

No. 2320

TRANSFERRED TO:  
L. R. SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 2337 No. in Register Book 3739

" " TRANSFERRED TO:  
L. R. SYSTEM  
S.S. NODZU

Makers of Engines *Cunliffe Dock & Co. Ltd.*

Works No. 362  
Makers of Main Boilers *Blair & Co. (1926) Ltd.*

Works No. C. 420

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



TRANSFERRED TO:  
L. R. SYSTEM

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010096-010102-0002



THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Received at Head Office

Machinery of the ~~Single~~ ~~Triple~~  
~~Twin~~ ~~Quadruple~~

Port of Registry

Heale West:

at

at

a

12-29

12-8-29

Last Visit

Total Vis

30



## RECIPROCATING ENGINES.

Works No. 362

No. of Sets 1

Description

Triple expansion.  
S.C. Berke.

No. of Cylinders each Engine 3

No. of Cranks 3

Diars. of Cylinders

13 1/4" - 23" - 37"

Stroke 27"

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 I.P. Valves,

1st I.P. "

2nd I.P.,

L.P. "

" Valve Gear

" Condenser

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)

Dist. 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 Checks

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

Cunliffe &amp; Co. Ltd.

Piston " "

Crossheads,

Date of Harbour Trial

4-12-29

" Trial Trip

11-12-29

Trials run at

In North Sea.

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

Yes.

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

540

Revs. per min.

107

Pressure in 1st I.P. Receiver,

60

lbs., 2nd I.P.,

lbs., L.P., 10

Vacuum, 26 ins.

Speed on Trial

12 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 L.P. No. of L.P. No. of Stern

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

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of H.P. Turbines at Full Power S.H.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 Revs. per min. S.H.P.

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

## DESCRIPTION OF INSTALLATION.

No. of Turbo-Electric Motors

Capacity of each

Type of Turbine employed

Description of Generators

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

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors

" " 1st Reduction Shaft

" " 2nd "

Total Shaft Horse Power

Date of Harbour Trial

Trials run at

Speed on Trial Knots. Propeller Revs. 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.I.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 Coupling

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Length of After Bearings

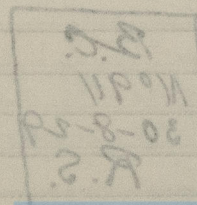
Of what Material are the After Bearings composed?

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

Pitted or Solid?

solid.

Material of Blades

Boss

Diam. of Propellers

Pitch

11'-3"

Surface (each

39

S. ft.)

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

Crank Shafts Forged by

Yife Yorgel Co.

Material

I.P.

Pins

Webs

Thrust Shafts

Intermed.,

Propeller

Crank Finished by

Thrust

Intermed.,

Propeller

STAMP MARKS ON SHAFTS.

Crank. Thrust  
Shafts:—

B.C.  
No 911  
30-8-29  
R.S.

## SKETCH OF PROPELLER SHAFT.

No. of Air Pumps  
Worked by Main or Independent Engines?  
No. of Circulating Pumps  
Type of  
Diam. of  
Section from Sea  
Diam.  
Does each Pump & Hinge Section with Non-return Valve?  
What other Pumps can circulate through Condenser?  
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?  
No. of Independent Feed Pumps  
What other Pumps can feed the Boilers?  
No. of Bilge Pumps on Main Engines  
Can one Pump be overhauled while the others are at work?  
No. of Independent Bilge Pumps  
What other Pumps can draw from the Bilge?  
Are all Bilge Pumps fitted with Non-return Valves?  
Are the Valves, etc., so arranged as to prevent a direct connection between Sea and Bilge?  
Are all Gas Connections made with Valves or Cocks near the Ship's side?  
Are they placed so as to be easily accessible?  
Are all Machinery Pumps placed above or below the Deep Load Line?  
Are they fixed to the Hull Plating and easily accessible?  
Are all Bilge Pumps fitted with valves which open through the Hull Plating and Covering Plates or Tangles on the Outside?

