

No. 2240

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2280 No. in Register Book 3665

" " "

S.S. KOS. VII

Makers of Engines Smiths Dock Co Ltd

Works No. 335

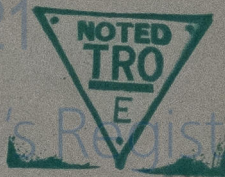
Makers of Main Boilers Blair No (1926) Ltd

Works No. 0.205

Makers of Donkey Boiler ✓

Works No. ✓

MACHINERY.



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14 38

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

18th December 1929

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Triple~~ ~~Twin Quadruple~~ Screw *Whaler.*

"K O S. VII"

Official No.

Port of Registry

Candejoid

Registered Owners

Hoalgaard & Selskabet Roskilde

Engines Built by

Smiths & Co. Ltd.
South Bank-on-Las.

at

Main Boilers Built by

Bell & Co. (1926) Ltd.
Stockton-on-Las.

at

Donkey ..

at

Date of Completion

6-29.

First Visit

25-2-29

Last Visit

19-6-29.

Total Visits

30

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RECIPROCATING ENGINES.

Works No.

335

No. of Sets

1

Description

Triple expansion.
3 Cyls.

No. of Cylinders each Engine

3

No. of Cranks

3

Diams of Cylinders

14"-23"-39"

Stroke

24"

Cubic feet in each L.P. Cylinder

16.6

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

" " " each Receiver?

Type of H.P. Valves,

1st I.P. "

2nd I.P.,

L.P. "

" Valve Gear

" Condenser

Diameter of Piston Rods (plain part)

Material

Diam. of Connecting Rods (smallest part)

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diam. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

" Main Bearings

Lengths

" Bolts in each

Diam. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diam.

No. of Metal Chocks

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

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

Connecting Rods, Forged by

Brown Bros.

Piston

Crossheads,

Connecting Rods, Finished by

Smiths & Co. Ltd.

Piston

Crossheads,

Date of Harbour Trial

13-6-29.

" Trial Trip

19-6-29

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.?

886

Revs. per min.

149

Pressure in 1st I.P. Receiver,

60

lbs., 2nd I.P.,

lbs., L.P.,

10.5

lbs., Vacuum,

25"

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 I.H.P.

Revs. per min.

Estimated Speed



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" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.

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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

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

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion

" 1st " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion

" 2nd " Wheel

} Width

Pitch of Teeth

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors "

" " 1st Reduction Shaft

" " 2nd "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revs. per min.

S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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Angle of Cranks

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

22 Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diar. at Mid Length

Diag. of Pitch Circle.

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No.	"	Rings
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
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99		
100		

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Length of After Bearings

Of what Material are the After Bearings composed ?

Are Means provided for lubricating the After Bearings with Oil?

" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted ?

SKETCH OF CRANK SHAFT.

18. R. 2.
No. 12-12.
C. J. 2.

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No. of Blades each Propeller

Fitted or Solid

Material of Blades

Diam. of Propellers

Pitch

Surface (each

S. ft.)

Coefficient of Displacement of Vessel at Moulded Depth

Crank Shafts Forged by

Material

Pins

"

"

Webs

"

"

Thrust Shafts

"

"

Intermed.,

"

"

Propeller

"

"

Crank " Finished by

"

Thrust

"

Intermed.,

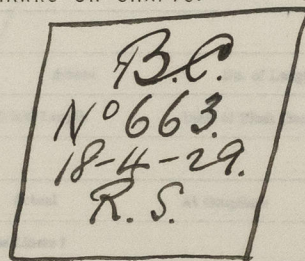
"

Propeller

"

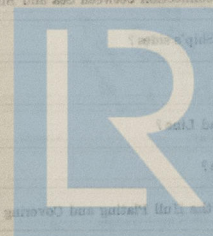
STAMP MARKS ON SHAFTS.

