

N

No. 2206

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 2180 No. in Register Book 3544

GEORGE M. KARL

S.S. "Scott Misener"

Makers of Engines Swan, Hunter & W.R. Rd.

Works No. 1290

Makers of Main Boilers Swan, Hunter & W.R. Rd.

Works No. 1290

Makers of Donkey Boiler None fitted.

Works No. ✓

MACHINERY.

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004541-004547-0199

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No. .... No. in Register Book .....

Received at Head Office *22<sup>nd</sup> August 1928*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the *Single Triple* Screw *Steamer* "SCOTT MISENER"

Official No. *149475* Port of Registry *Newcastle*

Registered Owners *Swan Hunter & Wigham Richardson*

Engines Built by *Swan Hunter & W.R. Old*

at *Walker-on-Tyne*

Main Boilers Built by *Swan Hunter & W.R. Old*

at *Walker-on-Tyne*

Donkey " "

at

Date of Completion *16<sup>th</sup> July 1928*

First Visit *27-9-27*

Last Visit *16-7-28*

Total Visits *48*

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## RECIPROCATING ENGINES.

Works No. *1590* No. of Sets *One* Description *Same as 1536 - 1558. 3/8 Kingdoc Cartierdoc*

No. of Cylinders each Engine *Three* No. of Cranks *Three*

Diams 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?

" " " each Receiver?

Type of H.P. Valves,

1st I.P. "

2nd I.P.,

L.P. "

" Valve Gear

" Condenser

Cooling Surface

sq. ft.

Diameter of Piston Rods (plain part)

Screwed part (bottom of thread)

Material "

Diam. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diam. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

"

"

"

" Main Bearings

Lengths

" Bolts in each

Diam. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diam.

No. of Metal Chocks

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?

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

Pressure in 1st I.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

*John Spencer & Sons*

*Swan Hunter*

*14<sup>th</sup> July 1928.*

*16<sup>th</sup> July 1928.*

*Off R. 24ue.*

*706*

*Revs. per min. 88 1/2*

*169 lbs., 2nd I.P., 52 lbs., L.P., 9 lbs., Vacuum, 26 ins.*

*8.8*

*✓*

*✓*

*Revs. per min. ✓*



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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 Astern
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		Trial Trip	
Estimated Pressure per lineal inch			
Diam. of 2nd Reduction Pinion	} Width	Pitch of Teeth	
" 2nd " Wheel		Speed on Trial	
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	Estimated Speed	
" " " " " "	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 POSITIONED MACHINERY.

No. of Turbo-Generating Sets	Capacity of each
Type of Turbines employed	Description of Generators
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
" 1st " Wheel	
Estimated Pressure per lineal inch	
Diam. of 2nd Reduction Pinion	} Width
" 2nd " Wheel	
Estimated Pressure per lineal inch	
Revs. per min. of Generators at Full Power	
Total Shaft Horse Power	
Date of Harbour Trial	
Trials run at	
Speed on Trial	Propeller Revs. per min.
Turbine Spindles forged by	
Wheels forged or cast by	
Reduction Gear Shafts forged by	
Wheels forged or cast by	



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## SHAFTING.

(Kingdoc) (Cartendoe)  
Same as 1236-58

Are the Crank Shafts Built or Solid?

No. of Lengths in each

One

Angle of Cranks

120°

Diar. by Rule

8.76

Actual

8 3/8

In Way of Webs

8 3/8

" of Crank Pins

8 3/8

Length between Webs

8 1/4"

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

Four

Diar. of Thrust Shafts at bottom of Collars

8 3/8"

No. of Collars

4

" " Forward Coupling

8 3/8"

At Aft Coupling

8 3/8"

Diar. of Intermediate Shafting by Rule

7.858

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

8.878

Actual

9' 10 1/8"

At Couplings

9 1/8"

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 5/5 Kingdoc 1236



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No. of Blades each Propeller

Four

Fitted or Solid?

