

No. 1492

Anderson's Gas Co
1799

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1248* No. in Register Book *2475*

LADY CYNTHIA
" *EX* *BARNSTAPLE* " — MINESWEEPER.
T.S.S.

Makers of Engines *Ross & Duncan.*

Works No. *1049-1050.*

Makers of Main Boilers *GALLOWAYS LTD MANCHESTER.*

Works No.

Makers of Donkey Boiler *NONE*

Works No. */*

MACHINERY.



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No. 1492

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

H.M.S. *"Barnstaple"*

Makers of Engines *Ross & Duncan*

Works No. *1049-50*

Makers of Main Boilers *Galloway's Ltd Manchester*

Works No. */*

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

Surveyor's Report on the ~~Detw~~ Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ Screw ~~Twin Quadruple~~ MINE SWEEPER
"BARNSTAPLE"

Official No. - Port of Registry -

Registered Owners ADMIRALTY.

Engines Built by ROSS & DUNCAN

at GOVAN, GLASGOW.

Main Boilers Built by GALLOWAY'S LTD

at MANCHESTER.

Donkey " " }

at NONE

Date of Completion 29th DECEMBER, 1919

First Visit G.S.M. 18.6.19 Last Visit 29th DEC. 1919 Total Visits 3

M^r BOYES

" WATSON

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RECIPROCATING ENGINES.

Works No. 1049-50 No. of Sets 2 Description *Tw. screw, Ir. exp²*

Inverted. Surface condensing.

No. of Cylinders each Engine 3 No. of Cranks 3
 Diars. of Cylinders *13 1/4", 21 1/4", 34"* Stroke *21"*
 Cubic feet in each L.P. Cylinder *11.04*
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr? *yes*
 " " " each Receiver? *yes*
 Type of H.P. Valves, *Piston valves*
 " 1st L.P. " *Do.*
 " 2nd L.P. " *Do.*
 " L.P. " *Andrews & Cameron's Balanced valve.*
 " Valve Gear *Stephenson's Link.*
 " Condenser *Surface - two* Cooling Surface *1000* sq. ft. each
 Diameter of Piston Rods (plain part) *3 1/2"* Screwed part (bottom of thread) *3.18"*
 Material " *Steel.*
 Diar. of Connecting Rods (smallest part) *3 1/2"* Material *Steel*
 " Crosshead Gudgeons *4 1/4"* Length of Bearing *8"* Material *Steel.*
 No. of Crosshead Bolts (each) 2 Diar. over Thrd. 2" Thrds. per inch 6 Material *Iron.*
 " Crank Pin " " 2 " 2" " 6 " *Do.*
 " Main Bearings Lengths
 " Bolts in each 2 Diar. over Thread *1 3/4"* Threads per inch 6 Material *Iron*
 " Holding Down Bolts, each Engine *67* Diar. *7/8"* No. of Metal Chocks *67*
 Are the Engines bolted to the Tank Top or to a Built Seat? *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 *Denny & Co. Dumbarton.*

Piston " " *Do.*

Crossheads, " *Solid with Piston Rods.*

Connecting Rods, Finished by *Ross & Duncan.*

Piston " " *Do.*

Crossheads, " *Do.*

Date of Harbour Trial *26/9/19*

" Trial Trip *23/12/19*

Trials run at *Firth of Clyde.*

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

If so, what was the I.H.P.? *2406* Revols. per min. *262*

Pressure in 1st L.P. Receiver, *205* lbs., 2nd L.P., *77* lbs., L.P., *20* lbs., Vacuum, *24* ins.

Speed on Trial *16.466* knots. MEAN.

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:—

Builders' estimated I.H.P. —

Revs. per min.

Estimated Speed —



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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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NOT SO FITTED

TURBINE ENGINES

No. of Turbine Engines
 Type of Turbine
 No. of H.P. Turbine
 No. of L.P. Turbine
 No. of A.P. Turbine

Are the Propeller Shafts driven direct by the Turbine or through Gear?

Is Single or Double Reduction Gear employed?

Describe arrangement of H.P. Turbine at full power

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

1.9

1.10

Turbine shafts driven by

1.11

1.12

1.13

DESCRIPTION OF INSTALLATION

NOT SO FITTED

TURBO-ELECTRIC PROPELLING MACHINERY

No. of Turbo-Electric Propellers

Capacity of each

Type of Turbine employed

Description of Installation

NOT SO FITTED

Is Single or Double Reduction Gear employed?

