

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 Richardsons Westgarth & Co. Ltd.

Works No. 5909.

Makers of Donkey Boiler ✓

Works No. ✓

**RETAIN**  
**LR**  
MACHINERY.

**REGISTERED**  
**2000**  
**LES**  
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14  
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No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. .... No. in Register Book <sup>#</sup>

Received at Head Office

19<sup>th</sup> March 1930

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

Official No. 160642 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, Langstaff & Co. Ltd.  
at Middlesbrough.

Donkey .. ..

Date of Completion

9-29

First Visit

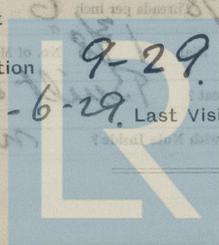
20-6-29

Last Visit

17-9-29

Total Visits

36



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## RECIPROCATING ENGINES

Works No. **370** No. of Sets **1** Description **Triple expansion  
S.P. 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**

1st I.P., **Piston**

2nd I.P., **Slide**

L.P., **Slide**

" Valve Gear **Stephenson Link**

" Condenser **Surface** Cooling Surface **16<sup>75</sup> sq. ft.**

Diameter of Piston Rods (plain part) **4<sup>1</sup>/<sub>2</sub>"** Screwed part (bottom of thread) **3<sup>5</sup>/<sub>32</sub>"**

Material **Stub**

Diar. of Connecting Rods (smallest part) **4<sup>1</sup>/<sub>4</sub>"** Material **I. Stub.**

" Crosshead Gudgeons **4<sup>3</sup>/<sub>4</sub>"** Length of Bearing **11<sup>1</sup>/<sub>8</sub>"** Material **"**

No. of Crosshead Bolts (each) **4** Diar. over Thrd. **2<sup>1</sup>/<sub>8</sub>"** Thuds. per inch **8** Material **Stub.**

" Crank Pin " **2** " **2<sup>3</sup>/<sub>8</sub>"** " **6** " **"**

" Main Bearing **8<sup>1</sup>/<sub>2</sub>"** Lengths **11<sup>3</sup>/<sub>8</sub>"**

" Bolts in each **2** Diar. over Thread **2<sup>7</sup>/<sub>8</sub>"** Threads per inch **6** Material **Stub.**

" Holding Down Bolts, each Engine **20** Diar. **1<sup>3</sup>/<sub>8</sub>"** 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 Las 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 I.P. Receiver, **68** lbs., 2nd I.P.,**11** lbs., L.P., **11** lbs., Vacuum **26.5** ins.

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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## TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion	}	Width	Pitch of Teeth
" 1st " Wheel			

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion	}	Width	Pitch of Teeth
" 2nd " Wheel			

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

"	"	Motors	"
"	"	1st Reduction Shaft	
"	"	2nd "	
"	"	Propellers at Full Power	

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial      Knots.    Propeller Revols. per min.      S.I.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.



SHAFTING.

Are the Crank Shafts Built or Solid? *built.*

No. of Lengths in each *1*

Angle of Cranks *120°*

Diar. by Rule *8 7/8"* In Way of Webs

Actual *8 3/4"*

" of Crank Pins *8 3/4"* Length between Webs *12"*

Greatest Width of Crank Webs *2'-0"* Thickness *5 1/4"*

Least " " *13"* " *5 1/4"*

Diar. of Keys in Crank Webs *1 1/2"* Length *4"*

" Dowels in Crank Pins *1"* Length *3 1/2"* 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 *Washers.*

No. " Rings *6*

Diar. of Thrust Shafts at bottom of Collars *8 1/2"* No. of Collars *6*

" " 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 *8 7/8"* Actual 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 After Bearings composed? *gunmetal.*

