

No. 2140

17 APR 1926

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1938

No. in Register Book 3261

S.S.

"JOHN. S. PILLSBURY"

Makers of Engines

EARLES S+E. CO. LTD.

Works No.

668.

Makers of Main Boilers

EARLES S+E. CO. LTD.

Works No.

668.

Makers of Donkey Boiler

Works No.



MACHINERY

Lloyd's Register
Foundation

004906-004917-0057

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1938 No. in Register Book 3261

Received at Head Office 14th April 1926

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ ~~Steam Quadruple~~ Screw STEAMER
"JOHN S. PILLSBURY."

Official No. 149071 Port of Registry Hull.

Registered Owners Eastern Steamship Co. Ltd.

of Ontario, Canada.

Engines Built by Earle S. & E. Co. Ltd.

at Hull.

Main Boilers Built by Earle S. & E. Co. Ltd.

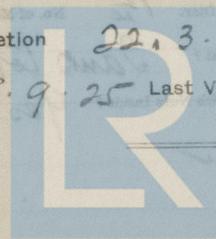
at Hull.

Donkey " "

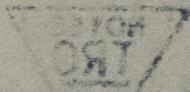
at

Date of Completion 22.3.26

First Visit 28.9.25 Last Visit 22.3.26 Total Visits 60.



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RECIPROCATING ENGINES.

Works No. **068** No. of Sets **1** Description **Triple expansion.**
Surface condensing.

No. of Cylinders each Engine **3** No. of Cranks **3**
 Diars of Cylinders **17" 28" 46"** Stroke **33"**
 Cubic feet in each L.P. Cylinder **31.7**
 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. " **Slide Valve D type**
 " 2nd I.P. " **Slide Valve D type.**
 " L.P. " **Slide Valve D type.**
 " Valve Gear **Stephenson's link motion**
 " Condenser **Surface** Cooling Surface **950** sq. ft.
 Diameter of Piston Rods (plain part) **4 7/8"** Screwed part (bottom of thread) **3 1/2"**
 Material " **Ingot steel**
 Diar. of Connecting Rods (smallest part) **4 1/2"** Material **Steel**
 " Crosshead Gudgeons **5 1/2"** Length of Bearing **7 1/2"** Material "
 No. of Crosshead Bolts (each) **2** Diar. over Thrd. **2 7/8** Thrds. per inch **6** Material "
 " Crank Pin " " **2** " **2 7/8** " **6** " "
 " Main Bearings **6** Lengths **9 1/2"**
 " Bolts in each **2** Diar. over Thread **2 1/4** Threads per inch **6** Material **Steel**
 " Holding Down Bolts, each Engine **56** Diar. **1 1/2** No. of Metal Chocks **56**
 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

Langley Forge Co Ltd.

Piston " "

Crossheads (min)

Nottingham J & S Co
Earle S & Co Ltd.

Connecting Rods, Finished by

Piston " "

Crossheads, " "

Date of Harbour Trial **5. 3. 26**" Trial Trip **15. 3. 26.**

Trials run at

Ruis Stumber.

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

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. **900**Revs. per min. **85**

Estimated Speed

9 1/2 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

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

Estimated Pressure per lineal inch

Diar. 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 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 *2* Angle of Cranks *120°*

Diar. by Rule Actual *9 1/4"* In Way of Webs *9 1/2"*

„ of Crank Pins *9 1/4"* Length between Webs *10"*

Greatest Width of Crank Webs *18"* Thickness *6"*

Least „ „ *18"* „ „ *6"*

Diar. of ~~Web~~ in Crank Webs *Dowels 13 1/8"* Length *4 1/2"*

„ Dowels in Crank Pins *13 1/8"* 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 1/2"*

Greatest Distance from Edge of Main Bearing to Crank Web *1 1/4"*

Type of Thrust Blocks

Horse shoe.

No. „ Rings

4

Diar. of Thrust Shafts at bottom of Collars

9 1/4"

No. of Collars

4

„ „ „

Forward Coupling

9 1/4"

At Aft Coupling

9 1/4"

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

10 3/4"

At Couplings

9 1/4"

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes.

