

No. 1585

112 1310

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1459 No. in Register Book 2612

GRANGE TOTT

S.S.

Triandy Tower

Makers of Engines

Plenty Sons (Newbury)

Works No. 2345

Makers of Main Boilers

Riley Bros. Ltd.

Works No.

Makers of Donkey Boiler

Works No.

MACHINERY.



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005107-005117-0247

No. 1585

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

S.S.

Makers of Engines *Plenty & Son Ltd.*

Works No. 2375

Makers of Main Boilers

Works No.

Makers of Donkey Boiler

Works No.

MACHINERY.



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0247

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office *12th September 1922*

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

Official No. *143530* Port of Registry *Cardiff*

Registered Owners *The Mandy Shipping Co. Ltd.*

Engines Built by *Plenty & Son Ltd.*

at *Newbury*

Main Boilers Built by *Riley Bros. Ltd.*

at *Stockton*

Donkey " "

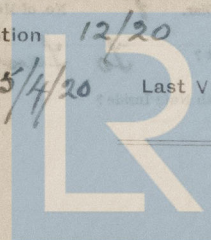
at

Date of Completion *12/20*

First Visit *15/4/20*

Last Visit *1/12/20*

Total Visits *12*



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RECIPROCATING ENGINES.

Works No. 2375

No. of Sets one

Description

Inverted Triple

expansion surface cooling marine type.

No. of Cylinders each Engine

3

No. of Cranks

3

Diars. of Cylinders

16 1/2" - 27" - 44"

Stroke

30

Cubic feet in each L.P. Cylinder

26.4

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr?

yes

" " " each Receiver?

yes

Type of H.P. Valves,

piston

" 1st I.P. "

Andrew + Cameron Balanced Slide

" 2nd I.P. "

" L.P. "

Double ported slide

" Valve Gear

Double eccentric Twin Bar Links

" Condenser

Circular - Steel Cooling Surface 1050 sq. ft.

Diameter of Piston Rods (plain part)

4 1/4"

Screwed part (bottom of thread)

2.859

Material

Steel

Diar. of Connecting Rods (smallest part)

4 1/4"

Material

Steel

" Crosshead Gudgeons

4 3/4"

Length of Bearing

9"

Material

"

No. of Crosshead Bolts (each)

4" Diar. over Thrd.

1 3/4"

Thrds. per inch

5

Material

Steel

" Crank Pin "

2

"

2 1/2"

"

4

"

"

" Main Bearings

6

Lengths

9 3/4" each

"

"

" Bolts in each

2

Diar. over Thread

2 1/2"

Threads per inch

4

Material

"

" Holding Down Bolts, each Engine

44

Diar.

1"

No. of Metal Chocks

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

To Tank Top

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

If not, how are they fitted?

Connecting Rods, Forged by

Yorkshire Engine Co.

Piston

"

Mitchell Shackleton & Co.

Crossheads,

"

do

Connecting Rods, Finished by

Plenty & Son Ltd.

Piston

"

do

Crossheads,

"

do

Date of Harbour Trial

25th November 1920

" Trial Trip

1st December 1920

Trials run off Brightlingsea

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

Yes.

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

993.5

Revs. per min.

92.7

Pressure in 1st I.P. Receiver,

165

lbs., 2nd I.P.,

50

lbs., L.P.,

9

lbs., Vacuum,

23

ins.

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.

750

Revs. per min.

95

Estimated Speed

10 kts.



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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?

Revs. per min. of H.P. Turbines at Full Power

"	"	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

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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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

Revs. per min. of Generators at Full Power

" " Motors "

" " Propellers "

Total Shaft Horse Power "

Date of Harbour Trial

" Trial Trip

Trials run at

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



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built

No. of Lengths in each

three

Angle of Cranks

120°

Diar. by Rule

8.44"

Actual

8 7/8"

In Way of Webs

9 3/8"

" of Crank Pins

8 7/8"

Length between Webs

10"

Greatest Width of Crank Webs

1'-4 1/4"

Thickness

6"

Least

1'-1"

"

6"

