

No. 2238

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2248 No. in Register Book 3663

" K O S V "

S.S.

Makers of Engines

Smiths Dock Co. Ltd.

Works No.

333

Makers of Main Boilers

Blair & Co (1926) Ltd.

Works No.

C 195

Makers of Donkey Boiler

Works No.

MACHINERY.



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44 38

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ ~~Twin Quadruple~~ Screw *Whalley*

HOS. V

Official No.

Port of Registry *Candejoid.*

Registered Owners

Woolfanger & Schepel - Rossmos AP.

Engines Built by

Cumtke & Co. Ltd.

at

South Bank-on-Sea.

Main Boilers Built by

Blair & Co (1926) Ltd.

at

Stockton-on-Sea.

Donkey

at

Date of Completion

6-29

First Visit

25-2-29

Last Visit

11-6-29

Total Visits *30*

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RECIPROCATING ENGINES.

Works No. **333** No. of Sets **1** Description **Light expansion, S.C. Berkes.**

No. of Cylinders each Engine **3** No. of Cranks **3**
 Diars of Cylinders **14"-23"-39"** Stroke **24"**
 Cubic feet in each L.P. Cylinder **16.6**
 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

Diameter of Piston Rods (plain part)

Material "

Diars. of Connecting Rods (smallest part)

" Crosshead Gudgeons

No. of Crosshead Bolts (each)

" Crank Pin " "

" Main Bearings

" Bolts in each

" Holding Down Bolts, each Engine

Cooling Surface sq. ft.

Screw part (bottom of thread)

Material

Material

Material

"

Material

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

Revs. per min.

Brown Bros.

Smiths & Co.

4-6-29.

11-6-29.

In North Sea.

yes.

908.

Revs. per min. 153

62

lbs., 2nd I.P.,

lbs., L.P., 11

lbs., Vacuum, 25" ins.

no chud taken



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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 results were not obtained give the following estimate		
" " L.P. " "	Date		
" " 1st Reduction Shaft	Holliday's estimate I.H.P.		
" " 2nd " "	Estimated Power		
" " 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 BOILER ROOM MACHINERY.

No. of Turbo-Generating Sets	Capacity of each	
Type of Turbine 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 " "		
Total Shaft Horse Power		
Date of Harbour Trial		
" Trial Trip		
Trials run at		
Speed on Trial	Knots.	Propeller Revs. per min.



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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 Revs. per min.

S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

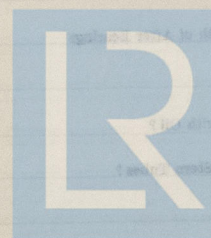
Turbine Spindles forged by

" 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?

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

No. " Rings

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

" " Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafts 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?

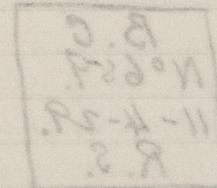
Are Means provided for lubricating the After Bearings with Oil?

" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.

STAMP MARKS ON SHAFTS.



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No. of Blades each Propeller

Material of Blades

Diam. of Propellers

Coefficient of Displacement of Vessel at Moulded Depth

Crank Shafts Forged by

Pins

Webs

Thrust Shafts

Intermed.,

Propeller

Crank Finished by

Thrust

Intermed.,

Propeller

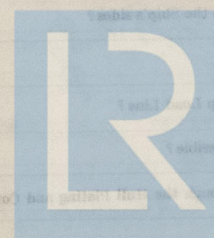
Same as K O S. I
Life Long Coy. Material

STAMP MARKS ON SHAFTS.

Crank Thrust
Shafts:—

B. C.
Nº 659.
11-4-29.
R. S.

SKETCH OF PROPELLER SHAFT.



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PUMPS, ETC.

No. of Air Pumps Diar. Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps Diar. Stroke

Type of "

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 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?

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?

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?

BOILERS

Works No.

No. of Boilers Type

Boilers or Double-ended

No. of Tubes in each

Type of Tubes

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 Tubes

Steel Bars

Hulls

Tubes

Tubes Internal Dia. of Boilers

Length

Boilers of limited

Boilers

Boilers of limited

Boilers of limited

Boilers of limited

Boilers of limited



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BOILERS.

Works No.

No. of Boilers

1

Type

C. 195.
Cylindrical multitubular
single.

Single or Double-ended

No. of Furnaces in each

3

Type of Furnaces

Brighton

Date when Plan approved

20-11-28

Approved Working Pressure

200 lbs.

Hydraulic Test Pressure

350 "

Date of Hydraulic Test

18-5-29.

" when Safety Valves set

4-6-29.

