

No. 2282

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2263 No. in Register Book 3647

J. N. McWatters.
S.S. "Lockwell."

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

Works No. 1354.

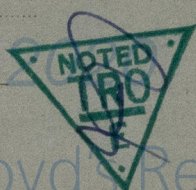
Makers of Main Boilers *Swan Hunter & W.R. Ltd.*

Works No. 1354

Makers of Donkey Boiler *None.*

Works No. ✓

MACHINERY.



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Foundation

44

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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~~ Single Screw Skamell "Lockwell".

Official No. 161519 Port of Registry

Registered Owners Welland Steamship Co. Ltd.

Welland, Ontario, Canada.

Engines Built by Swan Hunter & W.R. Ltd.

at Walker R. Ique

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

at Walker

Donkey " " None

at ✓
Date of Completion 2.5.29.

First Visit 26.11.28. Last Visit 2.5.29. Total Visits

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RECIPROCATING ENGINES.

Works No. 1354. No. of Sets One Description Triple-expansion
surface condensing.

No. of Cylinders each Engine Three. No. of Cranks Three.
Diars. of Cylinders 15", 25" & 40" Strokes 33".
Cubic feet in each L.P. Cylinder 24.
Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cyl.? Yes.
" " each Receiver? Yes.
Type of H.P. Valves, Piston Valve.
1st I.P., " Tric Valve.
2nd I.P., "
L.P., " Doubleported.
" 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 Chocks 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

Life Forge Coy. Scotland.

Piston " "

Crossheads, " "

Connecting Rods, Finished by

Swan Hunter. Walker.

Piston " "

Crossheads, " "

Date of Harbour Trial

29.4.29

" Trial Trip

2-5.29.

Trials run at

off River Tyne.

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

Yes.

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

866

Revs. per min. 94.15

Pressure in 1st I.P. Receiver,

70

lbs., 2nd I.P., ✓

lbs., L.P., 11.0 lbs., Vacuum, 25" ins.

Speed on Trial

9.29

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

This machinery is a duplicate of that numbered 1324 and fitted in No 1369 of "John D. McKellar" building at the same time and the details of which are similar unless otherwise stated.



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion

Width

Pitch of Teeth

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

Width

Pitch of Teeth

" 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors "

" " 1st Reduction Shaft

" " 2nd "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revols. per min.

S.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.

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 Couplings

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

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 1/2 Moulded Depth

Crank Shafts Forged by

John Rogerson.

Material

Steel

Pins

Webs

Thrust Shafts

Interned.,

None

Propeller

John Rogerson.

Crank Finished by

Swan Hunter & W.R. Ltd.

Thrust

Interned.,

None.

Propeller

Swan Hunter & W.R. Ltd.

STAMP MARKS ON SHAFTS.

Crank shaft B.C. 571. J.L. 19/3/29

Thrust shaft B.C. 571. J.L. 19/3/29

Propeller shaft. B.C. 571. J.L. 19/3/29

SKETCH OF PROPELLER SHAFT.

Same as 'Kingdoc'.

Engine No 1236.

Built 1927.



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SKETCH OF SHAFT 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

No. of Boilers

Worked by Main or Independent Engines?

Single or Double-ended

No. of Tubes in each

Type of Tubes

Date when first approved

Approved Working Pressure

Hydraulic Test Pressure

Date of Hydraulic Test

When Safety Valves set

Pressure at which Valves open

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Drafting

Can Boilers be worked separately?

Material of Plates

Thickness of Plates

Stays

Rivets

Tubes

Discharge Internal Diam. of Boilers

Length

Space Port of H. boiler

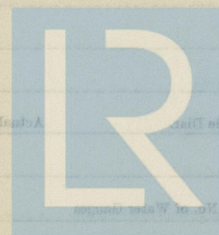
Grate

Notes on Boilers

Notes on Boilers

Notes on Boilers

Notes on Boilers



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BOILERS

Works No. 1354.

No. of Boilers Two. Type Cylindrical Multitubular.

Single or Double-ended Single-ended.

No. of Furnaces in each Two.

Type of Furnaces Deighton & Co. Simplex.

Date when Plan approved

Approved Working Pressure 180 lbs. sq. in.

Hydraulic Test Pressure 320 lbs. sq. in. Ballast pump.

Date of Hydraulic Test 17.4.29

" when Safety Valves set 185 lbs. sq. in. 29.4.29

Pressure at which Valves were set none taken 185 lbs. sq. in.

Date of Accumulation Test none taken

Maximum Pressure under Accumulation Test ✓

System of Draught Howdens forced draught. C.A.

Can Boilers be worked separately? Yes.

Makers of Plates David Colville & Co. Scotland

" Stay Bars ✓

" Rivets Rivet, Bolt & Nut Coy.

" Furnaces Deighton & Co. Leeds.