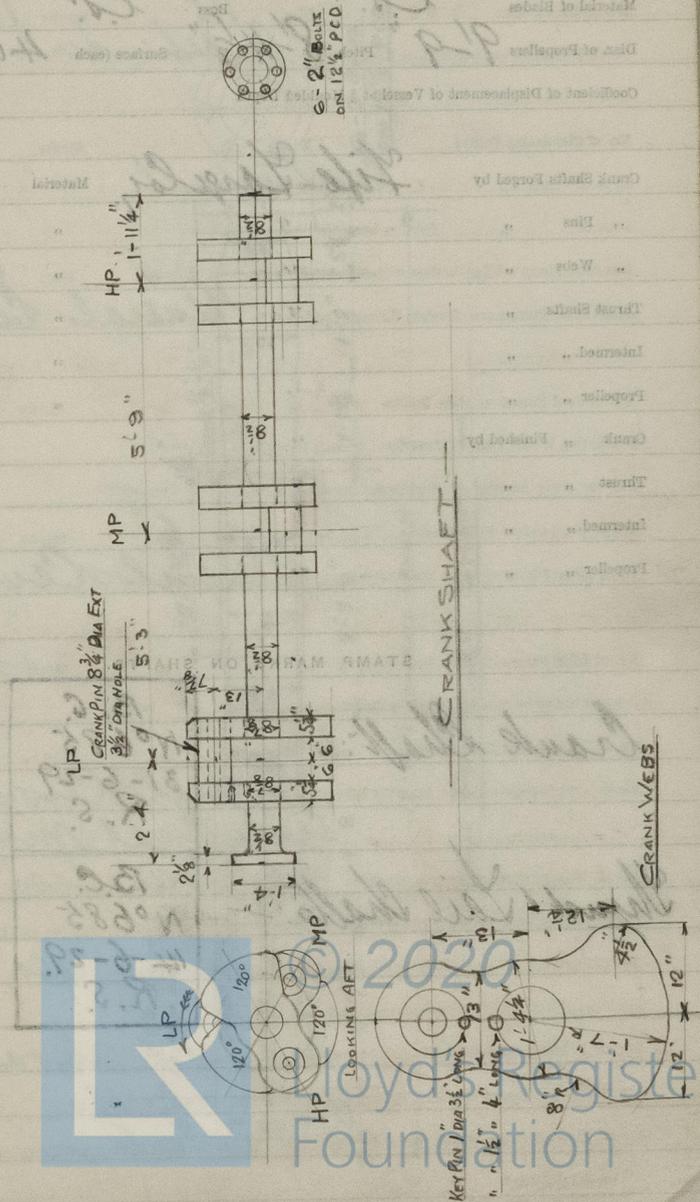
Are Means provided for lubricating the After Bearings with Oil? *no*

" " to prevent Sea Water entering the Stern Tubes? *no.*

If so, what Type is adopted? *open to sea.*

STERN TUBE

SKETCH OF CRANK SHAFT.



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No. of Blades each Propeller

4  
C.S.

Fitted or Solid?

solid.

Material of Blades

C.S.

Boss

C.S.

Diam. of Propellers

9'-9"

Pitch

8'-4 1/2"

Surface (each

40

S. ft.)

Coefficient of Displacement of Vessel at 3/4 Moulded Depth

Crank Shafts Forged by

Yife Large Coy.

Material

I.P.

„ Pins „

„ Webs „

Thrust Shafts „

Intermed. „

Propeller „

Crank „ Finished by

Thrust „

Intermed. „

Propeller „

STAMP MARKS ON SHAFTS.

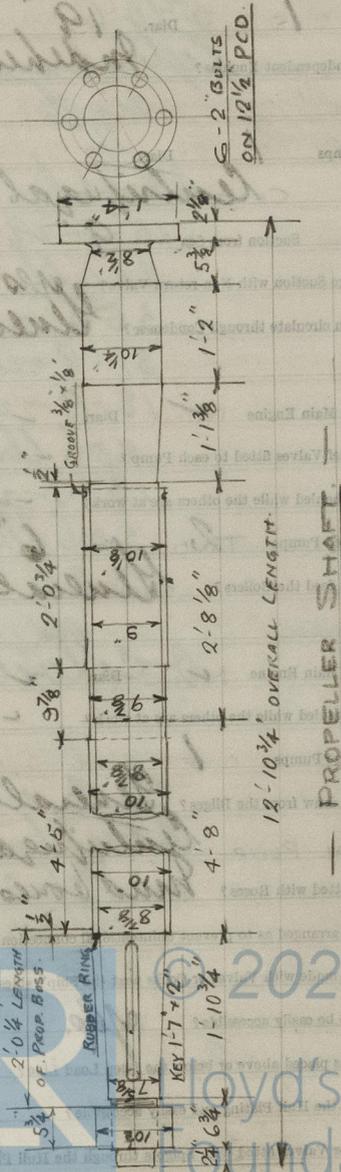
Crank Shaft:-

B. C.  
N°685  
31-6-29  
R. S.

Thrust & Tail Shafts:-

B. C.  
N°685  
14-6-29.  
R. S.

SKETCH OF PROPELLER SHAFT.



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## BOILERS

Works No. 5909.

No. of Boilers 1 Type Cylindrical multitubular  
single.

Single or Double-ended

No. of Furnaces in each 4

Type of Furnaces Slighton

Date when Plan approved 15-5-29

Approved Working Pressure 200 lbs.

Hydraulic Test Pressure 350

Date of Hydraulic Test 31-8-29.

" when Safety Valves set 13-9-29.

Pressure at which Valves were set 206 lbs.

Date of Accumulation Test 13-9-29.

