

No. 2366

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2368 No. in Register Book 3780.

N.N. Kaiyo Maru

" "
S.S. BRADBURN

Makers of Engines Central Marine Engine Works

Works No. 1035

Makers of Main Boilers Central Marine Engine Works

Works No. 1035

Makers of Donkey Boiler ✓

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 12th August 1930

Surveyor's Report on the New Engines, Boilers, and Auxiliary Machinery of the ~~Single Screw~~ Screw "Bradburn"

Official No.

Port of Registry

Registered Owners

Bideford.
Sir W.R. Smith, Sons & Co.

Engines Built by

Central Marine Engine Works

at

West Northwood

Main Boilers Built by

Central Marine Eng. Works

at

West Northwood

Donkey " "

at

Date of Completion

4-30

First Visit

12-8-29

Last Visit

30-4-30

Total Visits

50

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RECIPROCATING ENGINES.

Works No. **1035** No. of Sets **1** Description **Quadruple expansion
P.P. H. crks.**

No. of Cylinders each Engine **4** No. of Cranks **4**
Diams of Cylinders **20"-28½"-41½"-61"** Stroke **48"**

Cubic feet in each L.P. Cylinder **81.18**

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? **H.P. 1st & 2nd M.P.**

" each Receiver? **M.P. + L.P.**

Type of H.P. Valves, **Piston.**

1st I.P. "

2nd I.P. "

L.P. "

" Valve Gear **slide
Stephenson link.**

" Condenser **Surface.**

Diameter of Piston Rods (plain part) **6"**

Screwed part (bottom of thread) **H 5/32**

Material "

Diam. of Connecting Rods (smallest part) **6"**

Material **Iron.**

" Crosshead Gudgeons **6½"**

Length of Bearing **6½"**

Material **Steel 35 to 40 tons.**

No. of Crosshead Bolts (each) **4**

Diam. over Thrd **2½"**

Thrds. per inch **6**

Material **steel.**

" Crank Pin " **2**

" **3 3/8"**

" **6**

" Main Bearings **6**

Lengths **11 1/8, 21 1/8, 14 1/2, 14 1/2, 16 1/8, 13 1/8"**

" Bolts in each **2-4**

Diam. over Thread **2 7/8"**

Threads per inch **6**

Material **steel.**

" Holding Down Bolts, each Engine **115**

Diam. **1 3/8"**

No. of Metal Chocks **115**

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

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside? **no.**

If not, how are they fitted? **Fitted bolts with nuts & washers
each side of tank top plate.**

Connecting Rods, Forged by **Chubb.**

Piston " " **Dealville Sons**

Crossheads, " " **Chubb.**

Connecting Rods, Finished by **Chubb.**

Piston " " " "

Crossheads, " " " "

Date of Harbour Trial **16-4-39**

" Trial Trip **30-4-30**

Trials run at **Between Northwood & Lyme.**

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

If so, what was the I.H.P.? **1948**

Revs. per min. **82**

Pressure in 1st I.P. Receiver, **105** lbs., 2nd I.P., **38** lbs., L.P., **3.5** lbs., Vacuum, **25** ins.

Speed on Trial **11.7 knots.**

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?

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 H.P. Turbines at Full Power S.H.P.

" " 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 Knots. Propeller Revols. per min. S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

TURBO-ELECTRIC MACHINERY. DESCRIPTION OF INSTALLATION.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

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

Is Single or Double Reduction Gear employed?

Description of Motors

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

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 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 Knots. Propeller Revols. per min. S.H.P.



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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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No. of Blades each Propeller ⁴ Fitted or Solid? *split.*
 Material of Blades *brass* Boss *brass*
 Diam. of Propellers *18'-0"* Pitch *15'-0"* Surface (each *103* S. ft.)
 Coefficient of Displacement of Vessel at $\frac{3}{4}$ Moulded Depth

Crank Shafts Forged by *Vickers Armstrong*, Material *I.S.*
 " Pins " " " "
 " Webs " *Dealville Sons* " "
 Thrust Shafts " *Vickers Armstrong*, " "
 Intermed. " " " "
 Propeller " " " "
 Crank " Finished by *Clulew*
 Thrust " " " "
 Intermed. " " " "
 Propeller " " " "

STAMP MARKS ON SHAFTS.