Diar. over Liners

11 3/4" & 12"

Length of After Bearings

3' 7"

Of what Material are the After Bearings composed?

Brass & lignum vitae

Are Means provided for Lubricating the After Bearings with Oil?

Yes.

„ „ „

to prevent Sea Water entering the Stern Tubes?

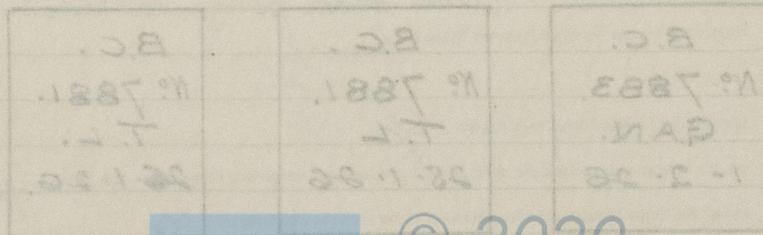
No

If so, what Type is adopted?

Grease pump.

SKETCH OF CRANK SHAFT.

*See George L. Norman
Boats 2139.*



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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 $\frac{3}{4}$ Moulded Depth

Crank Shafts Forged by *Langley Forge Co Ltd* Material *1. S.*
 " Pins " " " "
 " Webs " *Bednigham Iron & S. L.* " "
 Thrust Shafts " *Langley Forge Co Ltd* " "
 Intermed. " " " "
 Propeller " " *Langley Forge Co Ltd* " *1. S.*
 Crank " Finished by *Earles & Co Ltd* "
 Thrust " " " "
 Intermed. " " " "
 Propeller " " *Earles & Co Ltd*

STAMP MARKS ON SHAFTS.

Crank Shaft.

Thrust Shaft.

Tail Shaft.

B.C.
Nº 7883.
G.A.N.
1-2-26.

B.C.
Nº 7881.
T.L.
25.1.26

B.C.
Nº 7881.
T.L.
25.1.26.

SKETCH OF PROPELLER SHAFT.

George L. Jordan
Book 2139.
 See



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PUMPS, E.T.C.

No. of Air Pumps 1 Diar. 15" Stroke 20"

Worked by Main or Independent Engines? H.P. Main engine

No. of Circulating Pumps 1 Diar. 9" Stroke 20"

Type of " Reciprocating driven by HP engine.

Diar. of " Suction from Sea 6 1/2"

Has each Pump a Bilge Suction with Non-return Valve? Yes Diar. 2 1/2"

What other Pumps can circulate through Condenser? Ballast pump +
Aux. Circulating pump.

No. of Feed Pumps on Main Engine 2 Diar. 2 3/4" Stroke 20"

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 1 Diar. 6 x 8 1/2" Stroke 18"

What other Pumps can feed the Boilers? General service injector.

No. of Bilge Pumps on Main Engine 2 Diar. 2 3/4" Stroke 20"

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

No. of Independent Bilge Pumps 2 Turb. Circ. pump, Ballast

What other Pumps can draw from the Bilges? pumps

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.

BOILERS

B.C. 7-11-26
 No. 2807
 320 B.
 W.P. 150 B.
 GAN
 10-2-26

Handwritten notes and stamps are visible on the right page, including a large 'R' logo and the text '© 2020 Lloyd's Register Foundation'.



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BOILERS.

Works No. **668.**

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

Single or Double-ended **Single ended**

No. of Furnaces in each **2**

Type of Furnaces **Deighton Patent.**

Date when Plan approved **6. 10. 25.**

Approved Working Pressure **180 lbs.**

Hydraulic Test Pressure **320 "**

Date of Hydraulic Test **10. 2. 26.**

„ when Safety Valves set **5. 3. 26**

Pressure at which Valves were set **180 + 5 lbs.**

Date of Accumulation Test **5. 3. 26.**

Maximum Pressure under Accumulation Test **189 lbs.**

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 Rule Diam. Actual

Are the Safety Valves fitted with Raising Gear?

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

„ Test Cocks „ Salinometer Cocks

*Same as George L. Jordan
Boots 2129.*

B.C. TEST.
No 2807.
320 lbs.
W.P. 180 lbs.
G.A.N.
10-2-26.

