

No.

TH No. 1896

BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1542 No. in Register Book 2754

S.S.

BARALT

Makers of Engines

FLEMING & FERGUSON

Works No. 456

Makers of Main Boilers

FLEMING & FERGUSON

Works No. 456

Makers of Donkey Boiler

Works No.

MACHINERY.



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013179-013185-0002

No.

THE BRITISH CORPORATION FOR THE SURVEY

AND
REGISTRY OF SHIPPING.

Report No. 1572 No. in Register Book 2754

Received at Head Office 10th Nov 1922

Surveyor's Report on the Detw Engines, Boilers, and Auxiliary
Machinery of the SINGLE STEAMER
Twin Quadruple Screw

BARALT

Official No. NOT KNOWN Port of Registry CURACAO

Registered Owners West Indische Scheepvaart Maatschappij

Engines Built by FLEMING & FERGUSON

at PAISLEY

Main Boilers Built by FLEMING & FERGUSON

at PAISLEY

Donkey " "

at

Date of Completion 25-11-21

First Visit 14/4/21

Last Visit 25-11-21

Total Visits 15

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RECIPROCATING ENGINES.

Works No. 456 No. of Sets 1 Description Triple Expansion

Sea Surface Condensing

No. of Cylinders each Engine 3 No. of Cranks 3

Diars. of Cylinders 15 - 25 - 40 Stroke 27

Cubic feet in each L.P. Cylinder 26

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

" " " each Receiver? Yes

Type of H.P. Valves, Piston Valve.

" 1st L.P. " Double Ported Slide Valve

" 2nd L.P. "

" L.P. " Double ported Slide Valve

" Valve Gear Open.

" Condenser Cylindrical No Flow. Cooling Surface 850 sq. ft.

Diameter of Piston Rods (plain part) 4" Screwed part (bottom of thread) 2 7/8"

Material " Ignat Steel

Diar. of Connecting Rods (smallest part) 2 3/8" Material Ignat Steel

" Crosshead Gudgeons 4 1/2 Length of Bearing 6 1/2 Material Hard Steel

No. of Crosshead Bolts (each) 2 Diar. over Thrd. 2 1/2 Thrds. per inch 4 Material Steel

" Crank Pin " " 2 " 2 1/4 " 4 " Steel

" Main Bearings 6 Lengths 8"

" Bolts in each 2 Diar. over Thread 2 Threads per inch 4 1/2 Material Steel

" Holding Down Bolts, each Engine 36 Diar. 1 1/8 No. of Metal Chocks 14.

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? Bolts Fitted Through Girders

Connecting Rods, Forged by Fleming & Ferguson Paisley

Piston " "

Crossheads, " "

Connecting Rods, Finished by " "

Piston " "

Crossheads, " "

Date of Harbour Trial 23-11-21

" Trial Trip 25-11-21

Trials run at Torfar Coast.

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

If so, what was the I.H.P.? 724.5

Revs. per min. 123.

Pressure in 1st H.P. Receiver, 170 lbs., 2nd L.P., 59 lbs., L.P., 20 lbs., Vacuum, 25 ins.

Speed on Trial 11.19

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

Engines made under R
Shovey.

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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? *Solid*

No. of Lengths in each *One* Angle of Cranks *120°*

Diar. by Rule *7.753* Actual *7 7/8"* In Way of Webs *8 1/4"*

" of Crank Pins *7 7/8"* Length between Webs *8"*

Greatest Width of Crank Webs *18* Thickness *5"*

Least " " *12"* " " *5"*

Diar. of Keys in Crank Webs *1 3/4"* Length *4*

" Dowels in Crank Pins *1* Length *2 1/4"* Screwed or Plain *PLAIN.*

No. of Bolts each Coupling *6* Diar. at Mid Length *1 7/8"* Diar. of Pitch Circle *1 1/2"*

Greatest Distance from Edge of Main Bearing to Crank Web *7"*

Type of Thrust Blocks *Horse Shoe Type.*

No. " Rings *5*

Diar. of Thrust Shafts at bottom of Collars *8* No. of Collars *5*

" " Forward Coupling *7 7/8* At Aft Coupling *7 7/8*

Diar. of Intermediate Shafting by Rule *7.36* Actual *7 1/2* No. of Lengths *1*

No. of Bolts, each Coupling *6* Diar. at Mid Length *1 7/8"* Diar. of Pitch Circle *1 1/2"*

