

No. 2280

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2253 No. in Register Book 3634

JOHN A. FRANCE.

S.S. "Skarnwell".

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

Works No. 1350.

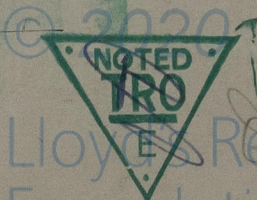
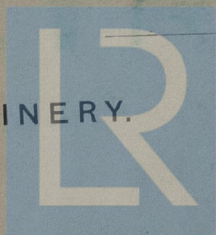
Makers of Main Boilers Swan Hunter & W.R. Ltd.

Works No. 1352.

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~~ ~~Twin Quadruple~~ Screw Steamer

"Starwell".

Official No. 161518

Port of Registry Newcastle-on-Tyne.

Registered Owners

The Welland Steamships Co. Ltd.

Engines Built by

Swan Hunter & W.R. Ltd

at

Walker.

Main Boilers Built by

Swan Hunter & W.R. Ltd.

" at

Walker.

Donkey "

None.

at

Date of Completion

29.4.29.

First Visit

10.11.28.

Last Visit

29.4.29.

Total Visits

50.

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RECIPROCATING ENGINES.

Works No. 1350. 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"* 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 L.P. " *Eric Valve.*
 2nd L.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 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

Piston " "

Crossheads,

Connecting Rods, Finished by

Piston " "

Crossheads,

Date of Harbour Trial

" Trial Trip

Trials run at

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

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

Pressure in 1st L.P. Receiver,

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.

Estimated Speed

This Machinery is a duplicate of that numbered 1324 and fitted in No. 1369. s/s "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

" 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 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

DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets

Type of Turbines employed

Description of Generator

Is the Propeller Shaft driven direct by the Motor or through Gearing?

Is Single or Double Reduction Gear employed?

No. of Motors driving Turbine Spindles

Description of Motor

Estimated Pressure per lineal inch

Diam. of 1st Reduction Pinion

" 1st " Wheel

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

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.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by



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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

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 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

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 9's Kingdoe
Engine 1236 built 1927.*

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No. of Blades each Propeller

Material of Blades

Boss

Diam. of Propellers

Pitch

Surface (each

S. ft.)

Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by

Material

,, Pins

,, Webs

Thrust Shafts

Intermed. ,,

Propeller ,,

Crank ,, Finished by

Thrust ,,

Intermed. ,,

Propeller ,,

John Rogerson.

Steel -

none.

John Rogerson.

Swan Hunter & W.R. Ltd.

none

Swan Hunter & W.R. Ltd.

STAMP MARKS ON SHAFTS.

Crank shaft BC 532. J.L. 11.3.29.

Thrust shaft. BC. 532 J.L. 11.3.29.

Propeller shaft. BC. 532 J.L. 11.3.29.

SKETCH OF PROPELLER SHAFT.

See S/L "Kingdoc".

Engine No. 1236.

Built in 1927.

PUMPS, ETC. SKETCH OF SHAF

No. of Air Pumps *One.* Diar. Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps *One.* Diar. StrokeType of *" Dawson + Downie Simplex.*Diar. of *" Suction from Sea*

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

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?

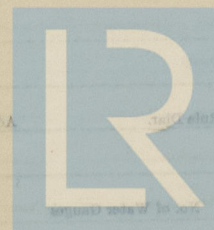
Are they placed so as to be easily accessible?

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

Works No. *1852*No. of Boilers *Two*Type of Boilers *Vertical*No. of Tubes in each *Two*Type of Tubes *Horizontal*Date when Plan approved *3.1.00*Approved Working Pressure *180 lbs.*Hydraulic Test Pressure *250 lbs.*Date of Hydraulic Test *10.6.00*" when Safety Valves set *18.4.00*Pressure at which Valves were set *185 lbs.*Date of Examination Test *18.4.00*Maximum Pressure under Examination Test *185 lbs.*System of Drafting *Vertical*One Boiler to worked separately? *No*Makers of Boilers *W. & A. of London*" *"*" *"*" *"*" *"*" *"*" *"*" *"*" *"*" *"*" *"*" *"*" *"*

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BOILERS

Works No. 1352.

