

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

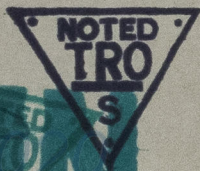
EARLES S+E. CO. LTD.

Works No.

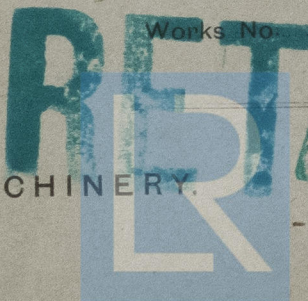
668.

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~~ ^{Single} Screw STEAMER
"JOHN S. PILLSBURY."

Official No. 149071 Port of Registry Hull.

Registered Owners Eastern Steamship Co. Ltd.
of Ontario, Canada.

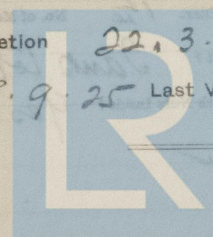
Engines Built by Earle S. & E. Co. Ltd.
at Hull.

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

Donkey " " ✓
at ✓

Date of Completion 22.3.26 2020

First Visit 28.9.25 Last Visit 22.3.26 Total Visits 60.



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RECIPROCATING ENGINES.

Works No. 668 No. of Sets 1 Description Triple expansion.
Surface condensing.

No. of Cylinders each Engine 3 No. of Cranks 3
Diams 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 Cyl.? Yes.

" " " each Receiver? Yes.

Type of H.P. Valves,

" 1st I.P. "

" 2nd I.P. "

" L.P. "

" Valve Gear

" Condenser

Diameter of Piston Rods (plain part) 4 7/8" Screwed part (bottom of thread) 3 1/2"

Material "

Diam. 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 Diam. over Thrd. 2 7/8" Thrd. per inch 6 Material "

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

" Main Bearings 6 Lengths 9 1/2"

" Bolts in each 2 Diam. over Thread 2 1/4" Threads per inch 6 Material Steel

" Holding Down Bolts, each Engine 56 Diam. 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

Piston " "

Crossheads (min)

Connecting Rods, Finished by

Piston " "

Crossheads, " "

Date of Harbour Trial 5. 3. 26

" Trial Trip 15. 3. 26.

Trials run at Ruia Humber.

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

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

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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Type of Turbines

No. of I.P.

No. of L.P.

No. of Asteria

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

Is Single or Double Reduction Gear employed?

Diar. of 1st Reduction Pinion

" 1st " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

„ 2nd „ „Whee

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revol. per min. of H.P. Turbines at Full Power

S.H.P.

I.P.

L.F.

1st Reduction Shaft

2nd

Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial

“ Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revols. 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.

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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 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*Dowel 13 1/8"*

Length

4 1/2"

„ Dowels in Crank Pins

13 1/8"

Length

Screwed or Plain

plain

No. of Bolts each Coupling

6

Diar. at Mid Length

28"

Diar. of Pitch Circle

14 1/2"

Greatest Distance from Edge of Main Bearing to Crank Web

1/4"

Type of Thrust Blocks

None 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.

George L. Dorain
Boots 2139
See



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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 $\frac{1}{2}$ Moulded Depth

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



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PUMPS, ETC.

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 Circ. pump, Ballast

What other Pumps can draw from the Bilges? pump

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. 7-11-25 5-13-25
No. 2807
320 H
180 H
GAN
10-2-26



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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 Lifting Gear?

No. of Pressure Gauges, each Boiler

" Test Cocks

No. of Water Gauges

" Salinometer Cocks

Same as George L. Jordan 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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 Foundation

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 Pitch

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space Approved

„ „ in Boilers

Pitch of Steam Space Straps

Diar. of Rivet Holes Pitch

„ „ in Boilers

Material of „

How are Seams Secured?

Diar. and Thickness of Loose Washers on End Plates

„ „ Riveted „

Width „ Doubling Straps „

Thickness of Middle Back End Plates Approved

„ „ in Boilers

Thickness of Doublings in Wide Spaces between Trunks

Pitch of Straps at

Diar. of Rivet Holes Pitch

„ „ in Boilers

Material „

Are Straps fitted with their outside?

Thickness of Back End Plates at Bottom Approved

„ „ in Boilers

Pitch of Straps at Wide Spaces between Trunks

Thickness of Doublings „

Thickness of Front End Plates at Bottom Approved

„ „ in Boilers

No. of Longitudinal Straps in Spaces between Trunks



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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

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved

Thickness of End Plates Approved

" " " " " in Boilers

Thickness of End Plates Approved



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Diam. 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 Diam. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diam. 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. 2/29*



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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

*George L. Jordan
Book 2739*

See

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 Ends
Description of Stays in Boiler Crown
Pitch of Stays
Height of Firebox Crown above Fire Grate
The Firebox Crown Flat or Dished?
External Radius of Dished Crown
No. of Lower Stays
Material
Bottom
External Diam. of Firebox at Top
No. of Water Tubes
Internal Diam. of Water Tubes
Material of Water Tubes
Pitch of Manholes in Shell
Thickness of Combustion Chamber Backs
Thickness of Firebox and Boilers

