

No. 2044

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No.

1839

No. in Register Book

3149

S.S.

" HATANO "

Makers of Engines

Cunthorpe Dock Co. Ltd.

Works No.

275

Makers of Main Boilers

Blair Co. Ltd.

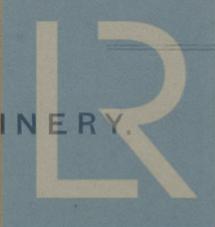
Works No.

A 748

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

*6th May 1925*

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the ~~Single Triple~~ <sup>Single Triple</sup> ~~Twin Quadruple~~ Screw Trawler.

*"Katana"*

Official No.

Port of Registry

*Cardiff.*

Registered Owners

*Heale Street Ltd.*

Engines Built by

*Cynthia & Co. Ltd.*

at

*South Bank-on-Sea.*

Main Boilers Built by

*Blair & Co. Ltd.*

at

*Stockton-on-Sea.*

Donkey " "

at

Date of Completion

*4-25*

First Visit

*9-1-25*

Last Visit

*15-4-25*

Total Visits

*35*



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## RECIPROCATING ENGINES

Works No. *275* No. of Sets *1* Description *Triple expansion, S.P. 3 cyles.*

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

Diars of Cylinders *13 1/4" - 23" - 34"* Stroke *27*

Cubic feet in each L.P. Cylinder *16.8*

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

" " " each Receiver? *Yes.*

Type of H.P. Valves, *Piston*

" 1st I.P. " *Piston*

" 2nd I.P. " *Slide.*

" L.P. " *Slide.*

" Valve Gear *Stephenson Link.*

" Condenser *Surface.* Cooling Surface *700* sq. ft.

Diameter of Piston Rods (plain part) *4* Screwed part (bottom of thread) *2.53*

Material " *Steel.*

Diar. of Connecting Rods (smallest part) *3 3/4"* Material *W.S.*

" Crosshead Gudgeons *3 3/4"* Length of Bearing *2 1/2"* Material

No. of Crosshead Bolts (each) *4* Diar. over Thrd. *1 3/4"* Thrds. per inch *7* Material *Steel.*

" Crank Pin " " *2* " *2 1/4"* " *6* " "

" Main Bearings *6* Lengths *8"*

" Bolts in each *2* Diar. over Thread *2"* Threads per inch *7* Material *Steel.*

" Holding Down Bolts, each Engine *43* Diar. *1 1/4"* No. of Metal Chocks *43*

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

*Smiths Walsend Lagg.*

Piston " "

Crossheads,

Connecting Rods, Finished by

*Smiths S.P.C.*

Piston " "

Crossheads,

Date of Harbour Trial

*19-3-25.*

" Trial Trip

*20-4-25*

Trials run at

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

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

*584*Revs. per min. *102.*Pressure in 1st L.P. Receiver, *60* lbs., 2nd L.P., *-* lbs., L.P., *10.9* 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.

Revs. per min.

Estimated Speed



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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 Revols. 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.



## SHAFTING.

Are the Crank Shafts Built or Sold?

*Built.*

No. of Lengths in each

*4*

Angle of Cranks

*120°*

Diar. by Rule

*4.104*

Actual

*4 3/8"*

In Way of Webs

*4 3/8"*

" of Crank Pins

*4.375"*

Length between Webs

*8"*

Greatest Width of Crank Webs

*14 1/2"*

Thickness

*4 5/8"*

Least

*11"*

"

*4 5/8"*

Diar. of Keys in Crank Webs

*1 1/4"*

Length

*3 3/8"*

" Dowels in Crank Pins

*1"*

Length

*3 1/2"*

Screwed or Plain

*Plain.*

No. of Bolts each Coupling

*4*

Diar. at Mid Length

*2 1/8"*

Diar. of Pitch Circle

*11 3/4"*

Greatest Distance from Edge of Main Bearing to Crank Web

*1/8"*

Type of Thrust Blocks

*Horseshoe type.*

No. " Rings

*4*

Diar. of Thrust Shafts at bottom of Collars

*7 3/8"*

No. of Collars

*4*

" " Forward Coupling

*7"*

At Aft Coupling

*7"*

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

*7.384"*

Actual

*8"*

At Couplings

*7"*

Are Propeller Shafts fitted with Continuous Brass Liners?

*yes.*

Diar. over Liners

*9"*

Length of After Bearings

*3'-0 1/2"*

Of what Material are the After Bearings composed?

*Signum Vitae*

Are Means provided for lubricating the After Bearings with Oil?

*no*

" " to prevent Sea Water entering the Stern Tubes?