MARK STAMPED ON.
PORT + STAR^{BD}. MAIN
BOILERS.



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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

Diar. of Rivet Holes

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Size of Manholes in Shell

Dimensions of Compensating Rings

See Lloyd's Register Book 2129

B.C. Test
No. 2807
320 lbs
W.R. 180 lbs
G.A.N.
10-2-20

Thickness of End Plates in Steam Space Approved
in Boilers
Pitch of Steam Space Straps
Diar. of Holes Approved
in Boilers
Material of
How are Seams Bound?
Diar. and Thickness of Loose Washers on End Plates
Riveted
Width of Doubling Straps
Thickness of Middle Back End Plates Approved
in Boilers
Thickness of Doublings in Wide Spaces between Trusses
Pitch of Straps at
Diar. of Holes Approved
in Boilers
Material
Are Straps Riveted with their ends?
Thickness of Back End Plates at Bottom Approved
in Boilers
Pitch of Straps at Wide Spaces between Trusses
Thickness of Doublings
Thickness of Front End Plates at Bottom Approved
in Boilers
No. of Longitudinal Seams in Spaces between Trusses



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " " Approved Threads per Inch

" " " " " in Boilers

Material of " " "

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

Pitch of Stays at " " " "

Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

See George L. Jordan

Threads per Inch

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of Front End Plates Approved

" " " " " in Boilers

Pitch of Stay Tube between Spaces of Tubes

Thickness of Doublings in

Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End?

Thickness of Middle Back End Plates Approved

" " " " " in Boilers

Pitch of Stay Tube in Back End Plates

Thickness of Stay Tubes

Plain

Recessed Diam. of Tubes

Material

Thickness of End Plates Approved

" " " " " in Boilers

Smallest outside diam. of Tubes

Length between

Width of Connection Channels (Stays in Boilers)



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Diar. of Stays Approved Threads per Inch

“ “ in Boilers

Material “

Thickness of Front Tube Plates Approved

“ “ “ “ in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in “ “ “

“ Stay Tubes at “ “ “

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved

“ “ “ in Boilers

Pitch of Stay Tubes in Back Tube Plates

“ Plain “

Thickness of Stay Tubes

“ Plain “

External Diar. of Tubes

Material “

Thickness of Furnace Plates Approved

“ “ “ in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of “ “ Tops Approved

“ “ “ in Boilers

Pitch of Screwed Stays in C.O. Tops

*See George L. Jorian
Boat. 2129*

Diar. of Stays Approved Threads per Inch

“ “ in Boilers

Material “

Thickness of Front Tube Plates Approved

“ “ “ “ in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in “ “ “

“ Stay Tubes at “ “ “

Are Stay Tubes fitted with Nuts at Front End ?

Thickness of Back Tube Plates Approved

“ “ “ in Boilers

Pitch of Stay Tubes in Back Tube Plates

“ Plain “

Thickness of Stay Tubes

Material “

External Diar. of Tubes

Material “

Thickness of Combustion Chamber Plates Approved

“ “ “ in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of “ “ Tops Approved

“ “ “ in Boilers

Pitch of Screwed Stays in C.O. Tops

*George L. Jorian
Boat. 2129*



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Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

See George L. Jordan Book 2139

VERTICAL DONKEY BOILERS

No. of Boilers Type
Greatest Int. Diam
Height of Boiler Crown above Fire Grate
The Boiler Crown Flat or Dished
Internal Radius of Dished Boilers
Description of Stays in Boiler Crown
Pitch of Holes
Height of Header Crown above Fire Grate
The Header Crown Flat or Dished
Internal Radius of Dished Crown
No. of Lower Stays
External Diam. of Header at Top
No. of Water Tubes
Material of Water Tubes
No. of Manholes in Shell
Thickness of Combustion Chamber
Lower Manholes

SUPERHEATERS

Description of Superheaters
When situated
Which boiler and crown they heat
No. of Superheaters in boiler and crown heating
No. of Safety Valves on each Superheater
Date when
Date when



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 2

Material Steel

Internal, Width or Diameter 24 inches

Internal Diam. 24"

Thickness 1/2"

How are Flanges secured? Expansion into furnace

Date of Hydraulic Test 1-3-02

Test Pressure 240 lb

No. of Pipes 1

Material Iron

Internal, Width or Diameter 3 inches

Internal Diam. 3"

Thickness 1/2"

How are Flanges secured? Expansion into furnace

Date of Hydraulic Test 2-3-02

Test Pressure 240 lb



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VI MAIN STEAM PIPES.