Crank Shaft:-

B. G.
 N°489
 20-2-30
 J. D. S.

Thrust Shaft:-

B. G.
 N°490
 20-2-30
 J. D. S.

2. Intermediate Shafts:-

B. G.
 N°491
 6-5-30
 J. D. S.

Said Shaft:-

B. G.
 N°492
 6-3-30
 J. D. S.

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps
 Worked by Main or Independent Engines?
 No. of Circulating Pumps
 Type of
 Dist. of
 Section from sea
 Has each Pump a High Section with Non-return Valve?
 What other Pumps can discharge through Condensers?
 No. of Fuel Pumps on Main Engine
 Are Spring-loaded Relief Valves fitted to each Pump?
 Can one Pump be overhauled while the other is at work?
 No. of Independent Test Pumps
 What other Pumps can lead the Bellows?
 No. of High Pumps on Main Engine
 Can one Pump be overhauled while the other is at work?
 No. of Independent High Pumps
 What other Pumps can draw from the Bilges?
 Are all High Sections fitted with Bilge?
 Are the Valves, etc. connected to the main connection between sea and Bilges?
 Are all sea connections made with Valves or Cocks next to the Bilge?
 Are they placed so as to be easily accessible?
 Are the Distances between them below the Deck Level?
 Are they fitted direct to the Bilge fitting and easily accessible?
 Are all Pumps fitted with a Stopcock through the Bilge Fitting and Covering Pipes or Flanges on the Outside?



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BOILERS

Works No. ¹⁰³⁵

No. of Boilers **2** Type *Cylindrical multitubular*

Single or Double-ended *single.*

No. of Furnaces in each **3**

Type of Furnaces *Slighton*

Date when Plan approved *2-4-29*

Approved Working Pressure *260 lbs.*

Hydraulic Test Pressure *440 "*

Date of Hydraulic Test *19-2-30*

„ when Safety Valves set *16-4-30*

Pressure at which Valves were set *270 lbs.*

Date of Accumulation Test *16-4-30*

Maximum Pressure under Accumulation Test *270 lbs.*

System of Draught *C.A.*

Can Boilers be worked separately? *Yes*

Makers of Plates *Dealville Sons.*

„ Stay Bars

„ Rivets *R. B. & J. Co. Ltd.*

„ Furnaces *John Thompson.*

Greatest Internal Diam. of Boilers *15'-6"*

„ „ Length „ *11'-10"*

Square Feet of Heating Surface each Boiler *2755 sq*

„ „ Grate „ „ *55.4 sq*

No. of Safety Valves each Boiler **2** Rule Diam. Actual *2 1/2"*

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**

AUXILIARY MAIN BOILER.

¹⁰³⁵

1. *Cylindrical multitubular*

single.

2

Slighton.

2-4-29

260 lbs.

440 "

19-2-30

16-4-30.

270 lbs.

16-4-30

270 lbs.

C.A.

Yes

Dealville Sons

R. B. & J. Co. Ltd.

John Thompson.

12'-0"

10'-10 3/4"

1515 sq

34.7 sq

2

yes.

1

3

2

1

1

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

AUXILIARY

Handwritten notes and scribbles in the left margin, including "100 lbs" and "100 lbs".

Handwritten note: "Same as 1/5"

Thickness of Shell Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diap. of Rivets per Inch

in Boilers

Material of

How are stays secured?

Diam. and Thickness of Loose Washers on End Plates

Are they Riveted?

Width of Doubling Straps

Thickness of Middle Back and Plates Approved

in Boilers

Thickness of Doublings in Wide Spaces between Tubes

Pitch of Straps

Diap. of Rivets Approved

in Boilers

Material

Are stays fitted with Nut caps?