Crank. Thrust
/ Shaft Shafts:-



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
Has each Pump a High 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 High Pumps on Main Engines
Can one Pump be overhauled while the others are at work?
No. of Independent High Pumps
What other Pumps can draw from the bilges?
Are all High Sections fitted with Recess?
Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges?
Are all Sea Connections made with Valves near the ship's side?
Are they placed so as to be easily accessible?
Are the Discharges (above or below the Deep Lead Line)
Are they fitted with the Right Hand and Left Hand Valves?
Are all Bilge and Condenser Valves fitted with Right Hand and Left Hand Valves or Flanges on the Outside?



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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 Roses?

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

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

Are they placed so as to be easily accessible?

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

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

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

BOILERS.

Works No.

No. of Boilers

Single or Double-ended

No. of Furnaces in each

Type of Furnaces

Date when first 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

Systems of Heating

Can Boilers be worked separately?

Makers of Plates

Makers of Rivets

Makers of Stay Bars

Makers of Rivets

Makers of Furnaces

Closest External Diam. of Boilers

Length

Square Feet of Heating Surface

Grates

Makers of Grates

Are the Safety Valves fitted with Blow-off Pipes?

No. of Blow-off Pipes

Test Cocks



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BOILERS.

Works No. *C. 205.*

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

Single or Double-ended *single.*

No. of Furnaces in each *3*

Type of Furnaces *Wrighton*

Date when Plan approved *20-11-28*

Approved Working Pressure *200 lbs.*

Hydraulic Test Pressure *350 "*

Date of Hydraulic Test *30-5-29*

" when Safety Valves set *13-6-29*

Pressure at which Valves were set *206 lbs.*

Date of Accumulation Test *13-6-29*

Maximum Pressure under Accumulation Test *206 lbs.*

System of Draught *C.A.*

Can Boilers be worked separately? *yes*

Makers of Plates *James Dunlop & Co.*

" Stay Bars *Dobson & Co. Glasgow*

" Rivets *Blair & Co.*

" Furnaces *Beardmore & Co.*

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

" " Length " *11'-6"*

Square Feet of Heating Surface each Boiler *2292 sq. ft.*

" " Grate " " *55.7 sq. ft.*

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

Are the Safety Valves fitted with Raising Gear? *yes.*

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?

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

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



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Thickness of End Plates in Steam Space Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Diam. " " " " Approved Threads per Inch

" " " " " in Boilers

Material of " " "

How are Stays Secured?

Diam. 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 " " "

Diam. 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



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Diam. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diam. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diam. " " 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

VERTICAL DONKEY BOILERS

No. of Boilers
Type
Greatest Int. Diam.
Height
Height of Boiler Crown above Fire Grate
Are Boiler Crown Flat or Dished?
Internal Radius of Dished Ends
Description of Beams in Boiler Crown
Diam. of Rivet Holes
Pitch
Width of Overlap
Height of Firebox Crown above Fire Grate
Are Firebox Crown Flat or Dished?
Internal Radius of Dished Crown
Thickness of Plates
Diam. / Material
No. of Crown Stays
External Diam. of Firebox at Top
Bottom
Thickness of Plates
No. of Water Tubes
Ext. Diam.
Material of Water Tubes
Size of Manhole in Shell
Dimensions of Compressing Ring
Heating surface, each Boiler
Grate surface

SUPERHEATERS



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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

STEAM PIPES.



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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

1
copper.
S.D.
4 1/2"
4 w.g.
braked.
6-6-29.
400 lbs.

FEED WATER HEATERS

FEED WATER FILTERS



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EVAPORATORS.

No.	Type	Tons per Day
Makers		
Working Pressure	Test Pressure	Date of Test
Date of Test of Safety Valves under Steam		

FEED WATER HEATERS

No.	Type	
Makers		
Working Pressure	Test Pressure	Date of Test

FEED WATER FILTERS.

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

LIST OF DONKEY PUMPS.

Came as T.O.S. I

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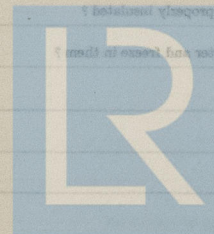
SPARE GEAR.

