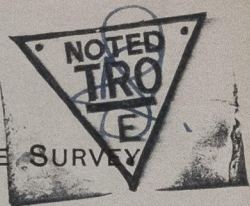


No. 2281



THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

H. L. WYATT.

Report No. 2258 No. in Register Book 3642

Lt. John Wise

S.S. "Portwell"

Makers of Engines Swan Hunter & W.R. Ltd.

Works No. 1352.

Makers of Main Boilers Swan Hunter & W.R. Ltd.

Works No. 1350

Makers of Donkey Boiler None -

Works No. ✓

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

24th February 1930

Surveyor's Report on the New Engines, Boilers, and Auxiliary Machinery of the ^{Single Triple} ~~Steam~~ ^{Steam} Screw Steamer "Portwell".

Official No. 161514 Port of Registry Newcastle-on-Tyne.

Registered Owners Welland Steamship Co. Ltd.
Welland, Ontario, Canada.

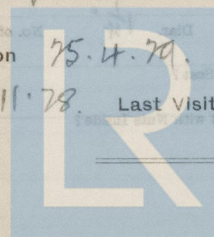
Engines Built by Swan Hunter & W.R. Ltd.
at Walker. R. Tyne.

Main Boilers Built by Swan Hunter & W.R. Ltd.
at Walker.

Donkey " " None.
at ✓

Date of Completion 75.4.79.

First Visit 26.11.78. Last Visit 25.4.79. Total Visits



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RECIPROCATING ENGINES.

Works No. **1352**. No. of Sets **One** Description **Triple expansion**
Surface condensing.

No. of Cylinders each Engine **Three.** No. of Cranks **Three**
 Diars. of Cylinders **15", 25" and 40"** Stroke **33"**
 Cubic feet in each L.P. Cylinder **24"**
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? **Yes**

" " each Receiver? **Yes.**

Type of H.P. Valves, **Piston valve.**

1st I.P. " **Tric valve.**

2nd I.P.,

L.P. " **Double ported.**

" Valve Gear **Stephenson Link.**

" Condenser **Circular Two flow.** Cooling Surface **700** sq. ft.

Diameter of Piston Rods (plain part) Screwed part (bottom of thread)

Material "

Diar. of Connecting Rods (smallest part) Material

" Crosshead Gudgeons Length of Bearing Material

No. of Crosshead Bolts (each) Diar. over Thrd. Thrds. per inch Material

" Crank Pin " " " "

" Main Bearings Lengths

" Bolts in each Diar. over Thread Threads per inch Material

" Holding Down Bolts, each Engine **61** Diar. **1 1/4"** No. of Metal Checks **61**

Are the Engines bolted to the Tank Top or to a Built Seat?

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

Connecting Rods, Forged by

Piston " "

Crossheads,

Connecting Rods, Finished by

Piston " "

Crossheads,

Date of Harbour Trial **22.4.79.**

" Trial Trip **15.4.79.**

Trials run at **off River type.**

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

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

935

Revs. per min. **99.75**

Pressure in 1st I.P. Receiver, **41.0** lbs., 2nd I.P., **✓**

lbs., L.P., **11.5** lbs., Vacuum, **24.75** ins.

Speed on Trial **8.84**

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

data:—

Builders' estimated L.H.P. **✓**

Revs. per min. **✓**

Estimated Speed **✓**

The machinery of this vessel is a duplicate of that numbered 1374 and fitted in no 1369 ^{2/3} "John O. McKellar" building at the same time and the details of which are similar unless otherwise stated.



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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?			
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 H.P. Turbines at Full Power			S.H.P.
" " I.P. " "	If the Conditions on Trial were such that full power could not be obtained, state the conditions.		
" " L.P. " "			
" " 1st Reduction Shaft	Revs. per min. at Full Power		
" " 2nd " "	Estimated Speed		
" " Propeller Shaft	Revs. per min. 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.
Turbine Spindles forged by			
" Wheels forged or cast by			
Reduction Gear Shafts forged by			
" Wheels forged or cast by			

DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets	Capacity of each
Type of Turbine employed	Description of Generator
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
Diam. of 2nd Reduction Pinion	
Width	Pitch of Teeth
Estimated Pressure per lineal inch	
Revs. per min. of Generator at Full Power	
" " " "	
" 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.



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion

" 1st " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors "

" " 1st Reduction Shaft

" " 2nd "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revs. per min.