No. of Lengths	2		
Material	Steel		
Brazed, Welded or Seamless	Seamless		
Internal Diar.	4"		
Thickness	$\frac{1}{4}$ "		
How are Flanges secured?	Expanded into grooves.		
Date of Hydraulic Test	1-3-26		
Test Pressure	540 lbs.		
No. of Lengths	1		
Material	Iron		
Brazed, Welded or Seamless	Welded		
Internal Diar.	3"		
Thickness	$\frac{1}{4}$ "		
How are Flanges secured?	Expanded into grooves.		
Date of Hydraulic Test	2-3-26		
Test Pressure	540 lbs.		
No. of Lengths			
Material			
Brazed, Welded or Seamless			
Internal Diar.			
Thickness			
How are Flanges secured?			
Date of Hydraulic Test			
Test Pressure			

FORM EVAPORATORS

No.	TYPE	Working Pressure	Date of Test of Safety Valves under steam

FEED WATER HEATERS

No.	TYPE	Working Pressure	Date of Test
1	Surface	11-1-26	11-1-26
2	Horizontal	11-1-26	11-1-26
3	Horizontal	11-1-26	11-1-26
4	Horizontal	11-1-26	11-1-26
5	Horizontal	11-1-26	11-1-26
6	Horizontal	11-1-26	11-1-26
7	Horizontal	11-1-26	11-1-26
8	Horizontal	11-1-26	11-1-26
9	Horizontal	11-1-26	11-1-26
10	Horizontal	11-1-26	11-1-26
11	Horizontal	11-1-26	11-1-26
12	Horizontal	11-1-26	11-1-26
13	Horizontal	11-1-26	11-1-26
14	Horizontal	11-1-26	11-1-26
15	Horizontal	11-1-26	11-1-26
16	Horizontal	11-1-26	11-1-26
17	Horizontal	11-1-26	11-1-26
18	Horizontal	11-1-26	11-1-26
19	Horizontal	11-1-26	11-1-26
20	Horizontal	11-1-26	11-1-26
21	Horizontal	11-1-26	11-1-26
22	Horizontal	11-1-26	11-1-26
23	Horizontal	11-1-26	11-1-26
24	Horizontal	11-1-26	11-1-26
25	Horizontal	11-1-26	11-1-26
26	Horizontal	11-1-26	11-1-26
27	Horizontal	11-1-26	11-1-26
28	Horizontal	11-1-26	11-1-26
29	Horizontal	11-1-26	11-1-26
30	Horizontal	11-1-26	11-1-26

FEED WATER FILTERS

No.	TYPE	Working Pressure	Date of Test
1	Horizontal	11-1-26	11-1-26
2	Horizontal	11-1-26	11-1-26
3	Horizontal	11-1-26	11-1-26
4	Horizontal	11-1-26	11-1-26
5	Horizontal	11-1-26	11-1-26
6	Horizontal	11-1-26	11-1-26
7	Horizontal	11-1-26	11-1-26
8	Horizontal	11-1-26	11-1-26
9	Horizontal	11-1-26	11-1-26
10	Horizontal	11-1-26	11-1-26
11	Horizontal	11-1-26	11-1-26
12	Horizontal	11-1-26	11-1-26
13	Horizontal	11-1-26	11-1-26
14	Horizontal	11-1-26	11-1-26
15	Horizontal	11-1-26	11-1-26
16	Horizontal	11-1-26	11-1-26
17	Horizontal	11-1-26	11-1-26
18	Horizontal	11-1-26	11-1-26
19	Horizontal	11-1-26	11-1-26
20	Horizontal	11-1-26	11-1-26
21	Horizontal	11-1-26	11-1-26
22	Horizontal	11-1-26	11-1-26
23	Horizontal	11-1-26	11-1-26
24	Horizontal	11-1-26	11-1-26
25	Horizontal	11-1-26	11-1-26
26	Horizontal	11-1-26	11-1-26
27	Horizontal	11-1-26	11-1-26
28	Horizontal	11-1-26	11-1-26
29	Horizontal	11-1-26	11-1-26
30	Horizontal	11-1-26	11-1-26



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EVAPORATORS.