Diar. of Keys in Crank Webs

Length

—

" Dowels in Crank Pins

1 1/2"

Length

3 3/8"

Screwed or Plain

Plain

No. of Bolts each Coupling

6

Diar. at Mid Length

2 1/8"

Diar. of Pitch Circle

15 1/4"

Greatest Distance from Edge of Main Bearing to Crank Web

3 1/8"

Type of Thrust Blocks

*Horse shoe**adjustable shoes*

No. " Rings

5"

Diar. of Thrust Shafts at bottom of Collars

8 7/8"

No. of Collars

5

" " Forward Coupling

8 7/8"

At Aft Coupling

8 7/8"

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

9 1/8"

At Couplings

8 7/8"

Are Propeller Shafts fitted with Continuous Brass Liners?

yes

Diar. over Liners

10 1/8" & 10 3/16"

Length of After Bearings

3'-3"

Of what Material are the After Bearings composed?

Lignum vitae

Are Means provided for lubricating the After Bearings with Oil?

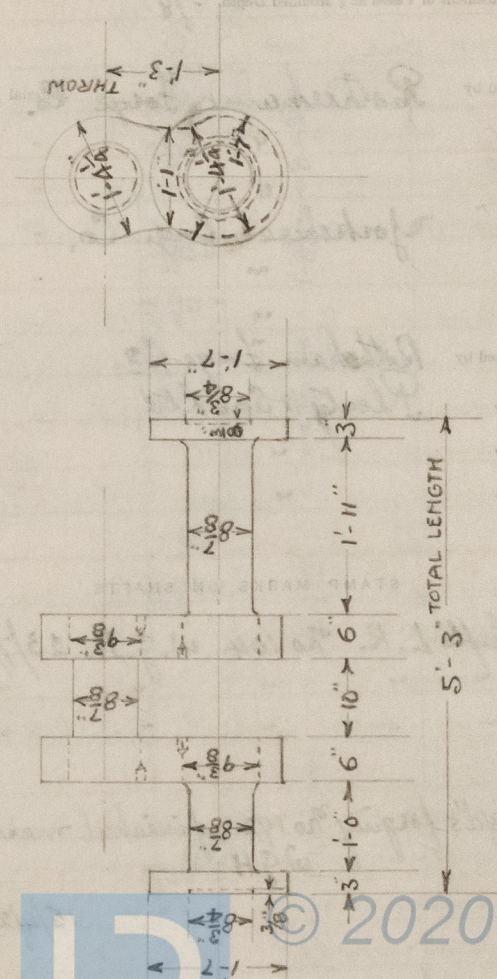
no

" " to prevent Sea Water entering the Stern Tubes?

no

If so, what Type is adopted?

SKETCH OF CRANK SHAFT.



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No. of Blades each Propeller *4* Fitted or Solid? *Solid*
 Material of Blades *Cast Iron* Boss *Cast Iron*
 Diam. of Propellers *11'-0"* Pitch *13'-0"* Surface (each) *40* S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth *-78*

Crank Shafts Forged by	<i>Rotherham Forge Co.</i>	Material	<i>Steel</i>
" Pins "	<i>4</i>	"	<i>4</i>
" Webs "	<i>"</i>	"	<i>"</i>
Thrust Shafts "	<i>Yorkshire Eng. Co.</i>	"	<i>"</i>
Intermed., "	<i>"</i>	"	<i>"</i>
Propeller "	<i>"</i>	"	<i>"</i>
Crank " Finished by	<i>Rotherham Forge Co.</i>		<i>"</i>
Thrust " "	<i>Plenty & Son Ltd</i>		<i>"</i>
Intermed., "	<i>"</i>		<i>"</i>
Propeller "	<i>"</i>		<i>"</i>