Describe arrangement of H.P. Turbine at full power

1.1

No. of Motors driving Propeller Shafts

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

Is Single or Double Reduction Gear employed?

Description of Motors

Describe how shaft of Generator at full power

1.1

1.2

1.3

1.4

1.5

1.6

1.7



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each
 Type of Turbines employed
 Description of Generators

NOT SO FITTED.

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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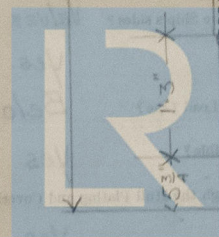
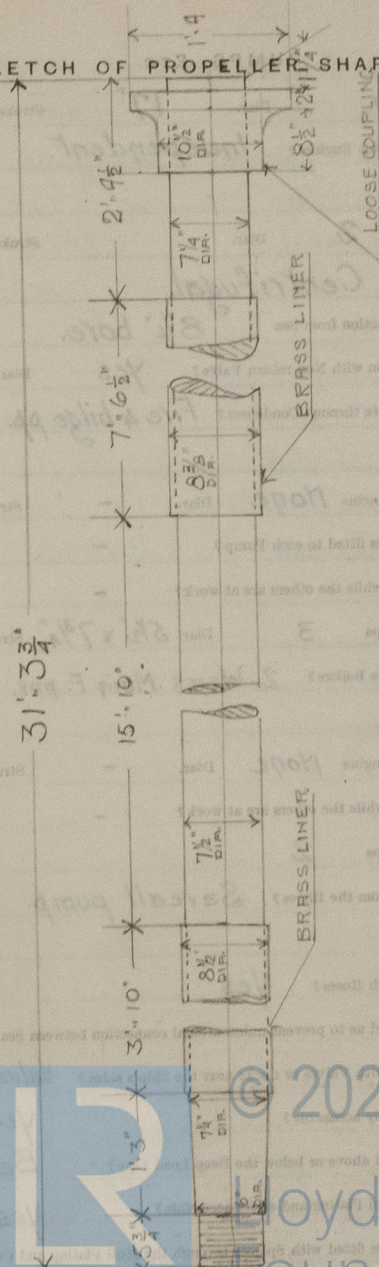
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No. of Blades each Propeller *4* Fitted or Solid? *Solid*
 Material of Blades *Bronze* Boss *Bronze*
 Diam. of Propellers *6' 6"* Pitch *8' 3"* Surface (each) *18.0* S. ft.
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by *Portland Forge Co. Ld.* Material *Steel*
 " Pins " } *Solid with Shaft.* "
 " Webs " } "
 Thrust Shafts " *Langley Forge Co.* "
 Interned. " *Do.* "
 Propeller " *Portland Forge Co.* "
 Crank " Finished by *A. F. Craig & Co. Paisley.*
 Thrust " " *Ross & Duncan, Govan.*
 Interned. " *Do.*
 Propeller " *A. F. Craig & Co. Paisley.*

STAMP MARKS ON SHAFTS.

SKETCH OF PROPELLER SHAFT.



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PUMPS, ETC.

No. of Air Pumps *2* Diar. *17"* Stroke *12"*

Worked by Main or Independent Engines? *Independent.*

No. of Circulating Pumps *2* Diar. Stroke */*

Type of " *Centrifugal.*

Diar. of " Suction from Sea *8 1/2" bore.*

Has each Pump a Bilge Suction with Non-return Valve? *Yes* Diar. *6"*

What other Pumps can circulate through Condenser? *Fire & bilge pps. in Aff- Blt. r.m.*

No. of Feed Pumps on Main Engine *None* 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 *3* Diar. *5 1/2" x 7 3/4"* Stroke *12"*

What other Pumps can feed the Boilers? *2 Weir's Main F. pps. 1 Aux. (See page 33)*