No. *2* Type *SI* Tons per Day
 Makers
 Working Pressure Test Pressure Date of Test
 Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No. *1* Type *Surface 24"*
 Makers *Henry Watson & Son Newcastle.*
 Working Pressure *Exhaust.* Test Pressure *Coils 432 lb* Date of Test *18.1.26*
Steam from *Shut 150 lb* *13.1.26*
LP exp. *MC. 3272 (N)*
+ 15.3.26.

FEED WATER FILTERS.

No. *1* Type *Suction 1180"* Size *2 1/4"*
 Makers *Henry Watson & Son Newcastle.*
 Working Pressure Test Pressure Date of Test *15.3.26.*

LIST OF DONKEY PUMPS

See George L. Jordan Book, 2129



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LIST OF SPARE GEAR.

No. of Top End Bolts.	No. of Bot. End Bolts.	No. of Cylinder Cover Studs
„ Coupling Bolts	„ Main Bearing Bolts	„ Valve Chest „
„ Junk Ring Bolts	„ Feed Pump Valves	„ Bilge Pump Valves
„ H.P. Piston Rings	„ L.P. Piston Rings	„ L.P. Piston Rings
„ „ Springs	„ „ Springs	„ „ Springs
„ Safety Valve „	„ Fire Bars	„ Feed Check Valves
„ Piston Rods	„ Connecting Rods	„ Valve Spindles
„ Air Pump Rods	„ Air Pump Buckets	„ Air Pump Valves
„ Cir. „	„ Cir. „	„ Cir. „
„ Crank Shafts	„ Crank Pin Bushes	„ Crosshead Bushes.
„ Propeller Shafts	„ Propeller	„ Propeller Blades
„ Boiler Tubes	„ Condenser Tubes	„ Condenser Ferrules

OTHER ARTICLES OF SPARE GEAR:—

See George L. Jordan Book 2139

REFRIGERATORS



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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.
1. Eng. Room	23	23		
2. op. Cas.	21	21		
3. Cargo hold	21	21		
4. Stow. Cas.	21	21		
etc.				

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



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Installation Fitted by *Earles S. & E. Co. Ltd.*
 No. and Description of Dynamos *1 Compound wound. 4.15 W.*
 Makers of Dynamos *Claske Chapman & Co. Ltd.*
 Capacity .. *36.5* Amperes, at *110* Volts, *400* Revols. per Min.
 Current Alternating or Continuous *Continuous.*
 Single or Double Wire System *Double wire*
 Position of Dynamos *Starb side 2nd platform.*
 „ Main Switch Board *Ship's side near dynamo.*
 No. of Circuits to which Switches are provided on Main Switch Board *4.*

Particulars of these Circuits:—

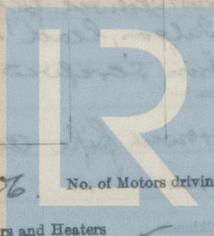
Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>1. Eng. Room</i>	<i>23</i>	<i>16</i>	<i>6.25</i>	<i>3/029</i>	<i>7.8 amp.</i>	<i>100%</i>	<i>600 Meg.</i>
<i>2. aft. Acc.</i>	<i>24</i>	<i>..</i>	<i>6.5</i>	<i>..</i>	<i>..</i>	<i>..</i>	<i>..</i>
<i>3. Cargo + holds</i>	<i>26</i>	<i>..</i>	<i>7.0</i>	<i>..</i>	<i>..</i>	<i>..</i>	<i>..</i>
<i>4. Ford. acc. etc.</i>	<i>33</i>	<i>..</i>	<i>9.0</i>	<i>7/029</i>	<i>18.2 amp.</i>	<i>..</i>	<i>..</i>

Total No. of Lights *106*

No. of Motors driving Fans, &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

No. of Circuits to which Switches are provided on Main Switch Board	Main Switch Board	Position of Dynamometer	Single or Double Wire System	Current Indicating or Connections	Capacity	Mark of Dynamometer	No. and Description of Dynamometer	Insulation fitted to

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

Yes.