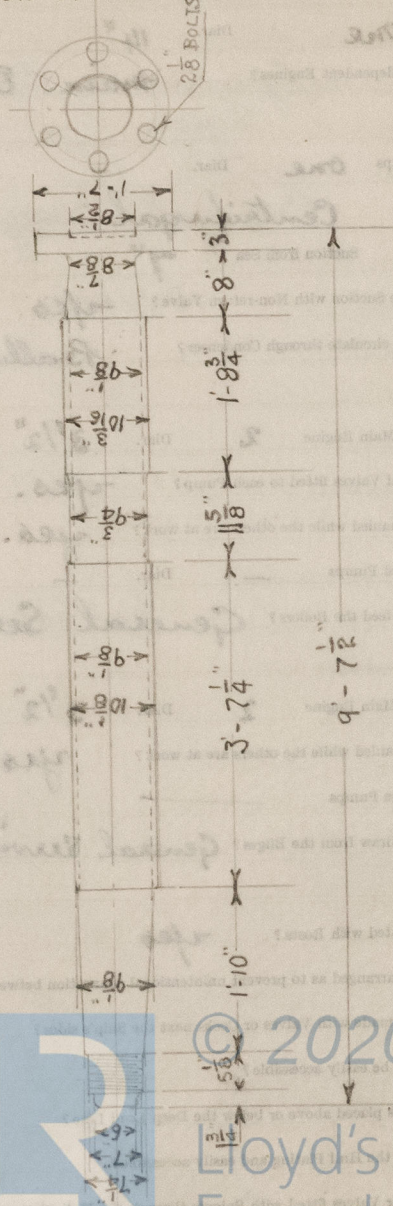
STAMP MARKS ON SHAFTS.

Crank Shafts L.R. No 104 W.G.H. 23/7/18 H.P.
" " " " " M.P.
" " " " " L.P.

Thrust Lloyd's forging No 192 finished mark B.C.
W.G.H. No 4414
15/4/20 J.E.S.

Propeller shaft L.R. forging No 201, finished mark B.C.
J.A. No 4411
15/4/20 J.E.S.

SKETCH OF PROPELLER SHAFT.



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PUMPS, ETC.

No. of Air Pumps *One* Diar. *14"* Stroke *15"*
 Worked by Main or Independent Engines? *Main Engine*

No. of Circulating Pumps *One* Diar. *-* Stroke *-*

Type of *" Centrifugal*

Diar. of *" Suction from Sea 7"*

Has each Pump a Bilge Suction with Non-return Valve? *yes* Diar. *5"*

What other Pumps can circulate through Condenser? *Ballast Pump*

No. of Feed Pumps on Main Engine *2* Diar. *3 1/2"* Stroke *15"*

Are Spring-loaded Relief Valves fitted to each Pump? *yes.*

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

No. of Independent Feed Pumps *-* Diar. *-* Stroke *-*

What other Pumps can feed the Boilers? *General Service Donkey*

No. of Bilge Pumps on Main Engine *2* Diar. *3 1/2"* Stroke *15"*

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

No. of Independent Bilge Pumps *-*

What other Pumps can draw from the Bilges? *General Service & Ballast Donkeys*

Are all Bilge Suctions fitted with Roses? *yes*

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

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

Are they placed so as to be easily accessible? *yes*

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

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

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



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BOILERS.

Works No.

No. of Boilers

2

Type

Cylindrical, return tube
Single

Single or Double-ended

No. of Furnaces in each

Two

Type of Furnaces

Corrograted Deighton

Date when Plan approved

Approved Working Pressure

180 lbs \square

Hydraulic Test Pressure

Date of Hydraulic Test

" when Safety Valves set

Pressure at which Valves were set

182 lbs \square

Date of Accumulation Test

Maximum Pressure under Accumulation Test

System of Draught

Natural

Can Boilers be worked separately?

Makers of Plates

" Stay Bars

" Rivets

" Furnaces

Greatest Internal Diam. of Boilers

" " Length "

Square Feet of Heating Surface each Boiler

1185 \square

" " Grate " "

35 $\frac{1}{2}$ \square

No. of Safety Valves each Boiler

Two

Diam.

2 $\frac{3}{4}$

Are the Safety Valves fitted with Easing Gear?