Diar. of Propeller Shafts by Rule *8.29* Actual *8 7/8* At Couplings *7 7/8*

Are Propeller Shafts fitted with Continuous Brass Liners? *yes.*

Diar. over Liners *10 3/8 & 10 3/16* Length of After Bearings *3'-3 1/4"*

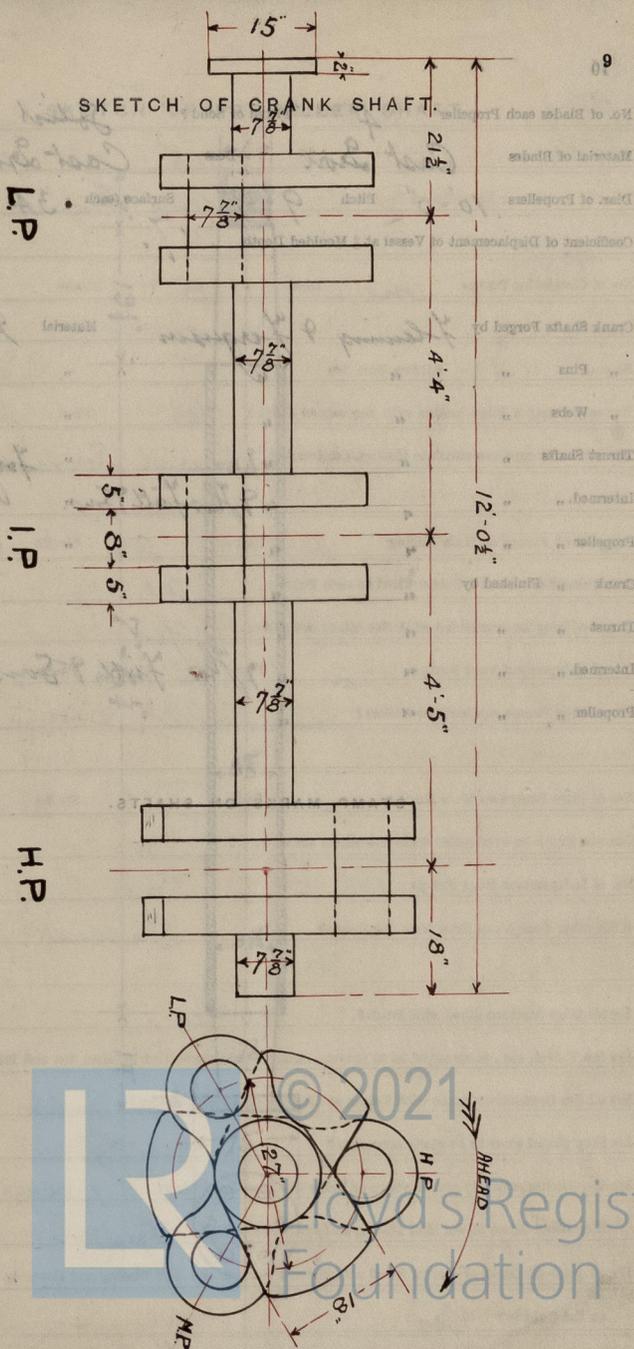
Of what Material are the After Bearings composed? *Lignum Vitae*

Are Means provided for lubricating the After Bearings with Oil? *yes* *no*

" " to prevent Sea Water entering the Stern Tubes? *yes* *no*

If so, what Type is adopted? *Vickers Patent Gland*

SKETCH OF CRANK SHAFT.



No. of Blades each Propeller

4

Fitted or Solid?

Solid

Material of Blades

Cast Iron

Boss

Cast Iron

Diam. of Propellers

10'-0"

Pitch

9'-9"

Surface (each)

.37

S. ft. *Solid*

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

Crank Shafts Forged by

Hewning & Ferguson

Material

Ingot Steel

" Pins

"

"

"

" Webs

"

"

"

Thrust Shafts

"

"

Forged Steel

Intermed.,

"

"

J. & Sons

Propeller

"

"

Crank Finished by

"

Thrust

"

