

No. 2174

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2024 No. in Register Book 3364

S.S. JOHN. H. PRICE

Makers of Engines Cumtuo Dock Co. Ltd.

Works No. 299

Makers of Main Boilers Cumtuo Marine Engine Works

Works No. R 322

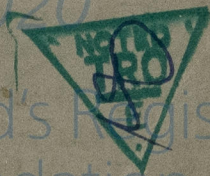
Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
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Report No. No. in Register Book

Received at Head Office *17th August 1927*

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

John H. Price

Official No. *147788* Port of Registry *Montreal*
Registered Owners *Hall Corporation of Canada*

Engines Built by *Switzer Dock Co Ltd.*
" at *South Bank-on-Sea.*
Main Boilers Built by *Central Marine Engine Works.*
" at *Northwich.*

Donkey " " ✓
" at " ✓
Date of Completion *4-27*
First Visit *16-12-26* Last Visit *21-4-27* Total Visits *40*

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RECIPROCATING ENGINES.

Works No. 299

No. of Sets 1

Description

Triple expansion
P.L. Berks.

No. of Cylinders each Engine

3

No. of Cranks

3

Diams. of Cylinders

15" 25" 40"

Stroke

33"

Cubic feet in each L.P. Cylinder

23.65

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

Yes.

" " " each Receiver?

Yes.

Type of H.P. Valves,

Piston.
Slide.

" 1st L.P. "

" 2nd L.P. "

" L.P. "

" Valve Gear

" Condenser

Slide
Clinkenson Link.
Surface.
M. Club.

Cooling Surface

850

sq. ft.

Diameter of Piston Rods (plain part)

4 1/4"

Screwed part (bottom of thread)

2.743"

Material

M. Club.

Diam. of Connecting Rods (smallest part)

4"

Material

M. Steel.

" Crosshead Gudgeons

3 7/8"

Length of Bearing

4 1/16"

Material

"

No. of Crosshead Bolts (each)

4

Diam. over Thrd.

1 3/4"

Thrds. per inch

5

Material

M.S.

" Crank Pin "

2

" 2 1/4"

6

"

"

" Main Bearings

6

Lengths

8 3/8"

" Bolts in each

2

Diam. over Thread

2"

Threads per inch

7

Material

M.S.

" Holding Down Bolts, each Engine

52

Diam.

1 1/4"

No. of Metal Chocks

52

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

Brown Bros.
Saulington Yacht Club
Brown Bros.

Piston

" "

Crossheads,

Connecting Rods, Finished by

Cuthberts.

Piston

" "

Crossheads,

Date of Harbour Trial

13-4-27

" Trial Trip

25-4-27

Trials run at

In Les Bay.

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

Yes.

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

741.5

Revs. per min.

100

Pressure in 1st L.P. Receiver, 50.2 lbs., 2nd L.P.,

lbs., L.P., 6.5 lbs., Vacuum, 2.5 ins.

Speed on Trial

no speed taken.

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 I.P.

No. of L.P.

No. of Stern

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

Is Single or Double Reduction Gear employed?

Diar. of 1st Reduction Pinion

" 1st " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

" 2nd " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

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

S.H.P.

" I.P. " "

" L.P. " "

" 1st Reduction Shaft

" 2nd "

" Propeller Shaft

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revs. per min.

S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

TURBO-ELECTRIC INSTALLATION OF MACHINERY

No. of Turbo-Electric Engines

Type of Turbines employed

Description of Construction

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

Diar. of 1st Reduction Pinion

" 1st " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion

" 2nd " Wheel

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revs. per min. of Motors at Full Power

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "



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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

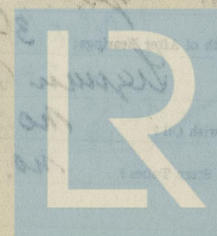
Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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PUMPS, ETC.

No. of Air Pumps

one

Diar.

14"

Stroke

16 1/2"

Worked by Main or Independent Engines?

main engines.

No. of Circulating Pumps

one

Diar.

10"

Stroke

10"

Type of

"

Duplex.

Diar. of

"

Suction from Sea

17"

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

yes.

Diar.

4 3/4"

What other Pumps can circulate through Condenser?