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



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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 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

Diagrams of Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Stays

Diagrams of Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Walls Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Stays

Diagrams of Stays Approved

" " in Boilers

Material "

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

Thickness of Combustion Chamber Walls

No. of Stays over each Wing Chamber

" " Centre

Depth and Thickness of Stays

Material of Stays

No. of Stays in each

No. of Stays in each

No. of Stays in each

No. of Stays in each



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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 O.O. Sides

Diar. " " Approved

Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in O.O. Backs

Diar. " " Approved

Threads per Inch

" " " in Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside O.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

Greatest Top Diar.

Height

Height of Boiler Crown above Fire Grate

Is Boiler Crown Flat or Dished?

Internal Radius of Dished Ends

Thickness of Plates

Description of Stays in Boiler Crown

Diar. of Lower Boilers

Pitch

Height of Firebox Crown above Fire Grate

Is Firebox Crown Flat or Dished?

Internal Radius of Dished Crown

Thickness of Plates

No. of Crown Stays

Diar.

Internal Diar. of Firebox at Top

Bottom

Thickness of Plates

No. of Water Tubes

Top Diar.

Material of Water Tubes

Size of Manhole in Shell

Description of Combustion Chamber

Leading Brackets each Boiler

Girth Bolts

SUPERHEATERS.

Description of Superheaters

Water Heated?

What system are employed for superheating?
 Are superheaters located in front of or behind the boiler?
 No. of Safety Valves on each superheater.
 Size of Safety Valves.



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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			
Diarr. 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	Diarr.	Material	
External Diarr. of Firebox at Top	Bottom	Thickness of Plates	
No. of Water Tubes	Ext. Diarr.	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	Diarr.
Are " " fitted with Easing Gear?	
Date of Hydraulic Test	Test Pressure
Date when Safety Valves set	Pressure on Valves

MAIN STEAM PIPES.



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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	25.4.29.		
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			

LIST OF EVAPORATORS.

No.	Type	Material	Working Pressure	Date of Test of Safety Valves under Steam
1	Horizontal	Steel	150 lbs.	25.4.29.
2	Vertical	Steel	150 lbs.	25.4.29.

FEED WATER HEATERS.

No.	Type	Material	Working Pressure	Date of Test of Safety Valves under Steam
1	Horizontal	Steel	150 lbs.	25.4.29.
2	Vertical	Steel	150 lbs.	25.4.29.

FEED WATER FILTERS.

No.	Type	Material	Working Pressure	Date of Test of Safety Valves under Steam
1	Horizontal	Steel	150 lbs.	25.4.29.
2	Vertical	Steel	150 lbs.	25.4.29.



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EVAPORATORS.

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

FEED WATER HEATERS.

No.	One	Type	Exhaust Steam surface.	@
Makers	Hocking.			
Working Pressure	180 lb	Test Pressure	Coils 450 lb Body 50 lb	Date of Test 7.3.29.

FEED WATER FILTERS.

No.	One.	Type	Pressure.	Size	@
Makers	Hy Watson & Sons.				
Working Pressure	180 lb	Test Pressure	450 lb	Date of Test	11.4.29.

LIST OF DONKEY PUMPS.

Same as John O McHellar.				
Eng No 1324. Built 1929.				



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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	" Propellers	" Propeller Blades
" Boiler Tubes	" Condenser Tubes	" Condenser Ferrules

OTHER ARTICLES OF SPARE GEAR:—

REFRIGERATORS.

No. of Machines Capacity of each No. of Cylinders or Bore
 Makers Make Drawing Valve Valve Chest
 Description Valve Valve Valve Pump Valve
 L.P. Piston Rings L.P. Piston Rings L.P. Piston Rings
 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	Switzerland	100	10	10
Capacity	91	110	300	
Current Alternating or Continuous	Continuous			
Single or Double Wire System	Double wire			
Position of Dynamo	On Steering engine platform			
Main Switch Board	On lower platform starboard side			
No. of Circuits to which Dynamo is connected in Main Machine Room	Four			
Particulars of Main Circuit—				
Circuit	Machine Room	Machine Room	Machine Room	Machine Room

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



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

Particulars of these Circuits	Current in Amperes	Size of Wires in Square Inches	Material of Wires	Material of Connections	Material of Terminals	Material of Insulation	Material of Enclosure

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.

S.W.G., Largest, No.

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?

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? *Yes*What does the Resistance amount to? *400,000*

Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter *Yes*Date of Trial of complete Installation *29.4.29*

Duration of Trial

*6 hours.*Have all the requirements of Section 42 been satisfactorily carried out? *Yes*

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GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans? *Yes*

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

Surveyor. *✓*

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

Has the Installation Extension over the whole system been tested?

What does the Resistance amount to?

Is the Installation supplied with a Forewater?

as Amperes Main

Date of Trial of complete Installation

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

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.

as ascertained by ^{me} from personal examination

"Rockwell"

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,

Jack 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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