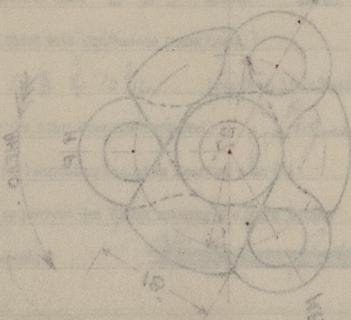
Intermed.,

"

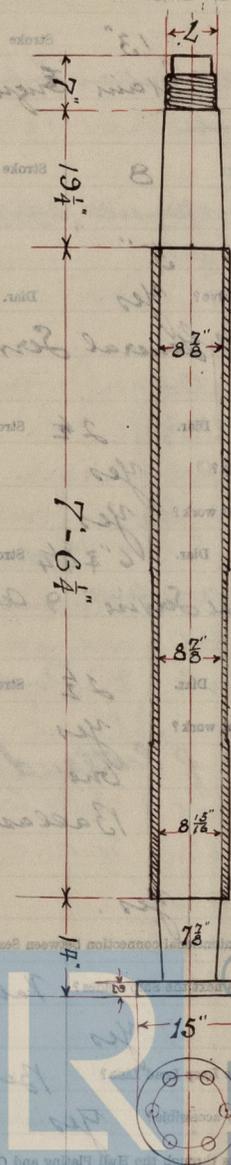
Propeller

"

STAMP MARKS ON SHAFTS.



SKETCH OF PROPELLER SHAFT.



Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *Direct to Boiler Shell*

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? *Values*

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

No. of Strakes of Shell Plating in each Boiler *2*

Plates in each Strake *2*

Thickness of Shell Plates Approved *25*
32

in Boilers *25*
32

Are the Rivets Iron or Steel? *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 *5*
8

inside *3*
4

Are Longitudinal Seams Hand or Machine Riveted? *Machine*

Are they Single, Double, or Treble Riveted? *Treble*

No. of Rivets in a Pitch *5*

Diar. of Rivet Holes *13*/₁₆ Pitch *5*³/₄

No. of Rows of Rivets in Centre Circumferential Seams *No Circumferential Centre Seam*

Are these Seams Hand or Machine Riveted? *—*

Diar. of Rivet Holes *—*

Pitch *—*

No. of Rows of Rivets in Front End Circumferential Seams *2*

Are these Seams Hand or Machine riveted? *Hand*

Diar. of Rivet Holes *7*/₈ Pitch *3*"

No. of Rows of Rivets in Back End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *Machine*

Diar. of Rivet Holes *4*/₈ Pitch *3*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *2'-11*³/₄ *+ 2'-7*³/₄

Thickness of Back Plates at Steam Space Approved *1/2*

in Boilers *1/2*

Thickness of Steam Space Stays *1/2 + 1/2 + 1/2*

Diar. of Stays Approved *3/4*

in Boilers *3/4*

Material of *Steel*

How are Stays Secured *By Washers*

Diar. and Thickness of Loose Washers on End Plates *1/4 x 1/2*

Riveted *✓*

Doubling Straps *✓*

Thickness of Rivets Back End Plates Approved *1/2*

in Boilers *1/2*

Thickness of Doublings in Wide Spaces between End Plates *1/2*

End of Stays as *10 1/2 x 10 1/2*

Diar. of Stays Approved *3/4*

in Boilers *3/4*

Material *Steel*

Are Stays fitted with Nuts outside? *yes*

Thickness of Back End Plates at Bottom Approved *1/2*

in Boilers *1/2*

End of Stays at Wide Spaces between End Plates *10 1/2 x 10 1/2*

Thickness of Doublings *1/2*

Thickness of Front End Plates at Bottom Approved *1/2*

in Boilers *1/2*

No. of Rivets in Front End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *Hand*

Diar. of Rivet Holes *7/8* Pitch *3"*

No. of Rows of Rivets in Back End Circumferential Seams *2*

Are these Seams Hand or Machine Riveted? *Machine*

Diar. of Rivet Holes *4/8* Pitch *3*

Size of Manholes in Shell *16" x 12"*

Dimensions of Compensating Rings *2'-11 3/4 + 2'-7 3/4*



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Thickness of End Plates in Steam Space Approved $1\frac{1}{16}$ "

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

Pitch of Steam Space Stays $17\frac{1}{4} \times 15\frac{3}{4}$ "