Ballast pump.

No. of Feed Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

Are Spring-loaded Relief Valves fitted to each Pump?

yes.

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

yes.

No. of Independent Feed Pumps

Diar.

Stroke

What other Pumps can feed the Boilers?

G. P. pump & injector.

No. of Bilge Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 1/2"

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

yes.

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Ballast 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?

yes.

Are they fitted direct to the Hull Plating and easily accessible?

above.

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the Outside?

yes.

BOILERS

Works No.

No. of Boilers

Single or Double-ended

No. of Furnaces in each

Type of Furnaces

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?

Methods of Flues

Stay Bars

Stays

Furnaces

Grates Internal Flues of Boilers

Length

Pressure Test of Main and Safety Boilers

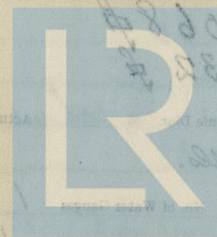
Grates

No. of Safety Valves on each boiler

When set? Valves tested in which position?

The Accumulation Test

Test Cocks



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

direct pillars.

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

by pipes.

Are these Pipes connected to Boilers by Cocks or Valves?

cocks.

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

valves.

No. of Strakes of Shell Plating in each Boiler

one.

Plates in each Strake

one.

Thickness of Shell Plates Approved

13/16"

in Boilers

13/16"

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

5/8"

inside

3/4"

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

7/8"

Pitch

6 1/8"

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

2

Are these Seams Hand or Machine riveted?

Back machine, Front hand.

Diam. of Rivet Holes

1"

Pitch

3 1/2"

No. of Rows of Rivets in Back End Circumferential Seams

2

Are these Seams Hand or Machine Riveted?

machine.

Diam. of Rivet Holes

1"

Pitch

3 1/2"

Size of Manholes in Shell

16" x 12"

Dimensions of Compensating Rings

3' 1" x 2' 9 1/2" x 13/16"



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Thickness of End Plates in Steam Space Approved

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

" " " " in Boilers

Pitch of Steam Space Stays

14" x 18"

Diar. " " " " Approved

2 3/4"

Threads per Inch

6

" " " " in Boilers

2 3/4"

6

Material of " " "

steel.
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

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

" " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

13 1/2" x 9"

Pitch of Stays at

17/8"

Diar. of Stays Approved

Threads per Inch

9

" " in Boilers

17/8"

Material "

steel.

Are Stays fitted with Nuts outside?

yfs.

Thickness of Back End Plates at Bottom Approved

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

" " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

13 1/2" x 9"

Thickness of Doublings in " "

✓

Thickness of Front End Plates at Bottom Approved

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

" " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

one.

Diar. of Stays Approved

" " in Boilers

Material

Thickness of Front End Plates Approved

" " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

Stays fitted with Nuts at Front End?

Thickness of Back End Plates Approved

" " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Stays Approved

" " in Boilers

Material

Thickness of Front End Plates Approved

" " in Boilers

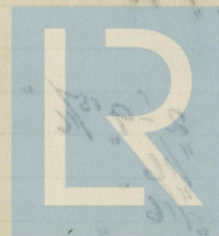
Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

Thickness of Back End Plates Approved

" " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes



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Diar. of Stays Approved

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

Threads per Inch

6

" " in Boilers

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

6

Material "

steel.

Thickness of Front Tube Plates Approved

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

" " " in Boilers

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

Pitch of Stay Tubes at Spaces between Stacks of Tubes

 $13\frac{1}{2} \times 7\frac{1}{2}$ "

Thickness of Doublings in

" " "

 $\frac{1}{4}$ "

" Stay Tubes at

" " "

 $\frac{1}{4}$ "

Are Stay Tubes fitted with Nuts at Front End?

no.