No. of Bilge Pumps on Main Engine *None* Diar. - Stroke -

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

No. of Independent Bilge Pumps *2*

What other Pumps can draw from the Bilges? *Saveall pump.*

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? *Valves & cocks.*

Are they placed so as to be easily accessible? *Yes.*

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

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 *Yarrow Water tube.*

Single or Double-ended *-*

No. of Furnaces in each *1*

Type of Furnaces _____

Date when Plan approved _____

Approved Working Pressure *235 lbs.*

Hydraulic Test Pressure *352½*

Date of Hydraulic Test *23/12/18, 24/2/19 (Lloyds.) 16/9/19 (B.C.)*

" when Safety Valves set *23/9/19.*

Pressure at which Valves were set *237 lbs. & 242 lbs.*

Date of Accumulation Test _____

Maximum Pressure under Accumulation Test _____

System of Draught *Closed stokehold.*

Can Boilers be worked separately? *Yes.*

Makers of Plates _____

" Stay Bars _____

" Rivets _____

" Furnaces _____

Greatest Internal Diam. of Boilers _____

" " Length " _____

Square Feet of Heating Surface each Boiler *About 3500 ft²*

" " Grate " " *60 ft²*

No. of Safety Valves each Boiler *2* Diam. *17"*

Are the Safety Valves fitted with Easing Gear? *Yes.*

No. of Pressure Gauges, each Boiler *2* No. of Water Gauges *2*

" Test Cocks *-* " Salinometer Cocks *1*

Marks on Boilers.
3rd boiler

No 36
 LLOYD'S TEST
 353 LBS. 0" F.R.
 23/12/1918

14027
 No 7 BOILER

Boilers made by Galloways, Ltd
Manchester.

No 41

LLOYD'S TEST
 353 LBS. 0" F.R.
 24/2/1913

No 8 BOILER.



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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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Diarr. 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 Diarr. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diarr. 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

Diarr. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diarr. " " Approved Threads per Inch

" " " " in Boilers

Material " "

Thickness of Combustion Chamber Heads Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Heads

Diarr. " " Approved Threads per Inch

" " " " in Boilers

Material " "

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

Thickness of Combustion Chamber Bottoms

No. of Stays over each Wing Chamber

" Centre " " "

Depth and Thickness of Stays

Material of Stays

No. of Stays in each

No. of Tubes each Boiler

Size of Tubes



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Diam. 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

Diam. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diam. " " 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

Type No. of Boilers

Height Greatest Incl. Diam.

Height of Smoke Crown above Fire Grate

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Ends

Description of seams in Boiler Crowns

Pitch of Rivet Joints

Height of Smoke Crown above Fire Grate

Are Crowns Crowned Flat or Dished?

External Radius of Dished Crowns

No. of Crown Stays

External Diam. of Smoke at Top

Size of Water Tubes

Material of Water Tubes

Size of Manhole in Shell

Dimensions of Longitudinal Rib

Heating Surface, each Boiler

Grate Surface

SUPERHEATERS

Description of Superheaters

Where situated?

Which follows are connected with superheaters?

No. of Safety Valves on each superheater

Date of Inspection

Inspector's Name

Inspector's Signature

Date of Inspection

Inspector's Name

Inspector's Signature



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VERTICAL DONKEY BOILERS.

No. of Boilers	Type	
Greatest Int. Diam.		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		
Diam. 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	Diam.	Material
External Diam. of Firebox at Top	Bottom	Thickness of Plates
No. of Water Tubes	Ext. Diam.	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	Diam.
Are " " fitted with Raising 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	9
Material	Steel
Brazed, Welded or Seamless	Solid drawn
Internal Diam.	4 1/2"
Thickness	3/16" x 1/4"
How are Flanges secured?	Screwed & riveted over.
Date of Hydraulic Test	28-8-19 & 12-9-19
Test Pressure	470 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 *Quiggin's* 30 Tons per Day
 Makers *Liverpool Engineering Co. Ltd. Liverpool*
 Working Pressure *220* Test Pressure *-* Date of Test *-*
 Date of Test of Safety Valves under Steam *28/10/19*

FEED WATER HEATERS.

No. Type
 Makers
 Working Pressure Test Pressure Date of Test

NOT SO FITTED

FEED WATER FILTERS.

No. *One* Type *Gravitation (Twin Type)* Size *3½"*
 Makers *Carruther's Ltd.*
 Working Pressure *-* Test Pressure *-* Date of Test

FORCED DRAUGHT FANS

No. *Two* Type *Howden's F.D.* Size *72" diar.*
6" x 5" Forced Lubrication Engine.

LIST OF DONKEY PUMPS.