Diar. " " " " Approved $2\frac{3}{4}$ " Threads per Inch 6

" " " " in Boilers $2\frac{3}{4}$ " " 6

Material of " " " Steel

How are Stays Secured? Double nuts & Washers

Diar. and Thickness of Loose Washers on End Plates $6" \times \frac{1}{4}"$

" " Riveted " " ✓

Width " " Doubling Strips ✓

Thickness of Middle Back End Plates Approved $1\frac{1}{16}$ "

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

Thickness of Doublings in Wide Spaces between Fireboxes None

Pitch of Stays at " " " $10\frac{1}{4} \times 9\frac{1}{2}"$

Diar. of Stays Approved $2\frac{7}{8}$ $2\frac{1}{8}$ Threads per Inch 9

" " in Boilers $2\frac{1}{8}$ " " 9

Material " Steel

Are Stays fitted with Nuts outside? Yes

Thickness of Back End Plates at Bottom Approved $1\frac{1}{16}$ "

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

Pitch of Stays at Wide Spaces between Fireboxes $10\frac{1}{4} \times 9\frac{1}{2}"$

Thickness of Doublings in " " None

Thickness of Front End Plates at Bottom Approved $1\frac{1}{16}$ "

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

No. of Longitudinal Stays in Spaces between Furnaces None

Thickness of End Plates in Steam Space Approved $1\frac{1}{16}$ "

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

Pitch of Steam Space Stays $17\frac{1}{4} \times 15\frac{3}{4}$ "

Diar. " " " " Approved $2\frac{3}{4}$ " Threads per Inch 6

" " " " in Boilers $2\frac{3}{4}$ " " 6

Material of " " " Steel

How are Stays Secured? Double nuts & Washers

Diar. and Thickness of Loose Washers on End Plates $6" \times \frac{1}{4}"$

" " Riveted " " ✓

Width " " Doubling Strips ✓

Thickness of Middle Back End Plates Approved $1\frac{1}{16}$ "

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

Thickness of Doublings in Wide Spaces between Fireboxes None

Pitch of Stays at " " " $10\frac{1}{4} \times 9\frac{1}{2}"$

Diar. of Stays Approved $2\frac{7}{8}$ $2\frac{1}{8}$ Threads per Inch 9

" " in Boilers $2\frac{1}{8}$ " " 9

Material " Steel

Are Stays fitted with Nuts outside? Yes

Thickness of Back End Plates at Bottom Approved $1\frac{1}{16}$ "

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

Pitch of Stays at Wide Spaces between Fireboxes $10\frac{1}{4} \times 9\frac{1}{2}"$

Thickness of Doublings in " " None

Thickness of Front End Plates at Bottom Approved $1\frac{1}{16}$ "

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

No. of Longitudinal Stays in Spaces between Furnaces None



Diam. of Screwed Stays Approved $2\frac{3}{8}$ " Threads per Inch 9
 " " " in Boilers $2\frac{3}{8}$ " 9
 Material " " Steel

Thickness of Combustion Chamber Sides Approved $\frac{11}{16}$ "
 " " " " in Boilers $\frac{11}{16}$ "
 Pitch of Screwed Stays in C.C. Sides $9" \times 9\frac{1}{4}"$
 Diam. " " Approved $1\frac{3}{4}$ " Threads per Inch 9
 " " " in Boilers $1\frac{3}{4}$ " 9
 Material " " Steel

Thickness of Combustion Chamber Backs Approved $\frac{11}{16}$ "
 " " " " in Boilers $\frac{11}{16}$ "
 Pitch of Screwed Stays in C.C. Backs $9" \times 9\frac{1}{2}"$
 Diam. " " Approved $1\frac{3}{4}$ " Threads per Inch 9
 " " " in Boilers $1\frac{3}{4}$ " 9
 Material " " Steel

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

Thickness of Combustion Chamber Bottoms $\frac{3}{4}$ "

No. of Girders over each Wing Chamber 3

" " " Centre " None

Depth and Thickness of Girders $9\frac{1}{2}" + (\frac{5}{8}" \times 2)$

Material of Girders Steel

No. of Stays in each 2

No. of Tubes, each Boiler 146

Size of Lower Manholes $16" \times 12"$

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 Crowns
 Thickness of Plates
 Description of Beams in Boiler Crown
 Diam. of Rivet Holes
 Width of Girders
 Height of Rivet Crowns above Fire Grate
 Are Rivet Crowns Flat or Dished?
 External Radius of Dished Crowns
 Thickness of Plates
 Material
 Diam. of Crown Stays
 No. of Crown Stays
 External Diam. of Rivet at Top
 Thickness of Plates
 No. of Water Tubes
 External Diam. of Water Tubes
 Material of Water Tubes
 Size of Manholes in Shell
 Dimensions of Compensating Ring
 Heating Surface, each Boiler
 Gross Surface

SUPERHEATERS

Description of Superheaters

Where situated?