Pressure at which Valves were set

206 lbs.

Date of Accumulation Test

4-6-29.

Maximum Pressure under Accumulation Test

206 lbs.

System of Draught

CA.

Can Boilers be worked separately?

ybs.

Makers of Plates

James Dunlop & Co.

" Stay Bars

J. Cobble & Sons & Co.

" Rivets

Blair & Co.

" Furnaces

Bardmore & Co.

Greatest Internal Diam. of Boilers

14'-0"

" " Length "

11'-6"

Square Feet of Heating Surface each Boiler

2292 sq

" " Grate " "

55.7 sq

No. of Safety Valves each Boiler

2

Rule Diam.

Actual

2 1/2"

Are the Safety Valves fitted with Easing Gear?

ybs.

No. of Pressure Gauges, each Boiler

2

No. of Water Gauges

1

" Test Cocks

3

" Salinometer Cocks

1

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

Are the Water Gauge Pipes 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 Strokes of Steam Piston in each Boiler

Plates in each Stave

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Stems Butt or Lap Joints?

Are the Butt Joints Single or Double?

Are the Double Butt Joints of equal width?

Thickness of outside Butt Straps

inside

Are Longitudinal Stems Head or Machine Riveted?

Are they Single, Double, or Triple Riveted?

No. of Rivets in a Lap

Diam. of Rivet Hole

No. of Rows of Rivets in Centre of longitudinal Stems

Are these Stems Head or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Transverse longitudinal Stems

Are these Stems Head or Machine Riveted?

Diam. of Rivet Hole

No. of Rows of Rivets in Head and Transverse Stems

Are these Stems Head or Machine Riveted?

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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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Are the Water Gauge Glass direct to the Water Space or connected by Tube?
 Thickness of End Plates in Steam Space Approved

Are the Water Gauge Glass direct to the Water Space or connected by Tube?

" " " " " in Boilers

Are the Pipes connected to the Water Space or to the Boilers?
 Pitch of Steam Space Stays

Are the Pipes connected to the Water Space or to the Boilers?

Diam. " " " " Approved Threads per Inch

Are the Pipes connected to the Water Space or to the Boilers?

" " " " " in Boilers "

Are the Pipes connected to the Water Space or to the Boilers?

Material of " " "

Are the Pipes connected to the Water Space or to the Boilers?

How are Stays Secured?

Are the Pipes connected to the Water Space or to the Boilers?

Diam. and Thickness of Loose Washers on End Plates

Are the Pipes connected to the Water Space or to the Boilers?

" " Riveted " "

Are the Pipes connected to the Water Space or to the Boilers?

Width " " Doubling Strips "

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Thickness of Middle Back End Plates Approved

Are the Pipes connected to the Water Space or to the Boilers?

" " " " " in Boilers

Are the Pipes connected to the Water Space or to the Boilers?

Thickness of Doublings in Wide Spaces between Fireboxes

Are the Pipes connected to the Water Space or to the Boilers?

Pitch of Stays at " " "

Are the Pipes connected to the Water Space or to the Boilers?

Diam. of Stays Approved Threads per Inch

Are the Pipes connected to the Water Space or to the Boilers?

" " in Boilers "

Are the Pipes connected to the Water Space or to the Boilers?

Material "

Are the Pipes connected to the Water Space or to the Boilers?

Are Stays fitted with Nuts outside?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Thickness of Back End Plates at Bottom Approved

Are the Pipes connected to the Water Space or to the Boilers?

" " " " " in Boilers

Are the Pipes connected to the Water Space or to the Boilers?

Pitch of Stays at Wide Spaces between Fireboxes

Are the Pipes connected to the Water Space or to the Boilers?

Thickness of Doublings in " "

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Thickness of Front End Plates at Bottom Approved

Are the Pipes connected to the Water Space or to the Boilers?

" " " " " in Boilers

Are the Pipes connected to the Water Space or to the Boilers?

No. of Longitudinal Stays in Spaces between Furnaces

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?

Are the Pipes connected to the Water Space or to the Boilers?