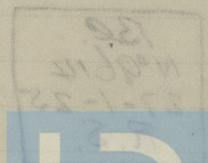
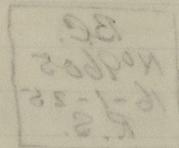
*no.*

If so, what Type is adopted?

## SKETCH OF CRANK SHAFT.

*Handwritten notes and sketches on the right page, including a diagram of a crankshaft and various measurements. The diagram shows a crankshaft with a main bearing and a crank web. The text includes 'SKETCH OF CRANK SHAFT.' and various handwritten notes and measurements.*

STAMP MARKS ON SHAFTS



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EXHIBIT OF PUMPS, ETC. TO SHIP

No. of Air Pumps 1      Diar. 1'-2"      Stroke 1'-1 1/2"

Worked by Main or Independent Engines? *main engines.*

No. of Circulating Pumps 1      Diar. ✓      Stroke ✓

Type of " *Centrifugal.*

Diar. of " Suction from Sea 5'-2"

Has each Pump a Bilge Suction with Non-return Valve? *yes.*      Diar. 4"

What other Pumps can circulate through Condenser? *Ballast Donkey.*

No. of Feed Pumps on Main Engine 2      Diar. 2 3/8"      Stroke 13 1/2"

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

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

No. of Independent Feed Pumps 1      Diar. 4 1/4"      Stroke 6"

What other Pumps can feed the Boilers? *Ballast Donkey.*

No. of Bilge Pumps on Main Engine 2      Diar. 2 3/8"      Stroke 13 1/2"

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

No. of Independent Bilge Pumps 1

What other Pumps can draw from the Bilges? *Bilge ejector, Ballast Donkey.*

Are all Bilge Suctions fitted with Roses? *yes.*

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

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

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

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

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

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges

on the Outside? *yes.*

BOILERS



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## BOILERS.

Works No. *A 448.*

No. of Boilers *1* Type *Cylindrical multitubular*

Single or Double-ended *single.*

No. of Furnaces in each *3*

Type of Furnaces *plain.*

Date when Plan approved

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 lbs.*

Date of Hydraulic Test *4-2-25*

„ when Safety Valves set *19-3-25*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *19-3-25*

Maximum Pressure under Accumulation Test *187 lbs.*

System of Draught *natural.*

Can Boilers be worked separately? *Yes.*

Makers of Plates *D. Calville Co.*

„ Stay Bars *D. Calville Co.*

„ Rivets *Blair Co. Ltd.*

„ Furnaces *W. Beardmore Co.*

Greatest Internal Diam. of Boilers *14'-0"*

„ „ Length „ *10'-9"*

Square Feet of Heating Surface each Boiler *1980 sq ft*

„ „ Grate „ „ *55.4 sq ft*

No. of Safety Valves each Boiler *2* Rule Diam. Actual *2 3/4"*

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

No. of Pressure Gauges, each Boiler *2* No. of Water Gauges *1*

„ Test Cocks „ *3* „ Salinometer Cocks *1*

Test Mark on Boilers:—

B.C. TEST  
 N<sup>o</sup> 4458  
 320 lbs.  
 W.P. 180 lbs.  
 4-2-25  
 J. D. S.

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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

*Same as spec*  
*Same as spec*  
*Same as spec*

Thickness of End Plates Approved

Thickness of End Plates 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

*Same as spec*  
*Same as spec*  
*Same as spec*



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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.C. Tops

*Same as of*



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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 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.C.?

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 per Yamma*

VERTICAL DONKEY BOILERS

No. of Boilers Type  
Greatest Lin. Diam.  
Height of Boiler Crown above Fire Grate  
Are Boilers Crown Flat or Dish'd?  
Internal Radius of Dish'd Boilers  
Thickness of Plates  
Description of Seams in Boiler Crown  
Diam. of Boiler Tubes  
Height of Firebox Crown above Fire Grate  
Are Firebox Crown Flat or Dish'd?  
General Radius of Dish'd Crown  
No. of Crown Stays  
Bottom  
Thickness of Plates  
No. of Water Tubes  
Diam. of Water Tubes  
Material of Water Tubes  
Diam. of Manhole in Shell  
Thickness of Compression Ring  
Leading rollers each boiler  
Unit weight

SUPERHEATERS

Description of Superheaters  
Water heated?  
Which boiler section is superheated?  
Can superheaters be shut off while boiler is working?  
No. of boiler tubes in each superheater  
Lloyd's Register Foundation  
Date when built? Value in  
Pressure in Tons



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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

1  
2  
3  
4  
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49  
50



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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.G.  
 brazed.  
 16-3-25  
 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

