

No. 2291

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2322 No. in Register Book 3718

" "
S.S. YASHIMA

Makers of Engines Cumtch Dock Co Ltd

Works No. 348

Makers of Main Boilers Blair Co (1926) Ltd

Works No. C. 250.

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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008196-008200-0115

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
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Report No. No. in Register Book

Received at Head Office *15th February 1930*

Surveyor's Report on the Petio Engines, Boilers, and Auxiliary
Machinery of the Single Triple Screw Trawler

"Yashima"

Official No.

Port of Registry

Cardiff.

Registered Owners

Heale Trust.

Engines Built by

*Cythera Dock & Ld.
Lough Bank-on-Les.*

at

Main Boilers Built by

*Blair & Co. Ld.
Stockton-on-Les.*

at

Donkey " "

at

Date of Completion

10-29.

First Visit

12-8-29

Last Visit

25-10-29

Total Visits

30

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RECIPROCATING ENGINES

Works No. **348.** No. of Sets **1** Description **Triple expansion. 3 Cyls.**

No. of Cylinders each Engine **3** No. of Cranks **3**
 Diars. of Cylinders **13 1/4" - 23" - 32"** Stroke **24"**
 Cubic feet in each L.P. Cylinder **16.8**

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 "

Diar. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diar. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

"

"

"

" Main Bearings

Lengths

" Bolts in each

Diar. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diar.

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 **Brown Bros.**

Piston " "

Crossheads,

Connecting Rods, Finished by **Burton & Co.**

Piston " "

Crossheads,

Date of Harbour Trial **17-10-29**

" Trial Trip **25-10-29**

Trials run at **In North Sea.**

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

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

553

Revs. per min. **104**

Pressure in 1st I.P. Receiver, **60** lbs., 2nd I.P.,

lbs., L.P., **10.5** lbs., Vacuum, **25** ins.

Speed on Trial

no speed taken

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

data:—

Builders' estimated L.H.P. **550**

Revs. per min. **105**

Estimated Speed

10.5 knots



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion

" 1st " Wheel

}

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

}

Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revs. per min. of 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

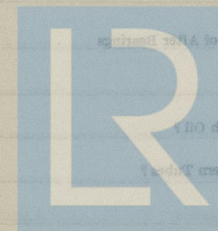
Turbine Spindles forged by

" 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 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

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.



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No. of Blades each Propeller

4
C.A.

Fitted or Solid?

solid.
C.A.

Material of Blades

Diam. of Propellers

10'0"

Pitch

11'3"

Surface (each

39

S. ft.)

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

Crank Shafts Forged by

Tils Forge Co.

Material

L.S.

Pins

Webs

Thrust Shafts

Intermed.

Propeller

Crank Finished by

Thrust

Intermed.

Propeller

STAMP MARKS ON SHAFTS.

Crank. Thrust
Shaft shafts:-

B. C.
N ^o 656
4-4-29
R. S.

SKETCH OF PROPELLER SHAFT.

Stroke

Diam.

No. of Air Pumps

Worked by Main or Independent Engines?

Stroke

Diam.

No. of Circulating Pumps

Type of

Diam. of

Section from Sea

Diam.

Has each Pump a Bypass Section with Non-return Valve?

What other Pumps can circulate through Condensers?

Stroke

Diam.

No. of Feed Pumps on Main Engines

Are Spring-loaded Relief Valves fitted to each Pump?

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

Stroke

Diam.

No. of Independent Feed Pumps

What other Pumps can feed the Boilers?

Stroke

Diam.

No. of Bypass Pumps on Main Engines

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

No. of Independent Bypass Pumps

What other Pumps can draw from the Bilges?

Are all Bypass Sections fitted with Valves?

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

Are all Sea Connections made with Valves or Non-return Valves?

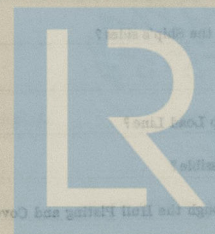
Are they placed so as to be easily accessible?

Are the Discharge Pumps placed above or below the Deep Load Line?

Are they fitted with Non-return Valves and easily accessible?

Are the Pumps so arranged that they can discharge through the Main Piping and Covering Pipes or Flanges

on the Outside?



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PUMPS, ETC. OF SHIP

No. of Air Pumps Diar. Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps Diar. Stroke

Type of " Life Long by.

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

Single 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 Heating

Can Boilers be worked separately?

Name of Boiler

" " Day Date

" " Month

" " Year

Greatest Internal Diam. of Boilers

" " Length

Square Feet of Heating Surface

" " Circum.

No. of Safety Valves on each Boiler

Are the Safety Valves fitted with Blow-off Cocks?

No. of Blow-off Cocks on each Boiler

" " Test Cocks



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BOILERS

Works No.

No. of Boilers

1

Type

C 250.
cylindrical multitubular
single.

Single or Double-ended

No. of Furnaces in each

3

Type of Furnaces

plain.

Date when Plan approved

Approved Working Pressure

180 lbs.

Hydraulic Test Pressure

320 "

Date of Hydraulic Test

10-8-29

" when Safety Valves set

17-10-29

Pressure at which Valves were set

186 lbs.

Date of Accumulation Test

17-10-29

Maximum Pressure under Accumulation Test

186 lbs.

System of Draught

natural

Can Boilers be worked separately?

y/s.
J. Munlop & Co. Ltd.

Makers of Plates

" Stay Bars

D. Coburn & Sons

" Rivets

Blair Co.
Beardmore & Co.

" Furnaces

Greatest Internal Diam. of Boilers

14' 0"

" " Length "

10' 9"

Square Feet of Heating Surface each Boiler

1980 sq

" " Grate " "

55.5 sq

No. of Safety Valves each Boiler

2

Rule Diam.