On Aux. " " each Auxiliary Circuit

No aux. boards.

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. 3/029 S.W.G., Largest, No. 7/029 S.W.G.

No single wire

No single

How are Conductors in Engine and Boiler Spaces protected?

Screwed pipe conduit.

" Saloons, State Rooms, &c.

Saloon, lead covered

Cabin screwed pipes.

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

Screwed pipe conduits

(2) " " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired? *No joints*Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces? Are all Hull Connections for Single-Wire Systems made with Screws of large Surface? Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them? *Yes.*Have Tests been made to prove that this condition has been satisfactorily fulfilled? *Yes.*Has the Insulation Resistance over the whole system been tested? *Yes.*

What does the Resistance amount to?

110,000

Ohms.

Is the Installation supplied with a Voltmeter? *Yes.*" " " an Ampere Meter? *Yes.*Date of Trial of complete Installation *15.3.26*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? *Yes.*

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

Surveyor.

Are the Donkey Motors, Main and Branch Cables, so placed as to prevent the Compresses and other

parts from being damaged by their

operation? Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the insulation resistance over the whole system been tested?

What does the Resistance amount to?

Is the insulation supplied with a Ventilate?

Is the insulation in complete installation?

Have all the requirements of Section 22 been satisfactorily complied with?

Are the cables fitted as required?

On Main Service Board, is Cable of Main Circuit *Yes.*

On Lamp *Yes.*

Whether a Cable is required in the *Yes.*

To each Lamp Circuit *Yes.*

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and

trustworthy? *Yes. Yes.*

Is the Workmanship throughout thoroughly satisfactory? *Yes. Yes.*

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

Are they kept in good order?

The above correctly describes the Machinery of the S.S. "JOHN S. PILLSBURY."

as ascertained by *me* from personal examination

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

Fees—

MAIN BOILERS.

H.S. *2940* Sq. ft. : :

G.S. *76* " : :

DONKEY BOILERS.

H.S. *✓* Sq. ft. : :

G.S. *✓* " : :

ENGINES.

L.P.C. *31.7* Cub. ft. : :

Testing, &c. ... : :

Expenses ... : :

Total ... £ : :

It is submitted that this Report be approved.

John King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *21st April 1926*

Fees advised

Fees paid



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Secretary

28. 9. 22	31. 12. 22	20. 9. 22
29. 9. 22	1. 1. 23	20. 9. 22
	2. 1. 23	20. 9. 22
	3. 1. 23	20. 9. 22
	4. 1. 23	20. 9. 22
	5. 1. 23	20. 9. 22
	6. 1. 23	20. 9. 22
	7. 1. 23	20. 9. 22
	8. 1. 23	20. 9. 22
	9. 1. 23	20. 9. 22
	10. 1. 23	20. 9. 22
	11. 1. 23	20. 9. 22
	12. 1. 23	20. 9. 22
	13. 1. 23	20. 9. 22
	14. 1. 23	20. 9. 22
	15. 1. 23	20. 9. 22
	16. 1. 23	20. 9. 22
	17. 1. 23	20. 9. 22
	18. 1. 23	20. 9. 22
	19. 1. 23	20. 9. 22
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	24. 1. 23	20. 9. 22
	25. 1. 23	20. 9. 22
	26. 1. 23	20. 9. 22
	27. 1. 23	20. 9. 22
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	24. 2. 23	20. 9. 22
	25. 2. 23	20. 9. 22
	26. 2. 23	20. 9. 22
	27. 2. 23	20. 9. 22
	28. 2. 23	20. 9. 22
	29. 2. 23	20. 9. 22
	30. 2. 23	20. 9. 22
	31. 2. 23	20. 9. 22



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