"Monotype" Air Pumps, 2 in No. *Weir's, Cathcart.*
 Circulating Centrifugal Pumps, 2 in No.
 Main Feed Pumps 2 in No. *Weir's, Cathcart.*
 Aux^y " " 1 " " *do.*
 Fire & Bilge " 2 " " *do.*
 Saveall " 1 " " *do.*



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LIST OF SPARE GEAR

No. of Top End Bolts. <i>2</i>	No. of Bot. End Bolts. <i>2</i>	No. of Cylinder Cover Studs <i>6</i>
" Coupling Bolts <i>1 Set Short</i> <i>1 " Long</i>	Main Bearing Bolts <i>2</i>	" Valve Chest <i>4</i>
" Junk Ring Bolts	" Feed Pump Valves	" Bilge Pump Valves
" H.P. Piston Rings <i>4</i> <i>2 Carrier</i>	L.P. Piston Rings <i>4</i> <i>2 Carrier</i>	L.P. Piston Rings <i>1 Set</i>
" " Springs	" " Springs	" " Springs <i>1 Set</i>
" Safety Valve "	" Fire Bars	" Feed Check Valves
" Piston Rods <i>1</i>	" Connecting Rods <i>-</i>	" Valve Spindles <i>2</i>
" Air Pump Rods	" Air Pump Buckets	" Air Pump Valves
" Clr. "	" Clr. "	" Clr. "
" Crank Shafts	" Crank Pin Bushes <i>1 Pr.</i>	" Crosshead Bushes <i>1 Pr.</i>
" Propeller Shafts	" Propellers	" Propeller Blades
" Boiler Tubes	" Condenser Tubes <i>64</i>	" Condenser Ferrules <i>130</i>

OTHER ARTICLES OF SPARE GEAR:—

Spares for all Auxiliaries.

REFRIGERATORS



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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

NOT SO FITTED

NOT SO FITTED

RESULTS OF TRIALS.

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

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ELECTRIC LIGHTING.

Installation Fitted by

Telford, Guir & Mackay Glasgow

No. and Description of Dynamos

2 off 4 Pole Drip-proof, compound.

Makers of Dynamos

Ashworth, Parker & Co. British Thomson-Houston

Capacity

12 KW Amperes, at 120 Volts, 100 Revols. per Min. 500

Current Alternating or Continuous

Continuous

Single or Double Wire System

Double

Position of Dynamos

Fore End of Engine Room P & S.

Main Switch Board

Adjacent to start^d Dynamo.

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

Nine

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.
1 Wireless	-	-	12.5	7/18	1000	100%	2500
2 Rotary	-	-	15	7/18	800	"	"
3 Navigation	26	16	13	19/20	684	"	"
4 Forward	34	16	20	19/20	1052	"	"
5 after	33	16	16	19/20	841	"	"
6 10" Projector	16	32	25	19/20	1314	"	"
7 Engine & B.P.M.	36	16	65	19/16	1055	"	"
8 Police	21	16	15	7/18	1200	"	"
9 Radiators	-	-	40	19/7	870	"	"

Total No. of Lights

166

No. of Motors driving Pumps, &c.

10

No. of Heaters

5

Current required for Motors and Heaters

55 amperes

GENERAL CONSTRUCTION.

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

Approved Plans?

Yes (Admiralty)

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~~ H.M.S. "BARNSTAPLE"

as ascertained by ~~me~~ from personal examination

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

Fees—

MAIN BOILERS.

H.S.

Sq. ft.

£

s.

d.

G.S.

"

DONKEY BOILERS.

H.S.

Sq. ft.

G.S.

"

£

s.

d.

ENGINES.

L.P.C.

Cub. ft.

£

s.

d.

Testing, &c. ...

£

s.

d.

Expenses ...

£

s.

d.

Total ...

It is submitted that this Report be approved,

Chief Surveyor.

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

1920

14th January.

Fees advised

Fees paid



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Secretary.

STEERING GEAR: ALEX^d TURNBULL & CO L^{td}, GLASGOW.
ENGINE N^o 1331. N^o 2.

TRAWL WINCH: - W^M STEPHENSON & Co. L^{TD} GRIMSBY

WINDLASS: - EMERSON, WALKER & THOMSON.
GATESHEAD & LONDON.

STEERING GEAR: ALEX. TURNBULL & CO. LTD. GLASGOW.
ENGINE NO. 1331. H.P. 2.

TRAWL WINCH: W. STEPHENSON & CO. LTD. GRIMSBY.

WINDLASS: EMERSON, WALKER & THOMSON.
GLASGOW & LONDON.



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