Thickness of Back and Plates at Bottom Approved

in Boilers

Pitch of Straps at Wide Spaces between Tubes

Thickness of Doublings

Diap. of Rivets Approved

in Boilers

Material

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes Pitch

Large handwritten note: "Victoria City" with a diagonal line through it.



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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

Thickness per Inch

Material

Thickness of Front End Plates Approved

" " " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

" " " " Thickness of Doubling in

" " " " Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back End Plates Approved

" " " " in Boilers

Pitch of Stay Tubes in Back End Plates

" " " " "

Thickness of Stay Tubes

" " " " "

Material

" " " " "

Thickness of Furnace Plates Approved

" " " " in Boilers

Smallest outside Diam. of Furnaces

Length between Tube Sheets



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Handwritten notes:
Same as [unclear]
Victoria City
[unclear]

Diar. of Stays Approved Threads per Inch

.. .. in Boilers

Material ..

Thickness of Front Tube Plates Approved

.. .. in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in

.. Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back Tube Plates Approved

.. .. in Boilers

Pitch of Stay Tubes in Back Tube Plates

.. Plain ..

Thickness of Stay Tubes

.. Plain ..

External Diar. of Tubes

Material ..

Thickness of Furnace Plates Approved

.. .. in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of Tops Approved

.. .. in Boilers

Pitch of Screwed Stays in C.O. Tops

Threads per Inch

Diar. of Screwed Stays Approved

.. .. in Boilers

Material ..

Thickness of Combustion Chamber Sides Approved

.. .. in Boilers

Pitch of Screwed Stays in C.O. Sides

Threads per Inch

.. .. Approved

.. .. in Boilers

Material ..

Thickness of Combustion Chamber Joints Approved

.. .. in Boilers

Pitch of Screwed Stays in C.O. Joints

Threads per Inch

.. .. Approved

.. .. in Boilers

Material ..

Are all Screwed Stays fitted with Nuts inside C.O.'s

Thickness of Combustion Chamber Bottoms

Pitch of Stays over and W. of Chamber



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Handwritten notes:
Victoria City
Saw as sps
90 mm

Diar. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

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

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

Same as 13 Victoria City

*Superheaters tubes fitted in
each boiler, boiler tubes in
water and the superheater
tubes fitted in the water.*



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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. *Superheating tubes fitted in Boiler tubes; headers & tubes in uptakes. made by the Superheater Co. London.*

Where situated? *In tubes uptakes.*

Which Boilers are connected to Superheaters? *2 Main Boilers.*

Can Superheaters be shut off while Boilers are working? *yes.*

No. of Safety Valves on each Superheater *2* Diar. *1 1/2" high lift.*

Are " " fitted with Easing Gear? *yes.*

Date of Hydraulic Test *6-3-30* Test Pressure *5-20 lbs.*

Date when Safety Valves set *16-4-30* Pressure on Valves *2 1/2 lbs.*

MAIN STEAM PIPES

No. of Pipes	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	

11-3-30 10-2-30 8-3-20 8-1-3-20

2-4-30 2-4-30 2-4-30

Superheating tubes fitted in Boiler tubes; headers & tubes in uptakes. made by the Superheater Co. London.

In tubes uptakes.

2 Main Boilers.

yes.

2 Diar. *1 1/2" high lift.*

yes.

6-3-30 Test Pressure *5-20 lbs.*

16-4-30 Pressure on Valves *2 1/2 lbs.*

Superheating tubes & headers tested at 14 lbs. makes works to 17 lbs.

MAIN STEAM PIPES.

No. of Lengths	2	2	1	1
Material	Steel Sawwelded.			
Brazed, Welded or Seamless				
Internal Diam.	4 3/8"	4 7/8"	4 7/8"	4 7/8"
Thickness	5/16"	5/16"	5/16"	5/16"
How are Flanges secured?	Brazed.			
Date of Hydraulic Test	11-3-30	10-3-30	28-3-30	31-3-30
Test Pressure	780 lbs.			

