1	" " Springs		" " Springs	
" Safety Valve "	1	" Fire Bars	1 set.	" Feed Check Valves	2
" 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	1	" Propellers	1	" Propeller Blades	
" Boiler Tubes	8	" Condenser Tubes	12	" Condenser Ferrules	30

OTHER ARTICLES OF SPARE GEAR:-

24 BOLTS & NUTS ASSORTED. 12 GAUGE GLASSES.
 2 DOZ DEWRANCES HEX PLUGS FOR " "
 6 COMP CHAMBER STAYS & NUTS. 4 DIAMOND BLOWER TUBES
 1 SET PUMP VALVES FOR GENERAL SERVICE PUMP.
 2 MANHOLE DOOR JOINTS. 12 DIAPHRAGMS FOR REDUCING VALVE
 1 SET METALLIC PACKING SEGMENTS FOR PISTON ROD & SLIDE ROD.
 1 SPARE ORDINARY GLAND FOR PISTON ROD
 1 " " " " VALVE "
 1 SET AIR DISTRIBUTING VALVES FOR FURNACE FRONTS
 1 SET MICA PLATES " " "
 1 WOODEN FIRE BAR PATTERN.
 2 SETS EBONITE RINGS FOR WICKS FEED PUMPS

SPARE GEAR FOR FAN ENG.

1 SET MAIN BEARINGS WITH BOLTS & NUTS.
 1 " CON. ROD TOP & BOTTOM END BUSHES WITH BOLTS & NUTS.
 1 ECCENTRIC SHAFT & STAP COMPLETE.
 1 PISTON ROD.
 1 SLIDE ROD.
 2 SETS OF PISTON RINGS.
 1 PISTON.



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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.
Machine Room				
Capacity	41			
Current circulating in Condenser				
Height of Suction Pipe				
Position of Evaporator				
Water Supply				
No. of Cranks to which Testers are attached				
Particulars of these Cranks				
Evaporation	12	30.62	3.7	
Condensation	17	24.2	2.4	
Engine Room	17	24.2	2.4	

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



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

Engine Room 5 Switches
 Aft Accommodation 4 "
 Midship " 3 "
 Navigation 6 "
 Forward 3 "

Are Out-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 Out-outs constructed of Non-inflammable Material?

yes.

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

yes.

Smallest Single Wire used, No. 1/044 S.W.G., Largest, No. 7/029 S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

Lead covered / Armoured.
 Lead covered.

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

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

Lead covered / Armoured.

(2) " " passing through Bunkers or Cargo Spaces

Lead bushes

(3) " " Deck Beams or Bulkheads

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? yes.

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? yes.

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?

4.5 Megohms.

Ohms.

Is the Installation supplied with a Voltmeter?

yes.

" " " an Ampere Meter

yes.

Date of Trial of complete Installation

17-9-29

Duration of Trial

6 hours.

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



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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? *ybs.*

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 *ybs.*

Is the Workmanship throughout thoroughly satisfactory? *ybs.*

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

as ascertained by ^{me} from personal examination

" STORA "

J. D. Stithenson

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	3503	Sq. ft.	:	:
G.S.	85	"	:	:
DONKEY BOILERS.				
H.S.	✓	Sq. ft.	:	:
G.S.	✓	"	:	:
		£	:	:
ENGINES.				
L.P.C.	23	Cub. ft.	:	:
		£	:	:
Testing, &c. ...			:	:
		£	:	:
Expenses ...			:	:
		£	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

W. H. King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 2nd April 1930.

Fees advised

Fees paid



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Secretary.

GENERAL CONSTRUCTION

To be

and has been the subject of a report in the Lloyd's Register of Shipping, 1930, Vol. 1, p. 10.

H.S. 3203
 D.S. 882

DONKEY BOILER

H.S. 3203

D.S. 882

ENGINE

L.V. 23

D.S. 882

Towing ...

D.S. 882

Expenses ...

Total ...

It is submitted that this Report be approved.

The above has been approved by the Committee for the Class of M.B.S. on the 2nd April 1930.

J. H. ...

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