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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.C. Tops

Same as "Rost"



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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
 Gross I.H.P. Dia.
 Height
 Height of Boiler Crown above Fire Grate
 Are Boiler Crowns Flat or Dished?
 Internal Radius of Dished Boilers
 Description of Booms in Boiler Crowns
 Width of Overlap
 Dia. of Fire Hole
 Height of Firebox Crown above Fire Grate
 Are Firebox Crowns Flat or Dished?
 Internal Radius of Dished Crowns
 Thickness of Plates
 Dia.
 No. of Crown Stays
 Internal Dia. of Firebox at Top
 Bottom
 Thickness
 No. of Water Tubes
 Material of Water Tubes
 Dia. of Manhole in Shell
 Dimensions of Combustion Ring
 Heating Surface each Boiler
 Gross Surface

SUPERHEATERS

Description of Superheaters
 Where situated?
 With Boilers are connected?
 Can superheaters be fitted on water boilers and working?
 No. of tubes in each superheater
 Material of tubes
 Dia. of tubes
 Length of tubes
 Distance between tubes
 Heating Surface



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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

1
Copper.
S. D.
4 1/2"
1/2 W.S.
braced.
28-6-29.
400 lbs.

LIST OF ROTARY VALVES

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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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.	Type	
Makers		
Working Pressure	Test Pressure	Date of Test

FEED WATER FILTERS.

No.	Type	Size
Makers		
Working Pressure	Test Pressure	Date of Test

LIST OF DONKEY PUMPS.

Same as "HOS. I"

Feed Pump Valves	Feed Pump Valves	Feed Pump Valves
L.P. Piston Rings	L.P. Piston Rings	L.P. Piston Rings
Valve Springs	Valve Springs	Valve Springs
Feed Check Valves	Feed Check Valves	Feed Check Valves
Valve Springs	Valve Springs	Valve Springs
Air Pump Valves	Air Pump Valves	Air Pump Valves
Oil	Oil	Oil
Crack Lin Bolts	Crack Lin Bolts	Crack Lin Bolts
Propeller Shafts	Propeller Shafts	Propeller Shafts
Condenser Tubes	Condenser Tubes	Condenser Tubes



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3	"	Feed Pump Valves	"
gs	"	I.P. Piston Rings	"
gs	"	" Springs	"
	"	Fire Bars	"
	"	Connecting Rods	"
	"	Air Pump Buckets	"
	"	Cir.	"
	"	Crank Pin Bushes	"
	"	Propellers	"

OTHER ARTICLES OF SPARE GEAR:—

ELECTRIC LIGHTING.

No. of Dynamos
 to each
 lamp
 or
 group
 of
 lamps

Design of
 lamp
 or
 group
 of
 lamps

Capacity of
 lamp
 or
 group
 of
 lamps

No. of
 lamps
 or
 group
 of
 lamps

No. of
 lamps
 or
 group
 of
 lamps

Description

No. of Dynamos, Collection, and Machine

No. of Dynamos

No. of Dynamos

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

No. of Dynamos

System of Installation

Description

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

Particulars of Dynamos to be connected with Dynamos and their own relative work by Reorganizing Machine

Date of the last working

ELECTRIC LIGHTING.

Installation Fitted by

R. Pickersell Houss.

No. and Description of Dynamos

1. Compound wound,
Bundell and George Hughes.

Makers of Dynamos

Capacity

40

Amperes, at

110

Volts, 350

Revs. per Min.

Current Alternating or Continuous

Continuous.

Single or Double Wire System

Position of Dynamos

Main Switch Board

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

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required, Amperes.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
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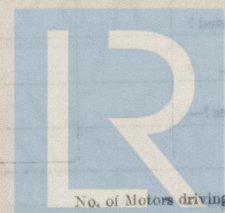
same as "HO"

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

Location of Dynamometer	Single or Double Wire System	Current Altering or Continuation	Capacity	Amperes at 110 Volts	Revolutions per Min.
				40	350

Are Cut-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 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.

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 Huit 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?

Ohms,

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation

11-6-29.

Duration of Trial

6 hours.

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

ylo.



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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 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

J. O. S. II
J. O. Stephenson

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

Fees—

MAIN BOILERS.

		£	s.	d.
H.S.	<i>2292</i> Sq. ft.	:	:	:
G.S.	<i>55' 4"</i> "	:	:	:

DONKEY BOILERS.

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

ENGINES.

L.P.O.	<i>16' 6"</i> Cub. ft.	:	:	:
	£	:	:	:

Testing, &c. ...	:	:	:	:
	£	:	:	:

Expenses ...	:	:	:	:
Total ...	£	:	:	:

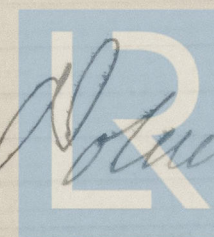
It is submitted that this Report be approved,

Joe 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.

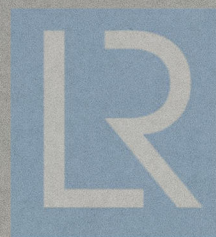
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