S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

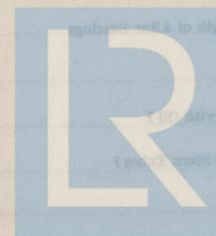
Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built

No. of Lengths in each

Angle of Cranks

Diar. by Rule

Actual

In Way of Webs

" of Crank Pins

Length between Webs

Greatest Width of Crank Webs

Thickness

Least

Diar. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

Multi-collar horse shoe.

No. " Rings

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

" " Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

No intermediate shafting.

Diar. of Propeller Shafts by Rule

Actual

At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Length of After Bearings

Of what Material are the After Bearings composed?

Are Means provided for lubricating the After Bearings with Oil?

" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.

*Same as 1/2 Kingdoc
Engine 1236. built 1927.*

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No. of Blades each Propeller Fitted or Solid?

Material of Blades	Boss		
Diam. of Propellers	Pitch	Surface (each	S. ft.
Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth			

Crank Shafts Forged by	John Rogerson	Material
" Pins	"	"
" Webs	"	"
Thrust Shafts	"	"
Intermed. "	None	"
Propeller "	John Rogerson.	"
Crank " Finished by	Swan Hunter & W.R. Ord.	
Thrust " "	"	"
Intermed. "	None.	
Propeller "	Swan Hunter & W.R. Ord.	

STAMP MARKS ON SHAFTS.

Crank shaft	B.C. 533.	J.L. 19/3/29
Thrust shaft.	B.C. 533,	J.L. 19/3/29
Propeller shaft.	B.C. 533,	J.L. 19/3/29

SKETCH OF PROPELLER SHAFT.

See S/S King doc
Engine No 1236.
Built in 1927.

PUMPS, ETC.

No. of Air Pumps

One

Diar.

Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps

One

Diar.

Stroke

Type of

"

Dawson & Downie Simplex.

Diar. of

"

Suction from Sea

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

Diar.

What other Pumps can circulate through Condenser?

Ballast pump.

No. of Feed Pumps on Main Engine

Diar.

Stroke

Are Spring-loaded Relief Valves fitted to each Pump?

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

No. of Independent Feed Pumps

Diar.

Stroke

What other Pumps can feed the Boilers?

General Service pump,
and injector.

No. of Bilge Pumps on Main Engine

Diar.

Stroke

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

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Circulating pump and
ballast pump.

Are all Bilge Suctions fitted with Roses?

Yes or mudboxes.

Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges?

Are all Sea Connections made with Valves or Cocks next the Ship's sides?

Are they placed so as to be easily accessible?

Are the Discharge Chests placed above or below the Deep Load Line?

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

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

BOILERS

Work No.

No. of Boilers

Height or Double-ended

No. of Furnaces in each

Type of Furnace

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 when Accumulation Test

Pressure of Steam

Can Boilers be worked separately?

Material of Boilers

" " " "

" " " "

" " " "

Quantity of Water in Boilers

" " " "

" " " "

" " " "

No. of Safety Valves on each boiler

" " " "

No. of Pressure Gauges on each boiler

" " " "



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BOILERS

Works No. 1350.

No. of Boilers Two Type Cylindrical Multitubular

Single or Double-ended Single-ended

No. of Furnaces in each two.

Type of Furnaces Deighton.

Date when Plan approved 3.1.29.

Approved Working Pressure 180 lbs.

Hydraulic Test Pressure 320 ..

Date of Hydraulic Test 4.4.29.

" when Safety Valves set 22.4.29.

Pressure at which Valves were set 185 lbs.

Date of Accumulation Test none taken.

Maximum Pressure under Accumulation Test

System of Draught Howdens system forced C.A.

Can Boilers be worked separately? Yes.

Makers of Plates Steel Coy of Scotland.

" Stay Bars

" Rivets Rivet Bolt unit

" Furnaces Deighton, Patent Blue & tube Coy.

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 Easing Gear?

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

" Test Cocks " Salinometer Cocks

Are the Water Gauges fitted direct to the Boiler Shell or mounted on Pipes?

Are the Water Gauges fitted direct to the Boiler Shell 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 Stitches of Shell Plating in each Boiler

Plates in each Stitch

Thickness of Shell Plates Approved

" " in Boilers

Are the Rivets Iron or Steel?

Are the longitudinal seams butt or lap joints?

Are the Butt Joints Single or Double?

Are the Double Butt Joints of equal width?

Thickness of outside Plate Stitches

" "

Are longitudinal seams hand or machine riveted?

Are Butt Joints Double or Triple Riveted?