No. of Lengths	2	2	1
Material	Steel Sawwelded.		
Brazed, Welded or Seamless			
Internal Diam.	4 7/8"	4 7/8"	4 3/8"
Thickness	5/16"	5/16"	5/16"
How are Flanges secured?	Screwed.		
Date of Hydraulic Test	2-4-30	9-4-30	14-4-30
Test Pressure	780 lbs.		

Superheaters M. S. pipes.			
No. of Lengths	8	2	1
Material	Steel Sawwelded.		
Brazed, Welded or Seamless			
Internal Diam.	3 1/2"	3 1/2"	3 1/2"
Thickness	1/4"	1/4"	1/4"
How are Flanges secured?	Screwed.		
Date of Hydraulic Test	10-3-30	24-3-30	24-3-30
Test Pressure	780 lbs.		

STEAM EVAPORATORS.

No. of Lengths	2	1
Material	Steel Sawwelded.	
Brazed, Welded or Seamless		
Internal Diam.	4 7/8"	4 7/8"
Thickness	5/16"	5/16"
How are Flanges secured?	Brazed.	
Date of Hydraulic Test	11-2-30	12-2-30
Test Pressure	780 lbs.	

FEED WATER HEATERS.

No. of Lengths	1
Material	Steel Sawwelded.
Brazed, Welded or Seamless	
Internal Diam.	20"
Thickness	5/16"
How are Flanges secured?	Screwed.
Date of Hydraulic Test	2-3-30
Test Pressure	780 lbs.

FEED WATER FILTERS.

No. of Lengths	1
Material	Steel Sawwelded.
Brazed, Welded or Seamless	
Internal Diam.	20"
Thickness	5/16"
How are Flanges secured?	Screwed.
Date of Hydraulic Test	2-2-30
Test Pressure	780 lbs.



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EVAPORATORS.

No. 1 Type *Clulew.* Tons per Day *25*
 Makers *Centrap Marine Engine works*
 Working Pressure *15 lbs.* Test Pressure *50 lbs.* Date of Test *14-2-30*
 Date of Test of Safety Valves under Steam *16-4-30*

FEED WATER HEATERS.

No. 1 Type *Surface.* @
 Makers *Clulew.*
 Working Pressure *260 lbs.* Test Pressure *600 lbs.* Date of Test *2-3-30*
also one direct contact heater by Clulew.
tested to 50 lbs on 25-2-30.

FEED WATER FILTERS.

No. 1 Type *Gravity.* Size
 Makers *Clulew.*
 Working Pressure Test Pressure Date of Test

LIST OF DONKEY PUMPS.

Clulew. Ballast pump. *9" x 10 1/2" x 10" Duplex*
 " General Service " *4 1/2" x 5" x 6"*
 " Harbor Feed " *4 1/2" x 5 1/2" x 15" Singlex*
 " Oil Transfer " *6 1/2" x 8" x 18"*



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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 Machine				
Capacity	109		350	
Current Absorption of Compressor				
Single or Double Wire Rope				
Position of Dynamo				
Main Switch Board				
No. of Circuits to which Compressor is connected on Main Switch Board				
Particulars of other Circuits				
Notes				

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



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GENERAL CONSTRUCTION.

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

Approved Plans? *yes.*

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

Surveyor.

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy *yes.*

Is the Workmanship throughout thoroughly satisfactory? *yes.*

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

BRADBURN

as ascertained by ^{me}me from personal examination

J. W. Stephenson

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	5510 Sq. ft.	:	:	
G.S.	110.8 "	:	:	
<i>quit</i> Boilers BOILERS.				
H.S.	1575 Sq. ft.	:	:	
G.S.	34.7 "	:	:	
		£	:	:
ENGINES.				
L.P.C.	81.18 Cub. ft.	:	:	
		£	:	:
Testing, &c.		:	:	
		£	:	:
Expenses		:	:	
Total ...		£	:	:

It is submitted that this Report be approved,

W. H. King
Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the 20th August 1930.

Fees advised

Fees paid



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C. A. Massie
Secretary.



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