Thickness of Back Tube Plates Approved

 $\frac{7}{8}$ "

" " " in Boilers

 $\frac{7}{8}$ "

Pitch of Stay Tubes in Back Tube Plates

 $11\frac{1}{4} \times 7\frac{1}{2}$ "

" Plain "

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

Thickness of Stay Tubes

 $\frac{1}{4}$ " $\frac{3}{16}$ "

" Plain "

9 $\frac{1}{16}$ "

External Diar. of Tubes

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

Material "

W. Iron.

Thickness of Furnace Plates Approved

 $\frac{7}{16}$ "

" " " in Boilers

 $\frac{7}{16}$ "

Smallest outside Diar. of Furnaces

 $2'-9\frac{5}{8}"$

Length between Tube Plates

 $7'-6"$

Width of Combustion Chambers (Front to Back)

 $2'-9\frac{5}{16}"$

Thickness of " " Tops Approved

 $\frac{1}{16}$ "

" " " in Boilers

 $\frac{1}{16}$ "

Pitch of Screwed Stays in C.O. Tops

 9×10 "

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Diar. of Screwed Stays Approved

Threads per Inch

9

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

 $\frac{1}{16}$ "
 $\frac{1}{16}$ "

in Boilers

Pitch of Screwed Stays in C.C. Sides

Diar. " " Approved

Threads per Inch

9

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

 $\frac{1}{16}$ "
 $\frac{1}{16}$ "

in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " Approved

Threads per Inch

9

" " " in Boilers

Material " "

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

yfs.
 $\frac{1}{16}$ "

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

4

" " " Centre "

Depth and Thickness of Girders

 $8\frac{3}{4}$ " x $1\frac{1}{4}$ "
steel.

Material of Girders

No. of Stays in each

2

No. of Tubes, each Boiler

340

Size of Lower Manholes

 15 " x 11 "

VERTICAL DONKEY BOILERS.

No. of Boilers
Type
Quantity in Use
Height of Boiler Crown above the Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Boilers
Thickness of Plates
Pitch of Stays in Boiler Crowns
Diar. of Stays in Boilers
Height of Pinch Crown above the Grate
Are Pinch Crowns Flat or Dished?
Internal Radius of Dished Crowns
Thickness of Plates
Diar. of Crown Stays
No. of Water Tubes
External Diar. of Pinch at Top
Thickness of Plate
No. of Water Tubes
Material of Water Tubes
Diar. of Manhole in End
Thickness of Communicating Line
Heating Surface, each boiler
Gross Surface

SUPERHEATERS.



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MAIN STEAM PIPES.

No. of Lengths *2*
 Material *Copper.*
 Brazed, Welded or Seamless *S. D.*
 Internal Diam. *3 1/4"*
 Thickness *8. W.G.*
 How are Flanges secured? *Brazed.*
 Date of Hydraulic Test *9-4-27*
 Test Pressure *400 lbs.*

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

SUPERHEATERS

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

SUPERHEATERS

Feed Water Pump
Vertical Copper D. H. by Russell
Ballcock 10" x 10" x 10"

Ballcock Pump Vertical Copper
by Russell 10" x 10" x 10"
9-4-27

Ballcock Pump Vertical Copper
by Russell 10" x 10" x 10"
9-4-27

Feed Water Filters
Vertical Copper 10" x 10" x 10"
by Russell 10" x 10" x 10"
9-4-27

Feed Water Pump Horizontal
Copper by H. W. Mumford 10" x 10" x 10"
9-4-27



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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. one	Type Exhaust Steam.	
Makers	Halpern & Broske.	
Working Pressure 180 lbs.	Test Pressure 400	Date of Test

FEED WATER FILTERS.

No. one	Type High Pressure	Size 2 1/4"
Makers	Maccall & Pallock.	
Working Pressure 180 lbs.	Test Pressure 400 lbs.	Date of Test

LIST OF DONKEY PUMPS.

Feed General Service Pump.
Vertical Duplex D.A. by Maccall &
Pallock 6" x 4" x 6"

Balcast Pump Vertical Duplex
by Maccall & Pallock.
9 1/2" x 11 1/2" x 11"

Circulating Pump Vertical Duplex
by Maccall & Pallock.
9" x 10" x 10"

Sanitary Pump Horizontal
Duplex by A. S. Mumford & Co.
3 1/2" x 3 1/2" x 4"

Fresh water pump Horizontal
Duplex by A. S. Mumford & Co.
3 1/2" x 3 1/2" x 4"



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OTHER ARTICLES OF SPARE GEAR:—