40/2  
10/5  
30/4

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No. of Boilers each Propeller

PUMPS, ETC.

No. of Air Pumps

Diar.

Stroke

Worked by Main or Independent Engines?

No. of Circulating Pumps

Diar.

Stroke

Type of

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 Ropes?

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

No. of Boilers

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 Drafting

Can Boilers be worked separately?

Makers of Boilers

Net Date

Rivers

Furnaces

Greatest Internal Diam. of Boilers

Length

Square Feet of Heating Surface each Boiler

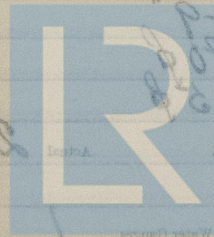
Diameter

No. of Boilers in each Row

Are the Safety Valves fitted with Raising Gears?

No. of Safety Valves fitted with Raising Gears

Test Cocks



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## BOILERS

Works No. *420*

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

Single or Double-ended *single.*

No. of Furnaces in each *3*

Type of Furnaces *plain.*

Date when Plan approved *18-6-29*

Approved Working Pressure *180 lbs.*

Hydraulic Test Pressure *320 "*

Date of Hydraulic Test *24-10-29*

" when Safety Valves set *4-12-29*

Pressure at which Valves were set *185 lbs.*

Date of Accumulation Test *4-12-29*

Maximum Pressure under Accumulation Test *185 lbs.*

System of Draught *natural.*

Can Boilers be worked separately? *Yls.*

Makers of Plates *James Dunlop & Co.*

*and D. Colville & Sons*

No. of Stay Bars *D. Colville & Sons*

" Rivets *Blair & Co.*

" Furnaces *W. Beardmore & Co.*

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? *Yls.*

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

Diar. " " Approved

" " in Boilers

Material of " " "

How are Straps Secured?

Pitch 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 Tripods

Pitch of Straps at

Diar. of Straps Approved

" " in Boilers

Material " "

Are Straps fitted with Nut Washers?

Thickness of Back End Plates at Bottom Approved

" " in Boilers

Pitch of Straps at Wide Spaces between Tripods

Thickness of Doublings in



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Thickness of End Plates in Steam Space Approved *on pillow*

Are the Washers Riveted *direct*

Pitch of Steam Space Stays *Stays*

Diam. of Stays Approved *Stays* Threads per Inch

Material of Stays in Boilers

Material of Stays in Boilers

How are Stays Secured? Approved

Diam. and Thickness of Loose Washers on End Plates

Are the Washers Riveted

Width of Doubling Strips

Are the Bolt Nuts Single or Double?

Thickness of Middle Back End Plates Approved

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

Diam. of Stays Approved Threads per Inch

Material of Stays in Boilers

Material of Stays in Boilers

Material of Stays in Boilers

Are Stays fitted with Nuts outside?

Are the Stays Riveted on Outside?

Thickness of Back End Plates at Bottom Approved

Thickness of Doublings in

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

No. of Rows of Rivets in Back End Circumferential Seams

Thickness of Front End Plates at Bottom Approved

Material of Stays in Boilers

No. of Longitudinal Stays in Spaces between Furnaces

Material of Stays in Boilers

Thickness of Stays Approved

Material of Stays in Boilers

Material of Stays in Boilers

Thickness of Front End Plates Approved

Material of Stays in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

Stays fitted with Nuts at Front End

Are Stays Riveted with Nuts at Front End

Thickness of Back End Plates Approved

Material of Stays in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

Material of Stays in Boilers

Material of Stays in Boilers

Material of Stays in Boilers

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Material of Stays in Boilers



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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.O. Tops

*same as s/s bkn*



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Material	..	..
----------	----	----

" " " " in Bollers

Diar.	"	"	Approved	Threads per Inch
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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100				

" " " in Boilers

Material "see above" with data on Forest Res.