Actual

2 3/4"

Are the Safety Valves fitted with Easing Gear?

y/s.

No. of Pressure Gauges, each Boiler

2

No. of Water Gauges

1

" Test Cocks

3

" Salinometer Cocks

1



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

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

Are these Pipes connected to Boilers by Cocks or Valves?

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

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

Thickness of End Plates in Steam Space Approved

„ „ in Boilers

Pitch of Steam Space Straps

„ „ Approved

„ „ in Boilers

Material of „

How are Straps Secured?

Diar. and Thickness of Loose Washers on End Plates

„ „ Riveted

„ „ Doubling Straps

Thickness of Middle Back End Plates Approved

„ „ in Boilers

Thickness of Doublings in Wide Spaces between Plates

Pitch of Straps at

Pitch of Straps Approved

„ „ in Boilers

Material „

Are Straps fitted with Ribs outside?

Thickness of Back End Plates in Boilers Approved

„ „ in Boilers

Pitch of Straps at Wide Spaces between Rivets

Thickness of Doublings in

Thickness of Front End Plates in Boilers Approved

„ „ in Boilers

No. of Longitudinal Straps in Wide Spaces between Plates



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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

Threads per Inch

Thickness of Stays Approved

" " " " in Boilers

Material "

Thickness of Front End 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 and

Thickness of Back End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " " in Boilers

Thickness of Stay Tubes

" " " " in Boilers

Approximate Diar. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " " in Boilers

Unstayed outside Diar. of Furnaces

Length between Tube Plates

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Diam. 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 Diam. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diam. 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.O. Tops

Same as c/s 6 kn

Diam. of Screwed Stays Approved Threads per Inch

" " " " in Boilers

Material "

Thickness of Combustion Chamber Plates Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diam. " " " " Approved

" " " " in Boilers

Material "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diam. " " " " Approved

" " " " in Boilers

Material "

Are all Screwed Stays fitted with Nuts at both C.O.s

Thickness of Combustion Chamber Headers

No. of Stays over each Wing Chamber

" " " " Centre

Light and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes in each Boiler

Diam. of Lower Main Tubes



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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 O.O. Sides

Diar. " " Approved

Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in O.O. Backs

Diar. " " Approved

Threads per Inch

" " " in Boilers

Material " "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " 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

Greatest Int. Diam.

Height

Height of Boiler Crown above Fire Bricks

Are Boiler Crowns Flat or Dished?

Internal Radius of Dished Boilers

Thickness of Plates

Description of Stays in Boiler Crowns

Diam. of Rivet Holes

Height of Firebox Crown above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns

Thickness of Plates

No. of Crown Stays

Diam.

External Diam. of Firebox at Top

Bottom

No. of Water Tubes

Int. Diam.

Thickness

Maintenance of Water Tubes

Size of Manholes in Shell

Dimensions of Staggering Ring

Heating Surface, each Boiler

Grate Surface

SUPERHEATERS

Description of Superheaters

Where situated?

Which boiler are connected to superheater?

Can superheaters be shut off while boiler are working?

No. of Safety Valves on each superheater

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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			
Diarr. 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	Diarr.	Material	
External Diarr. of Firebox at Top	Bottom	Thickness of Plates	
No. of Water Tubes	Ext. Diarr.	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

Diarr.

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

MAIN STEAM PIPES.

No. of Pipes	
Material	
Joined, Welded or Bolted	
Internal Diarr.	
Thickness	
How are Flanges secured?	
Date of Hydraulic Test	
Test Pressure	

No. of Pipes

Material

Joined, Welded or Bolted

Internal Diarr.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure



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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

1
copper.
S. D.
4
6 W.Y.
brained.
10-10-29
400 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

FEED WATER PIPES.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Test Pressure

FEED WATER HEATERS.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Test Pressure

FEED WATER FILTERS.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Test Pressure



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FEED WATER HEATERS.

FEED WATER FILTERS.

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

Came as c/s OK

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

OTHER ARTICLES OF SPARE GEAR:—

Are Thermometer Tubes so accurate? What cannot enter and what is there?

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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

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.
No. and Name of Dynamo				
Capacity				
Current Attending or Consumed				
Single or Double Wire System				
Position of Dynamo				
Main Switch Board				
No. of Circuits to which batteries are provided in Main Switch Board				
Particulars of Batteries				
Current				
Temperature				
Specific Gravity				
Electromotive Force				

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



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ELECTRIC LIGHTING

Installation Fitted by

No. and Description of Dynamometers

Makers of Dynamos

Capacity, 45 Amperes, at 100 Volts, 350 Revols. 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. Amperes.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
<i>same as spec</i>							

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

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 Uses 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 25-10-29 Duration of Trial

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

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

" *YASHIMA* "

J. W. Stephenson

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	<i>1980</i> Sq. ft.	:	:	:
G.S.	<i>55.5</i> "	:	:	:
DONKEY BOILERS.				
H.S.	<i>✓</i> Sq. ft.	:	:	:
G.S.	<i>✓</i> "	:	:	:
		£	:	:
ENGINES.				
L.P.C.	<i>16.8</i> Cub. ft.	:	:	:
		£	:	:
Testing, &c. ...		:	:	:
		£	:	:
Expenses ...		:	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

Jas Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *19th February 1930.*

Fees advised

Fees paid



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Secretary.

GENERAL CONSTRUCTION

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

It is submitted that this Report be approved.

Yes - *1980*
 No - *1980*
 Yes - *1980*
 No - *1980*

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

AMIRALTY

From advised

From paid

Secretary



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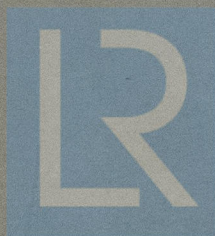
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