Maximum Pressure under Accumulation Test 206 lbs.

System of Draught C.A.

Can Boilers be worked separately?

Makers of Plates D. Calville Row.

" Stay Bars R. B. & Co. Ld.

" Rivets Slighton & Co.

" Furnaces

Greatest Internal Diam. of Boilers 17'-0"

" " Length " 12'-4 25/32"

Square Feet of Heating Surface each Boiler 3503 sq ft  
85 sq ft

" " Grate " "

No. of Safety Valves each Boiler 2 Rule Diam. Actual 3"

Are the Safety Valves fitted with Easing Gear? Yes.

No. of Pressure Gauges, each Boiler 2 No. of Water Gauges 2

" Test Cocks " " " Salinometer Cocks 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?

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

✓ valves.

No. of Strakes of Shell Plating in each Boiler

1

Plates in each Strake

3

Thickness of Shell Plates Approved

1 1/2"

in Boilers

1 1/2"

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

1 5/32"

inside

1 9/32"

Are Longitudinal Seams Hand or Machine Riveted?

machine.

Are they Single, Double, or Treble Riveted?

treble.

No. of Rivets in a Pitch

5

Diam. of Rivet Holes

1 1/2"

Pitch

10 3/8"

No. of Rows of Rivets in Centre Circumferential Seams

3

Are these Seams Hand or Machine Riveted?

✓

Diam. of Rivet Holes

-

Pitch

-

No. of Rows of Rivets in Front End Circumferential Seams

2

Are these Seams Hand or Machine riveted?

hand.

Diam. of Rivet Holes

1 13/32"

Pitch

3 7/8"

No. of Rows of Rivets in Back End Circumferential Seams

2

Are these Seams Hand or Machine Riveted?

machine.

Diam. of Rivet Holes

1 13/32"

Pitch

3 7/8"

Size of Manholes in Shell

16 1/2" x 13"

Dimensions of Compensating Rings

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



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Thickness of End Plates in Steam Space Approved

$1\frac{1}{32}$ " *in filler direct*

" " " " " in Boilers

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

Pitch of Steam Space Stays

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

Diar. " " " " Approved

3" Threads per Inch 6

" " " " " in Boilers

3" " 6

Material of " " "

*stab. 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

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

Pitch of Stays at

$2" + 1\frac{1}{4}"$

Diar. of Stays Approved

Threads per Inch 9

" " in Boilers

$2" + 1\frac{3}{4}"$  9

Material "

*stab.*

Are Stays fitted with Nuts outside?

*yls.*

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

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

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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Diar. 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 *yes.*

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 "  $8$  *W.P.*  
 External Diar. of Tubes  $2\frac{1}{2}$ "  
 Material ,, *Iron.*

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

Width of Combustion Chambers (Front to Back)  $2' - 10\frac{17}{32}"$   
 Thickness of " " Tops Approved  $4/16"$   
 " " " in Boilers  $11/16"$   
 Pitch of Screwed Stays in C.C. Tops  $8" \times 9\frac{1}{4}"$

*Handwritten notes and bleed-through from the reverse side of the page, including various measurements and technical terms.*



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Diar. of Screwed Stays Approved

1 3/4" Threads per Inch 9

" " " in Boilers

1 3/4" stub.

Material " "

Thickness of Combustion Chamber Sides Approved

1/16" 1/16"

" " " in Boilers

Pitch of Screwed Stays in C.C. Sides

8" x 9 3/4"

Diar. " " Approved

1 3/4" Threads per Inch 9

" " " in Boilers

1 3/4" stub.

Material " "

Thickness of Combustion Chamber Backs Approved

5/8" 5/8"

" " " in Boilers

Pitch of Screwed Stays in C.C. Backs

8 3/8" x 7 1/2"

Diar. " " Approved

2 1/4" 1 5/8" Threads per Inch 9

" " " in Boilers

2 1/4" 1 5/8" stub.

Material " "

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

Y/8 7/8"

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

4

" " " Centre "

2

Depth and Thickness of Girders

9 1/4" x 1 3/4" stub.