Fitted

Material of Blades

Cast Iron

Boss

Cast Iron

Diam. of Propellers

12' 3"

Pitch

10' 9"

Surface (each

48

S. ft.)

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

Crank Shafts Forged by

J. Spencer

Material

I. S.

Pins

Webs

Dr. &amp; Co. of Scotland

R. Steel.

Thrust Shafts

J. Spencer

I. S.

Intermed.,

Propeller

Crank Finished by

Swan Hunter

Thrust

Intermed.,

Propeller

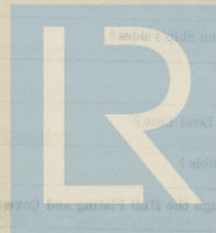
## STAMP MARKS ON SHAFTS.

Crank Shaft  
Thrust Shaft  
Propeller Shaft  
Piston & Conn. rods  
ECC & Slide rods.

BC  
10488  
J. L.  
3.4.28.

## SKETCH OF PROPELLER SHAFT.

Same as 1236-758.  
8 1/2 " Kingdoe "



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Same as 1236 &amp; 1258.

## PUMPS, ETC.

No. of Air Pumps

One

Diar.

14"

Stroke

17"

Worked by Main or Independent Engines?

No. of Circulating Pumps

One

Diar.

12"

Stroke

18"

Type of

Vertical simplex.

Diar. of

Suction from Sea

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

Diar.

What other Pumps can circulate through Condenser?

No. of Feed Pumps on Main Engine

2

Diar.

2 1/4"

Stroke

17"

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?

No. of Bilge Pumps on Main Engine

2

Diar.

2 1/2"

Stroke

17"

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

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges?

Are all Bilge Suctions fitted with Roses?

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?

1/2 Kingdoe + Carterdoe

## BOILERS

Works No.

No. of Boilers

Boilers or Double-ended

No. of Furnaces in each

Type of Furnaces

Date when Plan 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?

Makers of Plates

Makers of Tubes

Stay Bars

Rivets

Furnaces

Greatest Internal Diam. of Boilers

Square Foot of Heating surface each boiler

Grate

No. of Water Cocks

No. of Safety Valves fitted with Ratchet Cocks

No. of Blow-off Cocks

Test Cocks



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## BOILERS.

Works No. 1290.  
 No. of Boilers Two Type Same as 1236 & 1258. ("Kingdoe")  
 Single or Double-ended Single  
 No. of Furnaces in each Two  
 Type of Furnaces Leighton  
 Date when Plan approved 1-11-76.  
 Approved Working Pressure 180 lbs.  
 Hydraulic Test Pressure 370.  
 Date of Hydraulic Test 29th May 1908.  
 " when Safety Valves set 185 lbs.  
 Pressure at which Valves were set 185 lbs.  
 Date of Accumulation Test none taken  
 Maximum Pressure under Accumulation Test ✓  
 System of Draught Howdens Forced.  
 Can Boilers be worked separately? Yes.  
 Makers of Plates Steel Co. of Scotland.  
 " Stay Bars ..  
 " Rivets Rivet Ball & Nut Co.  
 " Furnaces Broomside Blv. Wks. Motherwell  
 Greatest Internal Diam. of Boilers 10' 1 3/8"  
 " " Length " 10' 9 1/2"  
 Square Feet of Heating Surface each Boiler 1068 ft.  
 " " Grate " 32 ft.  
 No. of Safety Valves each Boiler 2 Rule Diam. Actual 2" (high lift).  
 Are the Safety Valves fitted with Easing Gear? Yes  
 No. of Pressure Gauges, each Boiler One No. of Water Gauges One  
 " Test Cocks " 3. " Salinometer Cocks One



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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

*Supports  
by pipes  
Cocks  
Back and plate*



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Are the Stay Bolts or Stays in the End Plates or Stays of Stays?  
 Thickness of End Plates in Steam Space Approved

Are the Water Space Stays or Stays in Boilers  
 " " " " " in Boilers

Pitch of Steam Space Stays

Diam. " " " " Approved Threads per Inch

No. of Stays of Stay Bolts in each Space

" " " " in Boilers

Material of " " "

How are Stays Secured?