Yes

No. of Pressure Gauges, each Boiler

2

No. of Water Gauges

1

" Test Cocks

2

" Sallinometer Cocks

1



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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *Mounted on pillars*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes? *Connected by pipes*

Are these Pipes connected to Boilers by Cocks or Valves? *Cocks*

Are Blow-off Cocks or Valves fitted on Boiler Shells? *yes Cocks*

No. of Strakes of Shell Plating in each Boiler *One*

„ Plates in each Strake *One*

Thickness of Shell Plates Approved

„ „ in Boilers *15/16*

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints? *Butt*

Are the Butt Straps Single or Double? *Double*

Are the Double Butt Straps of equal width? *yes*

Thickness of outside Butt Straps *7/8*

„ „ inside „ *7/8*

Are Longitudinal Seams Hand or Machine Riveted? *Hand*

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch *1 1/16 14*

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 *Two*

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes *1 1/16* Pitch *3 1/8*

No. of Rows of Rivets in Back End Circumferential Seams *Two*

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes *1 1/16* Pitch *3 1/8*

Size of Manholes in Shell *12 x 16*

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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Diag. of Stays Approved Threads per Inch
 " " in Boilers $2\frac{5}{8}$ 6
 Material " Steel

Thickness of Front Tube Plates Approved

" " " in Boilers 1"

Pitch of Stay Tubes at Spaces between Stacks of Tubes 9" both plates riveted

Thickness of Doublings in " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End? No

Thickness of Back Tube Plates Approved

" " " in Boilers $1\frac{3}{16}$ "

Pitch of Stay Tubes in Back Tube Plates 9"

" Plain "

Thickness of Stay Tubes $5\frac{1}{16}$ "

" Plain "

External Diag. of Tubes 8 W.G.

Material " $3\frac{1}{4}$ plain
Lap welded iron

Thickness of Furnace Plates Approved

" " " in Boilers $1\frac{1}{2}$ "

Smallest outside Diag. of Furnaces $3'-3\frac{1}{8}"$

Length between Tube Plates $6'-10\frac{3}{8}"$

Width of Combustion Chambers (Front to Back) $2'-2"$

Thickness of " " Tops Approved $5\frac{1}{8}"$

" " " in Boilers 8"

Pitch of Screwed Stays in C.C. Tops

Diag. of Stay Tubes Approved Threads per Inch
 " " in Boilers $2\frac{5}{8}$
 Material " Steel

Thickness of Combustion Chamber Plates Approved

" " " in Boilers 1"

Pitch of Screwed Stays in C.C. Tops

Diag. of Stay Tubes Approved Threads per Inch

" " in Boilers $2\frac{5}{8}$

Material " Steel

Thickness of Combustion Chamber Plates Approved

" " " in Boilers $1\frac{3}{16}$ "

Pitch of Screwed Stays in C.C. Tops

Diag. of Stay Tubes Approved Threads per Inch

" " in Boilers $2\frac{5}{8}$

Material " Steel

Are all screw stays fitted with nuts at ends C.C.?

Thickness of Combustion Chamber Bottom

No. of stays over each wing chamber

Diag. of Stay Tubes

Material of Stays

Diag. of Stays in C.C.

No. of Stays in C.C.

Size of lower chamber



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Diar. of Screwed Stays Approved

Threads per Inch

" " " in Boilers

 $1\frac{5}{8}$ "

9

Material " "

Steel

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

 $\frac{5}{8}$ "

Pitch of Screwed Stays in C.O. Sides

9"

Diar. " " Approved

Threads per Inch

" " " in Boilers

 $1\frac{5}{8}$ "

9

Material " "

Steel

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

 $1\frac{9}{32}$ "

Pitch of Screwed Stays in C.O. Backs

8"

Diar. " " Approved

Threads per Inch

" " " in Boilers

 $1\frac{5}{8}$ " & $1\frac{3}{4}$ "

9

Material " "

Steel

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

Yes

Thickness of Combustion Chamber Bottoms

5"

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

8" deep $\frac{5}{8}$ " thick

Material of Girders

Steel

No. of Stays in each

Two

No. of Tubes, each Boiler

164

Size of Lower Manholes

12" x 16"