24. Ballast water pump, 12 gal. per min.
6. George's glass, 1 ft. per min.
1 day rubber ring, for 2 ft.
2 sheets of tin
1 set of 12 in. pump, 12 gal. per min.
1 set feed donkey water rubber
1 set Ballast donkey water rubber
1 set Sanitary pump water rubber
1 escape valve spring for each size
filled

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	36	36	10	1250
Engine Room	36	36	10	1250
Boiler Room	36	36	10	1250
Galley	36	36	10	1250
Stowage Room	36	36	10	1250
Deck	36	36	10	1250
Water Tank	36	36	10	1250
Oil Tank	36	36	10	1250
Refrigeration	36	36	10	1250
Insulated	36	36	10	1250
Engine Room	36	36	10	1250
Water Tank	36	36	10	1250
Oil Tank	36	36	10	1250
Refrigeration	36	36	10	1250
Insulated	36	36	10	1250

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



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REPORT OF RESULTS

Time required to obtain this result.	Temp. at end of this.	Temp. at beginning of this.	Temp. at end of this.	Temp. at beginning of this.
--------------------------------------	-----------------------	-----------------------------	-----------------------	-----------------------------

ELECTRIC LIGHTING

Installation Fitted by

R. Pickering & Sons.

No. and Description of Dynamos

One Bunkerhead dynamo.

Makers of Dynamos

Sundeland Forge & Eng. Co. Ltd.

Capacity

91

Amperes, at

110

Volts,

350 Revols. per Min.

Current Alternating or Continuous

Continuous.

Single or Double Wire System

Double.

Position of Dynamos

Starboard side Engine Room.

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.
<i>Irrigation</i>	<i>9</i>	<i>340 watts.</i>	<i>3.6</i>	<i>7/029</i>	<i>.038</i>	<i>100%</i>	<i>1250</i>
<i>Forward.</i>	<i>32</i>	<i>960 watts</i>	<i>9.6</i>	<i>7/044</i>	<i>.044</i>	<i>"</i>	<i>900</i>
<i>Engine Room.</i>	<i>16</i>	<i>380 watts</i>	<i>3.8</i>	<i>7/029</i>	<i>.038</i>	<i>"</i>	<i>1250</i>
<i>Off. Accom.</i>	<i>39</i>	<i>1170 watts.</i>	<i>11.7</i>	<i>7/044</i>	<i>.044</i>	<i>"</i>	<i>900</i>

Total No. of Lights

97

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

" " " "

(3)

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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 Cut-outs constructed of Non-inflammable Material?

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

Smallest Single Wire used, No. 11.044 S.W.G., Largest, No. 7.074 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 *Red covered / Announced.*
- (2) " passing through Bunkers or Cargo Spaces *JP*
- (3) " " Deck Beams or Bulkheads

is unimpaired? *none*

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? *UB*

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 Installation supplied with a Voltmeter?

" " " an Ampere Meter?

Date of Trial of complete Installation 25-4-21 Duration of Trial

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

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 Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy? *yes.*

Is the Workmanship throughout thoroughly satisfactory? *yes.*

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

JOHN. H. PRICE

as ascertained by *me* from personal examination

John H. Price
Engineer-Surveyor to the British Corporation for the
Survey and Registry of Shipping.

Fees—

MAIN BOILERS.

		£	s.	d.
H.S.	<i>2136</i>	Sq. ft.	<i>16</i>	<i>0 : 0</i>
G.S.	<i>64</i>	"		<i>: :</i>

DONKEY BOILERS.

		£	s.	d.
H.S.	<i>✓</i>	Sq. ft.		<i>: :</i>
G.S.	<i>✓</i>	"		<i>: :</i>
		£		<i>: :</i>

ENGINES.

L.P.O.	<i>23.65</i>	Cub. ft.	<i>22</i>	<i>0 : 0</i>
		£		<i>: :</i>
Testing, &c. ...	<i>FL</i>		<i>10</i>	<i>0 : 0</i>
		£		<i>: :</i>
Expenses ...				<i>: :</i>
Total ...	£	<i>48</i>	<i>0 : 0</i>	

It is submitted that this Report be approved,

John H. Price
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *24th August 1927*

Fees advised

Fees paid



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