Diam. and Thickness of Loose Washers on End Plates

Are the Rivets Riveted " " "

Are the Longitudinal Stays or Stays in  
 Width " " Doubling Strips " "

Are the Stay Bolts Riveted or Riveted?

Are the Double End Plates Approved  
 Thickness of Middle Back End Plates Approved

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " "

Diam. 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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Diag. 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 Diag. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diag. 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.C. Tops

Threads per Inch

Diag. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Sides Approved

" " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diag. " Approved Threads per Inch

" " in Boilers

Material "

Thickness of Combustion Chamber Backs Approved

" " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diag. " Approved Threads per Inch

" " in Boilers

Material "

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

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 Stays in each

Pitch of Screwed Stays

Pitch of Lower Manholes



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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  
Greatest Int. Diam.  
Height of Boiler Crown above Fire Grate  
Are Boiler Crowns Flat or Dished?  
Internal Radius of Dished Ends  
Description of seams in boiler crowns  
Dist. of Rivet Heads  
Width of Overlap  
Height of Firebox Crown above Fire Grate  
Are Firebox Crowns Flat or Dished?  
External Radius of Dished Crowns  
No. of Crown stays  
Diam.  
Material  
Thickness of Plates  
Bottom  
External Diam. of Firebox at Top  
No. of Water Tubes  
Dist. Diam.  
Thickness  
Material of Water Tubes  
Dist. of Manholes in Shell  
Dimensions of Compensating Ring  
Heating surface, each Boiler  
Grate surface

## 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	3		
Material	Steel		
Brazed, Welded or Seamless	S. D.		
Internal Diam.	3 1/2"		
Thickness	7/8"		
How are Flanges secured?	Screwed		
Date of Hydraulic Test	5.4.28		
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			

## SUPERHEATERS

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. 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	" I.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
" Clr. "	" Clr. "	" Clr. "
" Crank Shafts	" Crank Pin Bushes	" Crosshead Bushes
" Propeller Shafts	" Propellers	" Propeller Blades
" Boiler Tubes	" Condenser Tubes	" Condenser Ferrules

OTHER ARTICLES OF SPARE GEAR:—

Same as 1236 & ~~1258~~

S. Kingdoe

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## REFRIGERATORS.

No. of Machines	Capacity of each	No. of Cylinders Cover Slides
Makers	Kind Working Valve	Valve Class
Description	Kind Working Valve	High Pump Valve
	L.P. Piston Rings	L.P. Piston Rings
	Spring	Spring
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		
Air Pump Discharge	Air Pump Valve	
Oil	Oil	Oil
Crack Valve	Crack Valve	Crack Valve
Propeller Valve	Propeller Valve	Propeller Valve
Water Valve	Water Valve	Water Valve
Name of Manufacturer of Machine		
Same as above 1888		

## 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, Bounding, 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.
Hold No. 1	41	38	10 min	
Hold No. 2	41	38	10 min	
Hold No. 3	41	38	10 min	
Hold No. 4	41	38	10 min	
Hold No. 5	41	38	10 min	
Hold No. 6	41	38	10 min	
Hold No. 7	41	38	10 min	
Hold No. 8	41	38	10 min	
Hold No. 9	41	38	10 min	
Hold No. 10	41	38	10 min	
Hold No. 11	41	38	10 min	
Hold No. 12	41	38	10 min	
Hold No. 13	41	38	10 min	
Hold No. 14	41	38	10 min	
Hold No. 15	41	38	10 min	
Hold No. 16	41	38	10 min	
Hold No. 17	41	38	10 min	
Hold No. 18	41	38	10 min	
Hold No. 19	41	38	10 min	
Hold No. 20	41	38	10 min	
Hold No. 21	41	38	10 min	
Hold No. 22	41	38	10 min	
Hold No. 23	41	38	10 min	
Hold No. 24	41	38	10 min	
Hold No. 25	41	38	10 min	
Hold No. 26	41	38	10 min	
Hold No. 27	41	38	10 min	
Hold No. 28	41	38	10 min	
Hold No. 29	41	38	10 min	
Hold No. 30	41	38	10 min	