## EVAPORATORS

*Lead to Special Evaporator 14 7/8" dia  
 feed 10" dia 2 1/4" thick*

Working Pressure  
 Test Pressure  
 Date of Test

## FEED WATER HEATERS

Working Pressure  
 Test Pressure  
 Date of Test

## FEED WATER FILTERS

Working Pressure  
 Test Pressure  
 Date of Test



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## PUMPS SPARE GEAR

No. of Top End Bolts.	No. of Bot. End Bolts.	No. of Cylinder Cover Studs
2	2	
" Coupling Bolts 1 set.	" Main Bearing Bolts 2	" Valve Chest "
" Junk Ring Bolts 6	" Feed Pump Valves 1 set.	" Bilge Pump Valves 1 set.
" H.P. Piston Rings	" I.P. Piston Rings	" L.P. Piston Rings
" " Springs	" " Springs	" " Springs
" Safety Valve " 1	" Fire Bars 1/2 set.	" Feed Check Valves 1 set.
" Piston Rods	" Connecting Rods	" Valve Spindles
" Air Pump Rods	" Air Pump Buckets	" Air Pump Valves 1 set.
" Cir. "	" Cir. "	" Cir. "
" Crank Shafts	" Crank Pin Bushes	" Crosshead Bushes
" Propeller Shafts	" Propellers 1	" Propeller Blades
" Boiler Tubes 3	" Condenser Tubes 10	" Condenser Ferrules 20

## OTHER ARTICLES OF SPARE GEAR:-

4 C.C. Stay washers.  
 6 C.C. Stay nuts.  
 24 Assorted Studs Nuts.  
 2 Box. Woodpile Gudgeon Claws rings.  
 12 Gudgeon Claws.

## REFRIGERATORS



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## REFRIGERATORS.

No. of Machines *2* Capacity of each *2*  
 Makers *W. G. & Co. Ltd.*  
 Description *Vertical Piston*  
 No. of Steam Cylinders, each Machine *1* No. of Compressors *1* No. of Cranks *1*  
 Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently *None*

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.
<i>Hold No. 1</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 2</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 3</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 4</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 5</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 6</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 7</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 8</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 9</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 10</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 11</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 12</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 13</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 14</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 15</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 16</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 17</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 18</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 19</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>
<i>Hold No. 20</i>	<i>50</i>	<i>42</i>	<i>2 1/2</i>	<i>5 1/2</i>

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



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## ELECTRIC LIGHTING.

Installation Fitted by

R. Pickerequiel Sons.

No. and Description of Dynamos

One compound wound.

Makers of Dynamos

J. H. Holmes Co.

Capacity

45

Amperes, at

100

Volts,

350

Revol. per Min.

Current Alternating or Continuous

Continuous

Single or Double Wire System

Double

Position of Dynamos

Engine Room platform. Standard.

Main Switch Board

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

Four.

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.
Eng. Room & aft.	14	30	4.2	7/20	2146	5516	900
Navigation	6	32	7.2	7/20	"	"	"
Deck Light	43	30	12.6	7/18	2198	5231	"
Wireless	1/4 K.W.			7/22	1984	5283	1250

Total No. of Lights

63

No. of Motors driving Fans, &amp;c.

No. of Heaters

Current required for Motors and Heaters



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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? *Yls.*

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

Surveyor.

*[Faint, mostly illegible text and handwritten notes, possibly bleed-through from the reverse side of the page.]*

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

trustworthy? *Yls.*

Is the Workmanship throughout thoroughly satisfactory?

*Yls.*

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

"HATANO"

as ascertained by <sup>me</sup> from personal examination

*J. R. Pitheason*  
 Engineer Surveyor to the British Corporation for the  
 Survey and Registry of Shipping.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	1980 Sq. ft.	:	:	
G.S.	55.4 "	:	:	
<b>DONKEY BOILERS.</b>				
H.S.	✓ Sq. ft.	:	:	
G.S.	✓ "	:	:	
		£	:	:
<b>ENGINES.</b>				
L.P.O.	16.8 Cub. ft.	:	:	
		£	:	:
Testing, &c. ...		:	:	
		£	:	:
Expenses ...		:	:	
		£	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

*W. Steuart King*  
 Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the 20<sup>th</sup> May 1925

Fees advised

Fees paid



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 Foundation  
 Secretary.

GENERAL CONSTRUCTION

Foot--

Main Boilers

H.S. 1980

25.4

Deck Boilers

H.S.

25.4

Engines

L.V.C.

16.8

It is emphasized that this Report be approved

Approved by the Committee for the Class of M.E.S. on the 20th of August 1980

HATANO

Loss advised

Loss paid

Handwritten signatures and notes at the bottom of the page.



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