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 Pipes

Material

Radius, Width or Diameter

Internal Diar.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Pipes

Material

Radius, 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**
 Material **Steel**
 Brazed, Welded or Seamless **Seamless**
 Internal Diam. **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 Diam. **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 Diam.
 Thickness
 How are Flanges secured?
 Date of Hydraulic Test
 Test Pressure



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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. 1 Type Surface 24" \square
 Makers Henry Watson & Son Newcastle.
 Working Pressure Exhaust. Coils 432 lbs. Date of Test 18.1.26
 Steam from 13.1.26
 LP exp. Shells 150 lbs. MC. 3272 (H)
 + 15.3.26.

FEED WATER FILTERS.

No. 1 Type Suction 1180" \square Size 24"
 Makers Henry Watson & Son Newcastle.
 Working Pressure Test Pressure Date of Test 15.3.26.

LIST OF DONKEY PUMPS.

See George L. Jorain
 Book. 2129



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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. Jackson
 Book 2129

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			
2. 1st. Deck	21			
3. 2nd. Deck	21			
4. 3rd. Deck	21			
5. 4th. Deck	21			
6. 5th. Deck	21			
7. 6th. Deck	21			
8. 7th. Deck	21			
9. 8th. Deck	21			
10. 9th. Deck	21			
11. 10th. Deck	21			
12. 11th. Deck	21			
13. 12th. Deck	21			
14. 13th. Deck	21			
15. 14th. Deck	21			
16. 15th. Deck	21			
17. 16th. Deck	21			
18. 17th. Deck	21			
19. 18th. Deck	21			
20. 19th. Deck	21			
21. 20th. Deck	21			
22. 21st. Deck	21			
23. 22nd. Deck	21			
24. 23rd. Deck	21			
25. 24th. Deck	21			
26. 25th. Deck	21			
27. 26th. Deck	21			
28. 27th. Deck	21			
29. 28th. Deck	21			
30. 29th. Deck	21			
31. 30th. Deck	21			
32. 31st. Deck	21			
33. 32nd. Deck	21			
34. 33rd. Deck	21			
35. 34th. Deck	21			
36. 35th. Deck	21			
37. 36th. Deck	21			
38. 37th. Deck	21			
39. 38th. Deck	21			
40. 39th. Deck	21			
41. 40th. Deck	21			
42. 41st. Deck	21			
43. 42nd. Deck	21			
44. 43rd. Deck	21			
45. 44th. Deck	21			
46. 45th. Deck	21			
47. 46th. Deck	21			
48. 47th. Deck	21			
49. 48th. Deck	21			
50. 49th. Deck	21			
51. 50th. Deck	21			
52. 51st. Deck	21			
53. 52nd. Deck	21			
54. 53rd. Deck	21			
55. 54th. Deck	21			
56. 55th. Deck	21			
57. 56th. Deck	21			
58. 57th. Deck	21			
59. 58th. Deck	21			
60. 59th. Deck	21			
61. 60th. Deck	21			
62. 61st. Deck	21			
63. 62nd. Deck	21			
64. 63rd. Deck	21			
65. 64th. Deck	21			
66. 65th. Deck	21			
67. 66th. Deck	21			
68. 67th. Deck	21			
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RECORD BOOK

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ELECTRIC LIGHTING.

Installation Fitted by *Charles 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.
1. Eng. Room	23	16	6.25	3/029	7.8 amp.	100%	600 Meg.
2. aft. Acc.	24	"	6.5	"	"	"	"
3. Cargo + holds	26	"	7.0	"	"	"	"
4. Ford. acc. etc.	33	"	9.0	7/029	18.2 amp.	"	"

Total No. of Lights *106*

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Out-outs constructed of Non-inflammable Material?

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

Smallest Single Wire used, No. 3/029 S.W.G., Largest, No. 7/029 S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

" Saloons, State Rooms, &c.,

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(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?

" " " an Ampere Meter?

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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Approved Plans? Yes

And the Dynamometer, Motor, Main and Branch Cables so placed that the Compresses are Surveyor.

MAIN BOILERS.

G.S. 76

DONKEY BOILERS.

H.S.	Sq. ft.
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

G.S. ✓

ENGINES.

L.P.C. 31.7 Cub. ft.

Testing, &c.

Expenses
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Total ..

It is submitted that this Report be approved.

W. L. King
Chief Surveyor.

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

trustworthy? *C.*

Is the Workmanship throughout thoroughly satisfactory? *C*

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

as ascertained by ~~the~~ me from personal examination

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

Fees advised

Fees paid

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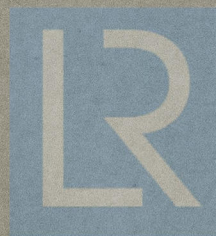
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28.4.31	28.4.28	28.4.30



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