Material of Girders

3

No. of Stays in each

No. of Tubes, each Boiler

510 16" x 12"

Size of Lower Manholes

Type	No. of Boilers
Greatest Int. Diam.	
Height of Boiler Crown above Fire Grate	
Internal Radius of Dished Crown	
Thickness of Plates	
Thickness of Stays in Boiler Crown	
Plan of Lower Tubes	
Height of Firebox Crown above Fire Grate	
Are Firebox Crown Flat or Dished?	
External Radius of Dished Crown	
No. of Crown Stays	
Internal Diam. of Firebox at Top	
Thickness	
Plan of Water Tubes	
Material of Water Tubes	
Size of Manhole in Shell	
Thickness of Combustion Chamber	
Material of Combustion Chamber	

Thickness of Superheaters	
Plan of Superheaters	
Material of Superheaters	
No. of Superheaters in each Superheater	
Plan of Superheaters	



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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 Boilers  
 Material  
 Height, Width or Diameter  
 Internal Diar.  
 Thickness  
 How are Flanges secured?  
 Date of Hydraulic Test  
 Test Pressure  
 No. of Boilers  
 Material  
 Height, Width or Diameter  
 Internal Diar.  
 Thickness  
 How are Flanges 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 Diam.	5"	5"		
Thickness	3 W.Y.	3 W.Y.		
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 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				

## SEAMLESS WATER HEATERS

No.	1			
Type	Horizontal			
Material	Steel			
Working Pressure	400 lbs.			
Date of Test	9-9-29			
Test Pressure	400 lbs.			
No.	1			
Type	Horizontal			
Material	Steel			
Working Pressure	400 lbs.			
Date of Test	11-9-29			
Test Pressure	400 lbs.			

## FEED WATER FILTERS

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

## FEED WATER FILTERS.

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

## LIST OF DONKEY PUMPS.

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



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## SPARE GEAR.

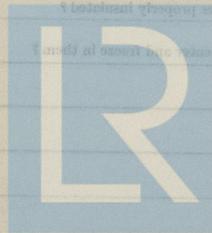
No. of Top End Bolts	No. of Bot. End Bolts	No. of Cylinder Cover Studs
2	2	
" Coupling Bolts 6	" Main Bearing Bolts 2	" Valve Chest "
" Junk Ring Bolts 6	" Feed Pump Valves 1 set.	" Bilge Pump Valves 1 set.
" H.P. Piston Rings 1	" I.P. Piston Rings	" L.P. Piston Rings
" " Springs 1	" " Springs	" " Springs
" Safety Valve " 1	" Fire Bars 2 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 VALVES  
 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 VICKS FEED PUMPS

## SPARE GEAR FOR FAN ENG.

1 SET MAIN BEARINGS WITH BOLTS & NUTS  
 1 " CON. ROD TOP & BOTT 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

Cranks in Progress  
 Crankshaft  
 Crank Pin  
 Crankshaft  
 Crank Pin  
 Crankshaft  
 Crank Pin

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.
Makers of Machinery				
Capacity 41				
Current circulating in Condenser				
Height of Sounding Water				
Position of Dryness				
Rate of Circulation				
No. of Cranks to which Testers are applied				
Particulars of these Cranks—				
Cranks				
Refrigeration 12				
Accumulation 17				
Engine Room 17				

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



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## REFRIGERATORS

MAY 10 1908

No. of Motors  
 No. of Motors  
 Description

No. of Motors  
 Description

## ELECTRIC LIGHTING

Installation Fitted by

R. Pickensgil Sons.

No. and Description of Dynamos

1 compound wound

Makers of Dynamos

Sunderland Forge &amp; Co. Ltd.

Capacity

41 Amperes, at 110 Volts, 350 Revols. per Min.

Current Alternating or Continuous

Continuous

Single or Double Wire System

double

Position of Dynamos

Engine Room Haldon, St. Albans.

Main Switch Board

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

4

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
Navigation	12	380 watz	3.8	1/22	110 Volt	12	5.387 Ohms
Accommodation	17	240	2.4	"	110 "	12	" "
Engine Room	17	240	2.4	"	110 "	12	" "
App. Accom.	6	180	1.8	3/20	110 "	8	8.1800 "

Total No. of Lights

52

No. of Motors driving Fans, &amp;c.

No. of Heaters

Current required for Motors and Heaters

✓

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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.

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

Lead covered.

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? *Yls.*

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 *Yls.*

Is the Workmanship throughout thoroughly satisfactory? *Yls.*

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

"STORA"

as ascertained by me from personal examination

*J. D. Stelthenson*

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 2<sup>nd</sup> April 1930.

Fees advised

Fees paid



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*W. H. King*

Secretary.

GENERAL CONSTRUCTION

U.S.	3203		
D.S.	88		
DONKEY BOILER			
U.S.			
D.S.			
ENGINE			
U.S.	23		
D.S.			
TOTAL			

It is submitted that this Report be approved.

*[Handwritten signature]*

U.S. Surveyor

Approved by the Committee for the Class of M.B.S. on the 3rd of April 1930

"STORA"

Loss paid

Loss advised

*[Large handwritten signature]*



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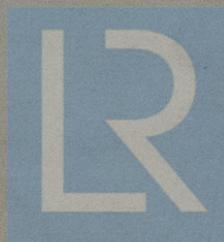
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