No. of Boilers *Two* Type *Cylindrical Multitubular.*

Single or Double-ended *Single-ended.*

No. of Furnaces in each *Two.*

Type of Furnaces *Brighton*

Date when Plan approved *3.1.29.*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 lbs.*

Date of Hydraulic Test *10.3.29.*

" when Safety Valves set *24.4.29.*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *none taken.*

Maximum Pressure under Accumulation Test *✓*

System of Draught *Forced. C.A. Howdens system.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *Steel Co of Scotland.*

" Stay Bars *"*

" Rivets *River Bolt & Nut Coy.*

" Furnaces *Brighton Blue & Tube Coy. 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

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

Are the Water Gauge Fittings 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 Stays or Shell Ties in each Boiler

Plates in each Shell

Thickness of Shell Plates & Pressure

" " " "

Are the Rivets Iron or Steel?

Are the Longitudinal Stays fitted or Lap Joints?

Are the Butt Stays Single or Double?

Are the Double Butt Stays of equal width?

Thickness of outside Butt Stays

" " " "

Are Longitudinal Stays Hand or Machine Riveted?

Are they Single, Double, or Triple Riveted?

No. of Rivets in a Trip

Diam. of Rivet Holes

No. of Rows of Rivets in Outer Circumferential Stays

Are these Stays Hand or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Front and Circumferential Stays

Are these Stays Hand or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Front and Circumferential Stays

Are these Stays Hand or Machine Riveted?

Diam. of Rivet Holes

No. of Rows of Rivets in Front and Circumferential Stays

Are these Stays Hand or Machine Riveted?

Diam. of Rivet Holes



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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

Diam. of Rivet Holes Pitch

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

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. 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 O.O. Tops

Threads per Inch

Diar. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Ends Approved

" " in Boilers

Pitch of Screwed Stays in O.O. Ends

Threads per Inch

Diar. " Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Heads Approved

" " in Boilers

Pitch of Screwed Stays in O.O. Heads

Threads per Inch

Diar. " Approved

" " 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

" " " " " " " "

Depth and Thickness of Girders

Material of Girders

No. of Brakes 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 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	Height of Boiler Crown above the Base	Are Boiler Crowns Flat or Dished?	Internal Radius of Dished Boilers	Thickness of Plates	Description of Stems in Boiler Crowns	Diam. of Rivet Holes	Pitch of Rivet Holes	Height of Rivet Box Crown above the Base	Are Rivet Box Crowns Flat or Dished?	External Radius of Rivet Box Crowns	Thickness of Plates	Diam.	No. of Crown Ribs	External Diam. of Rivet Box at Top	Bottom	Thickness	No. of Water Tubes	Material of Water Tubes	Size of Holes in Shell	Dimensions of Compensation Ring	Height Rivet Box and Boiler	Gross Surface
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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



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MAIN STEAM 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

3.
Steel.
Seamless
3½"
1"
4
Screwed.
20.4.29.
540lb/sq. in.

STEAM EVAPORATORS.

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 HEATERS.

FEED WATER FILTERS.



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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 Surface* @
Makers *Hocking*
Working Pressure *180 lbs.* Test Pressure *Coils 450 lbs.* Date of Test *18.2.29.*
body 50 "

FEED WATER FILTERS.

No.	One	Type	pressure	Size	4
Makers	Hy Watson & Sons.				
Working Pressure	180 lb	Test Pressure	450 lb	Date of Test	27. 3. 29.

LIST OF DONKEY PUMPS.

Same as "John O. McKellar"
Eng No 132x Built 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.

[illegible]

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

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On Main Switch Board, to Cables of Main Circuits

On Aug.	"	"	each Auxiliary Circuit
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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.

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

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? 10 414266 avig Jon

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 ?

Ohms.

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?

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. *"Starwell"*

as ascertained by *me* from personal examination

John L. d. g.
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

Fees advised

Fees paid



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Secretary.

GENERAL INFORMATION

1. Name of the person or organization making the report: *John L. ...*

2. Date of the report: *1952*

3. Title of the report: *...*

4. Name of the person or organization receiving the report: *...*

5. Name of the person or organization making the report: *...*

6. Name of the person or organization making the report: *...*

7. Name of the person or organization making the report: *...*

8. Name of the person or organization making the report: *...*

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