Which Boiler are connected to superheater?
 Can superheaters be shut off while Boilers 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 _____

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

No. of Lengths	Material	Brand, Weight or Seamless	Internal Diar.	Thickness	How are Flanges secured?	Date of Hydraulic Test	Test Pressure
2 Pys	STEEL	L.W.S.	3 1/2	3/8	EXPANDED	30 Pys	200 LBS
2 Pys	STEEL	L.W.S.	3 1/2	3/8	EXPANDED	30 Pys	200 LBS



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MAIN STEAM PIPES.

No. of Lengths	2 PORT	2 STAR ^P
Material	STEEL	STEEL
Brazed, Welded or Seamless	L.W.S.	L.W.S.
Internal Diar.	3 1/2	3 1/2"
Thickness	5 W.G.	5 W.G.
How are Flanges secured?	SCREWED	EXPANDED
Date of Hydraulic Test	30/9/21	30/9/21
Test Pressure	540 LBS.	540 LBS.
External Radius of Elbowed Pipes		
No. of Lengths		
Material		
Brazed, Welded or Seamless		
Internal Diar.		
Thickness		
How are Flanges secured?		
Date of Hydraulic Test		
Test Pressure		
Description of Superheaters		
No. of Lengths		
Material		
Brazed, Welded or Seamless		
Internal Diar.		
Thickness		
How are Flanges secured?		
Date of Hydraulic Test		
Test Pressure		

SUPERHEATERS

FEED WATER HEATERS

No.	
Material	
Working Pressure	
Date of Test of Safety Valves under Steam	
Test Pressure	
Date of Test	
Working Pressure	
Material	
No.	

FEED WATER FILTERS

No.	
Material	
Working Pressure	
Date of Test	



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SPARE GEAR.

No. of Top End Bolts.	No. of Bot. End Bolts.	No. of Cylinder Cover Studs
2	2	
" Coupling Bolts / Set	" Main Bearing Bolts 2	" Valve Chest "
" Junk Ring Bolts	" Feed Pump Valves / Set	" Bilge Pump Valves / Set
" H.P. Piston Rings / Set	" I.P. Piston Rings / Set	" L.P. Piston Rings / Set
" " Springs / Set	" " Springs / Set	" " Springs / Set
" Safety Valve " 2	" Fire Bars 1/2 Set	" Feed Check Valves / Set
" Piston Rods	" Connecting Rods	" Valve Spindles 1
" Air Pump Rods 1	" Air Pump Buckets	" Air Pump Valves / Set
" Cir. " 1	" Cir. "	" Cir. " / Set
" Crank Shafts -	" Crank Pin Bushes / Set	" Crosshead Bushes / Set
" Propeller Shafts 1	" Propellers	" Propeller Blades
" Boiler Tubes 3	" Condenser Tubes 12	" Condenser Ferrules 24

OTHER ARTICLES OF SPARE GEAR:—

- 1 A.H. Eccentric Rod with Brasses & Bolts.
- 1 " " Strap with Bolts.
- 1 Valve Gear Quadrant Block.
- 1 Spring for each escape Valve fitted
- 1 Feed Pump Plunger.
- 2 Feed Check Valve Spindles
- 2 " " Shut off Spindles
- 1 Set Thermometer (Oil Fuel installation)
- 4 Burner Bodies
- 4 " Caps.
- 12 " Nozzles.
- 12 " Diaphragms.
- 1 Aux Heater Burner.
- 1 Set Fire brick Qualls.
- 1 Complete Set Water Values & Piston Rings for Aux Feed Pump.