VERTICAL DONKEY BOILERS

No. of Tubes
 Diameter of Tubes
 Height of Boilers (from base to top of chimney)
 Are Boilers Covered that are heated?
 Internal Radius of Round Boilers
 Description of Stays in Boilers (drawn)
 Pitch of Stays
 Height of Stays (from base to top of chimney)
 Are Stays Covered that are heated?
 External Radius of Round Boilers
 No. of Screwed Stays
 Diameter of Stays
 Internal Diameter of Boilers at Top
 No. of Water Tubes
 Material of Water Tubes
 Size of Manholes in Boilers
 Thickness of Combustion Chamber
 Are all Stays fitted with Nuts inside C.O.?

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

Copper

Brazed, Welded or Seamless

Solid Drawn

Internal Diam.

5"

Thickness

6 gauge

How are Flanges secured?

Brazed

Date of Hydraulic Test

24/8/20

Test Pressure

360 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



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EVAPORATORS.

No. *one* Type *Separate coils* 8 Tons per Day
 Makers *Caird & Rayner*
 Working Pressure *10 lbs* Test Pressure Date of Test
 Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No. *One* Type *Exhaust Steam*
 Makers *Caird & Rayner*
 Working Pressure *10 lbs* Test Pressure Date of Test

FEED WATER FILTERS.

No. *One* Type *Duplex* Size
 Makers *Caird & Rayner*
 Working Pressure Test Pressure Date of Test

LIST OF DONKEY PUMPS.

6 x 4 1/2 x 6 *General Service* *Duplex*
7 x 8 x 8 *Ballast* *Duplex*



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SPARE GEAR.

No. of Top End Bolts.	2	No. of Bot. End Bolts.	2	No. of Cylinder Cover Studs	
" Coupling Bolts	6	" Main Bearing Bolts	2	" Valve Chest "	
" Junk Ring Bolts	6	" Feed Pump Valves	2	" Bilge Pump Valves	2
" H.P. Piston Rings		" L.P. Piston Rings		" L.P. Piston Rings	
" " Springs		" " Springs		" " Springs	1 set
" Safety Valve "		" Fire Bars		" Feed Check Valves	
" Piston Rods	-	" Connecting Rods		" Valve Spindles	
" Air Pump Rods	-	" Air Pump Buckets	-	" Air Pump Valves	3
" Cir. "	-	" Cir. "	-	" Cir. "	
" Crank Shafts		" Crank Pin Bushes		" Crosshead Bushes	
" Propeller Shafts		" Propellers	one	" Propeller Blades	
" Boiler Tubes		" Condenser Tubes	3	" Condenser Ferrules	50

OTHER ARTICLES OF SPARE GEAR:—

2 sets Valves for Feed Donkey
 2 do Ballast Donkey
 12 assorted Iron studs & nuts
 6 do Brass studs & nuts

REFRIGERATORS



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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

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

ELECTRIC LIGHTING.

Installation Fitted by

No. and Description of Dynamos

Makers of Dynamos

Capacity	Amperes, at	Volts,	Revs. per Min.
----------	-------------	--------	----------------

Current Alternating or 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. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
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<p>Total No. of Lights No. of Motors driving Fans, &c. No. of Heaters</p>							

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heater.

Current required for Motors and Heaters

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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 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?

Ohms.

Is the Installation supplied with a Voltmeter?

“ “ “ an Ampere Meter ?

Date of Trial of complete Installation

Duration of Trial

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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.

Engines commenced to L.R. and completed to B.C. survey.

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. *Mainly Locomotives*

as ascertained by ^{us}me from personal examination

Jas. E. Steele

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,

Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the

Fees advised

Fees paid



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Lloyd's Register
Foundation
Secretary.

GENERAL CONSTRUCTION

It is requested that this report be approved.

Approved by the Committee for the Office of M.B.S. on 10/10/1919

Approved by the Committee for the Office of M.B.S. on 10/10/1919

Approved by the Committee for the Office of M.B.S. on 10/10/1919

Engines commenced to L.R. and completed to B.C. 10/10/1919

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