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



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# PLANT NO. 11111111

No. of Dynamos to which current is sent  
No. of Dynamos to which current is sent  
No. of Dynamos to which current is sent  
No. of Dynamos to which current is sent  
No. of Dynamos to which current is sent

Description

No. of Dynamo Dynamos, each Machine

No. of Dynamos

No. of Dynamos

Description of Dynamos to which current is sent, including their size and whether worked by Independent Machines

on Independently

Description of Transmission

Foundation

Are there any other dynamos which are placed on or in the same building as the above? If so, give their number, size, and whether worked by Independent Machines

Special

Are all Dynamos, all Transformers, etc., well protected from fire and lightning?

Are all Dynamos, Transformers, etc., well protected from fire and lightning?

Are Transformers, Transformers, etc., well protected from fire and lightning?

Date of this water-Working Commission

## ELECTRIC LIGHTING.

Installation Fitted by

*Swan Hunter & Co. Ltd.*

No. and Description of Dynamos

*One compound wound*

Makers of Dynamos

*Sunderland Forge.*

Capacity

„

*91.*

Amperes, at

*110* Volts.

*380*

Revolts. per Min.

Current Alternating or Continuous

*Continuous.*

Single or Double Wire System

*Double.*

Position of Dynamos

*Lower platform Starb Side  
near dynamo.*

„ Main Switch Board

No. of Circuits to which Switches are provided on Main Switch Board

Particulars of these Circuits:—

*Four!*

Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
----------	-------------------	---------------	-------------------------	--------------------	------------------	----------------------------	---------------------------------

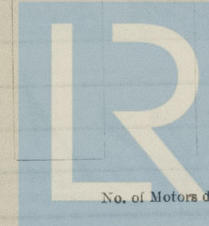
*Same as 1236-4  
15  
1236-4  
1236-4*

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters



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

Particulars of these Circuits:-	No. of Circuits to which switches are provided on Main Switch Board	Main Switch Board	Location of Dynamometer	Single or Double Wire System	Current Alternating or Continuous	Capacity	No. of Amps. at 110 Volts	Retard. per Min.

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, &amp;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?

What does the Resistance amount to? 810,000

Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation

16. 7. 28

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.

Are the Plans of the

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

Has the Installation Resistance over the whole system been tested?

What does the Resistance amount to?

Is the Installation supplied with a 7/16 inch?

an Airless Water

Date of Trial of complete Installation

Have all the requirements of Section 11 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. *"Scott Wisener"*

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,

*Walter King*  
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the 22<sup>ND</sup> AUGUST, 1928

Fees advised

Fees paid



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Secretary.

Donkey Browsers.

140/1

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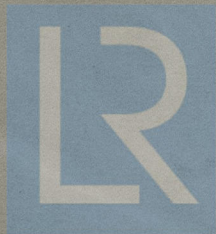
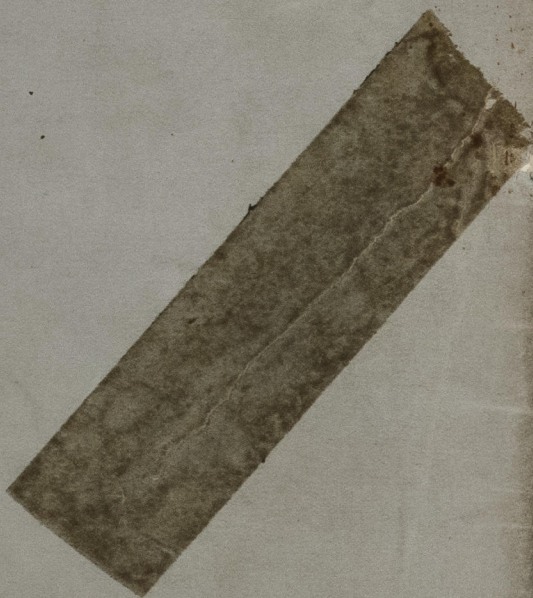
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