No. of Rivets in a Stitch

Place of Rivet Heads

No. of Rows of Rivets in Centre of longitudinal seams

Are these seams hand or machine riveted?

Place of Rivet Heads

No. of Rows of Rivets in Vee of Butt circumferential seams

Are these seams hand or machine riveted?

Place of Rivet Heads

No. of Rows of Rivets in Vee of Butt circumferential seams

Are these seams hand or machine riveted?

Place of Rivet Heads



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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 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



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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



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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

VERTICAL DONKEY BOILERS.

No. of Boilers	Type	Height	Grreatest Int. Diam.	Height of Boiler Crown above Fire Grate	Are Boiler Crowns Flat or Dished?	Internal Radius of Dished Ends	Description of Stays in Boiler Crown	Height of Firebox Crown above Fire Grate	Are Firebox Crowns Flat or Dished?	Internal Radius of Dished Crowns	No. of Crown Stays	Material	Thickness of Plates	Bottom	Internal Diam. of Firebox at Top	Size of Water Tubes	Internal of Water Tubes	Size of Manholes at End	Dimensions of Communicating Pipe	Heating Surface, each Boiler	Three Columns
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SUPERHEATERS.

Description of Superheater	Where situated?	Which direction does steam flow?	Can superheater be shut off when boiler is working?	No. of Safety Valves on each Superheater	Internal of Safety Valve	Size of Manhole at Bottom	Dimensions of Y-Piece
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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			
Seams, Welded or Riveted			
Internal Diar.			
Thickness			
How are Pipes connected?			
Date of Hydraulic Test			
Test Pressure			
No. of Boilers			
Material			
Seams, Welded or Riveted			
Internal Diar.			
Thickness			
How are Pipes connected?			
Date of Hydraulic Test			
Test Pressure			
No. of Boilers			
Material			
Seams, Welded or Riveted			
Internal Diar.			
Thickness			
How are Pipes connected?			
Date of Hydraulic Test			
Test Pressure			



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MAIN STEAM PIPES.

No. of Lengths	3.			
Material	Steel.			
Brazed, Welded or Seamless	Seamless			
Internal Diam.	3½"			
Thickness	¼"			
How are Flanges secured?	Screwed			
Date of Hydraulic Test	17. 4. 29.			
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				
No. of Lengths				
Material				
Brazed, Welded or Seamless				
Internal Diam.				
Thickness				
How are Flanges secured?				
Date of Hydraulic Test				
Test Pressure				

FEED WATER PIPES.

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

EVAPORATORS.

FEED WATER HEATERS.			
No.	One.	Type	Exhaust Steam Surface.
Makers	Hocking.		
Working Pressure	180 lbs.	Test Pressure	Coils 450 lbs. Body 50 -
Date of Test	18.2.29. ?		

FEED WATER FILTERS.

No.	One.	Type	pressure.	Size	@
Makers	Hy Watson & Sons				
Working Pressure	180 lbs	Test Pressure	450 lbs	Date of Test	27.3.29.

LIST OF DONKEY PUMPS.

Same as John O. Mc Kellar
Eng No 1374. Buill' 1929.

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OTHER ARTICLES OF SPARE GEAR:—

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.

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

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No. of Circuit to which switches are provided on Main Switch Board	Main Switch Board	Position of Dynamometer	Single or Double Wire System	Current Affirmation or Confirmation	Capacity	Meters of Dynamometer	No. and Description of Dynamometer	Installation Fitted by
1	On Main Switch Board	On Main Switch Board	Double Wire	Confirmed	110 Volts	380	For compound winding	W. R. No.

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.	S.W.G., Largest, No.	S.W.G.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

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 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?

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? 600,000

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation 24.4.29 Duration of Trial

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

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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. *Yes*

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. "Portwell".

as ascertained by *me* from personal examination

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

Fees—

MAIN BOILERS.

	£	s.	d.
H.S. Sq. ft.	:	:	:
G.S. "	:	:	:

DONKEY BOILERS.

H.S. Sq. ft.	:	:	:
G.S. "	:	:	:
	£	:	:

ENGINES.

L.P.O. Cub. ft.	:	:	:
	£	:	:
Testing, &c. ...	:	:	:
	£	:	:
Expenses ...	:	:	:
Total ...	£	:	:

It is submitted that this Report be approved,

John Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *23rd December 1929*

Fees advised

Fees paid



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Secretary.

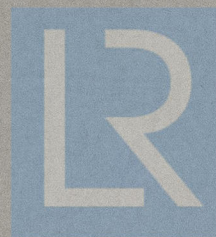
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