### Thickness of Combustion Chamber Backs Approved

" " " " in Bollers

### Pitch of Screwed Stays in O.C. Backs

Diar.	"	"	Approved	Threads per Inch
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
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54	54	54	54	54
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80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87

" " " in Boilers

Material	"	"
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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

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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

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Date when Safety Valves set

Test Pressure

Pressure on Valves

## MAIN STEAM PIPES.

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

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 HEATERS.

No.

Type

Material

Date of Test

Test Pressure

Working Pressure

Date of Test of Safety Valves under steam

## FEED WATER HEATERS.

Type

Material

Date of Test

Test Pressure

Working Pressure

## FEED WATER FILTERS.

No.

Type

Material

Date of Test

Test Pressure

Working Pressure



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## MAIN EVAPORATORS.

No. ☒ Type Tons per Day

Makers

Working Pressure Test Pressure Date of Test

Date of Test of Safety Valves under Steam

Thickness

How are Flanges secured?

Date of Hydraulic Test FEED WATER HEATERS.

No. 1 Type

Makers

Working Pressure 180 lbs. Test Pressure 400 lbs. Date of Test 1-11-29

No. of Longitudinal

Material

Brazed, Welded or Seamless

## FEED WATER FILTERS.

No. ☒ Type

Makers

Working Pressure Test Pressure Date of Test

Date of Hydraulic Test

Test Pressure

How are Flanges secured?

Date of Hydraulic Test

No. of Longitudinal

Material

Brazed, Welded or Seamless

Internal Disc

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

## LIST OF DONKEY PUMPS.

Same as c/s "Oku"

49/10 3/4

400 lbs.

1-11-29



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

OTHER ARTICLES OF SPARE GEAR:—

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REFRIGERATORS.

No. of Machines	Capacity of each	No. of Cylinders
Makers	Make	Make
Description	Head	Valve
	L.P. Piston Rings	L.P. Piston Rings
	Spring	Spring
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.

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

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## REFRIGERATORS.

ADDIT TO SHEET

No. of Machines	Capacity of each	Temp. as taken at time of test	Temp. as taken at time of test	Temp. as taken at time of test
Time of day when test was made	Time required to obtain this result			
Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machine or Independently				

No. of Steam Cylinders, each Machine

No. of Compressors

No. of Cylinders

Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machine or Independently

System of Refrigeration

Evaporation

Articles of Spine Gear for Refrigerating Plant carried on board:

Is there any other machinery or apparatus on board which may be used for refrigeration?

Are all Hinge, Scumming and Air Pipes in Enclosed Spaces properly insulated?

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

Date of Test under Working Conditions

## ELECTRIC LIGHTING.

Installation Fitted by

R. Pickens &amp; Sons Ltd.

No. and Description of Dynamos

1. Compound wound

Makers of Dynamos

Dundee Lighthouse Co. Ltd.

Capacity

45

Amperes, at

100

Volts,

350

Revol. per Min.

Current Alternating or Continuous

Single or Double Wire System

Position of Dynamos

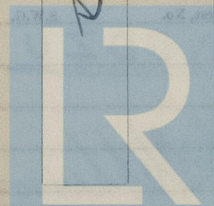
Main Switch Board

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

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
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same as c/s "C" R



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Total No. of Lights

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

No. of Heaters

Current required for Motors and Heaters



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

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 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.

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 Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired?

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?

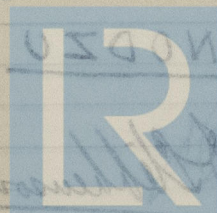
Ohms,

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation 11-12-29, Duration of Trial 6 hrs.

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.

## 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,

*James Barr* for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.\* on the *19<sup>th</sup> February 1930*

Fees advised

Fees paid



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Secretary.

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

*" NODZU "*

*J. D. Stephenson*

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



## GENERAL CONSTRUCTION

Have the Materials and Labor been used in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

It is submitted that this Report be approved.

Are the Materials used in the construction of the building in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*

Is the work being done in accordance with the approved plan?

Approved Plan: *yes* *1980* *82.8* *1980* *82.8*



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