- 1 Complete Set of Water Values & Piston Rings for Dry Pump.
- 1 " " " " for Ballast Pump.
- 1 - 1/2 Set of Values for Oil Fuel Transfer Pumps.
- Dynamo Spares.
- One Piston Valve.
- One " Rod.
- 2 Sets of Piston Rings
- 1 Pair each Crank Pin & Crosshead Brasses.



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REFRIGERATORS.

No. of Machines

33

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

Crank Shafts

Propeller Shafts

Water Tubes

Crank Shafts

Propellers

Cooling Tubes

Crank Shafts

Propeller Shafts

Cooling Tubes

LIST OF ARTICLES OF SPARE GEAR

1 A.H. Governor's Rod with Brasses & Bolts

1 " " Strap with Bolts

1 Valve Gear Quadrant Brackets

1 System of Refrigeration each escape valve fitted

1 " Insulation plunger

1 Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

1 Set of Spare Gears (for valves)

1 Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

1 Are all Bilge, Sounding, and Air Pipes in Insulated Spaces properly insulated?

1 Are Thermometer Tubes so arranged that Water cannot enter and freeze in them?

1 Date of Test under Working Conditions

12 " Discharge

1 Amp Heater Brasses

1 Set Two brass Quarts

1 Complete set Water Valves & Piston Rings for any year

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.
Saloon	30	30		2.50
Wardroom				
Cabin	22	30		
Navigation	3	30		
Hold	31	30		
	32	30		
	33	30		
	34	30		
	35	30		
	36	30		
	37	30		
	38	30		
	39	30		
	40	30		
	41	30		
	42	30		
	43	30		
	44	30		
	45	30		
	46	30		
	47	30		
	48	30		
	49	30		
	50	30		

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



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Total No. of Tons

Cases reported to Messrs. and Co.

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

Saloon on Stair leading to Provision Store
 4 Crew Space, 4 Plug in Wireless.
 6 Messroom. Hold Engine Room Top 6.
 Engine Room Store

Are Out-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No. 17 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 Run in Scrawled Galvanized Conduit
- (2) " " passing through Bunkers or Cargo Spaces Galvanized Jelling
- (3) " " Deck Beams or Bulkheads Zinc or Lead Bores

Are all Joints in Cables properly soldered and thoroughly insulated so that the efficiency of the Cables

is unimpaired? Yes

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Yes Tho.

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? Yes

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

Has the Insulation Resistance over the whole system been tested? Yes.

What does the Resistance amount to?

from 1.5 To 3 Megohms each main circuit
all in at 500 Volts. Ohms.

Is the Installation supplied with a Voltmeter?

Yes.

" " " an Ampere Meter?

Yes.

Date of Trial of complete Installation

25/1/21

Duration of Trial

6 hours.

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



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GENERAL CONSTRUCTION.

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

Approved Plans? *Yes*

If not, give details of the points of difference, and state when these were sanctioned by the Chief Surveyor.

Have tests been made to prove that this condition has been satisfactorily fulfilled? *Yes*

Has the insulation Resistance over the whole system been tested? *Yes*

Is the installation supplied with a Voltmeter? *Yes*

Date of trial of complete installation? *12/11/22*

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

On Main Switch Board, is there a means of earth connection? *Yes*

Is there a means of earth connection for the Auxiliary Circuit? *Yes*

Whenever a Cable is replaced is it replaced by a Cable of like size? *Yes*

Is each Lamp Covered? *Yes*

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*

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

Smallest Gauge Wire used, No. 17

The above correctly describes the Machinery of the S.S.

BARALT.

as ascertained by ^{us}me from personal examination

In order
LB

Thos Laurie
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.C. Cub. ft. : :

£ : :

Testing, &c. ... : :

£ : :

Expenses ... : :

Total ... £ : :

It is submitted that this Report be approved.

W. G. ...
Chief Surveyor.

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

15th March

1922

Fees advised

Fees paid



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Lloyd's Register Foundation
Secretary.

GENERAL CONSTRUCTION

MAIN BODIES	
H.R.	5d. H.
DOCKERY BODIES	
H.R.	5d. H.
ENGINEERS	
L.F.O.	Cap. H.
Total	

It is submitted that this Report be approved.

[Handwritten signature]

has been read at length and approved by the Committee for the Class of M.B.S. on the 10th day of March 1902.

[Handwritten signature]

Approved by the Committee for the Class of M.B.S. on the 10th day of March 1902.

BARALT

For advised

For paid

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