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

OTHER ARTICLES OF SPARE GEAR:—

REFRIGERATORS

No. of Machines	Capacity of each	Particulars of Pump in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently
Makers		
Description		
No. of Steam Cylinders, each Machine	No. of Compressors	No. of Cylinders
Particulars of Pump in connection with Refrigerating Plant and whether worked by Refrigerating Machines or Independently		



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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.

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

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R. E. F. LAMBERT'S PATENT

Capacity of each
Lamp to be
used
Lamp to be
used
Lamp to be
used

Description

No. of Circuits, Cables, and Wires

No. of Dynamos

No. of Cables

Particulars of Design in connection with the following (State and whether carried by the following Machines)

as follows

Particulars of Design

Particulars

Particulars of Design in connection with the following (State and whether carried by the following Machines)

Particulars of Design in connection with the following (State and whether carried by the following Machines)

Particulars of Design in connection with the following (State and whether carried by the following Machines)

Particulars of Design in connection with the following (State and whether carried by the following Machines)

Particulars of Design in connection with the following (State and whether carried by the following Machines)

Particulars of Design in connection with the following (State and whether carried by the following Machines)

All all Joints in Cables

ELECTRIC LIGHTING.

Installation Fitted by

No. and Description of Dynamos

Makers of Dynamos

Capacity " 40 Amperes, at 110 Volts, 350 Revols. per Min.

Current Alternating or Continuous

Single or Double Wire System

Position of Dynamos

" Main Switch Board

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

Particulars of these Circuits:—

Circuit.	Number of Lights.	Candle Power.	Current Required Ambs.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
----------	-------------------	---------------	------------------------	--------------------	------------------	----------------------------	---------------------------------

Are Circuits listed as follows?

On Main Switch Board to Cables of Main Circuit

On Aux.

Wherever a Cable is required in size

To each Lamp Circuit

To both Flow and Return Wires of an Circuit when the Dynamos are connected

Are the Lines of Standing Wires?

Are all Dynamos and Cables constructed to the following standards?

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

Are all single Wires and Cables, insulated for 100 V.

How are Connections in Cables and Wires made?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Are all Connections made in the following manner?

Total No. of Lights

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters

Back Beams or Ribs

(3)



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

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 Out-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 19-6-29. Duration of Trial

Chrs.

Have all the requirements of Section 42 been satisfactorily carried out? y/s.

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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? *yfs.*

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? *yfs.*

Is the Workmanship throughout thoroughly satisfactory? *yfs.*

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

as ascertained by *me* from personal examination

K O S. VII
J. D. Stephenson

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

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	<i>2292</i> Sq. ft.	:	:	:
G.S.	<i>55-7</i> "	:	:	:
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
		£	:	:
ENGINES				
L.P.O.	<i>16-6</i> Cub. ft.	:	:	:
		£	:	:
Testing, &c. ...		:	:	:
		£	:	:
Expenses ...		:	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

Gas Barro for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *23rd* December 1929

Fees advised

Fees paid



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Foundation
Secretary.

GENERAL CONSTRUCTION

Foot—

1. The following items are included in the estimate of the cost of the work to be done:

2. The following items are included in the estimate of the cost of the work to be done:

3. The following items are included in the estimate of the cost of the work to be done:

4. The following items are included in the estimate of the cost of the work to be done:

5. The following items are included in the estimate of the cost of the work to be done:

6. The following items are included in the estimate of the cost of the work to be done:

7. The following items are included in the estimate of the cost of the work to be done:

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9. The following items are included in the estimate of the cost of the work to be done:

10. The following items are included in the estimate of the cost of the work to be done:

11. The following items are included in the estimate of the cost of the work to be done:

12. The following items are included in the estimate of the cost of the work to be done:

13. The following items are included in the estimate of the cost of the work to be done:

14. The following items are included in the estimate of the cost of the work to be done:

15. The following items are included in the estimate of the cost of the work to be done:

It is submitted that this report be approved.

1. The following items are included in the estimate of the cost of the work to be done:

2. The following items are included in the estimate of the cost of the work to be done:

3. The following items are included in the estimate of the cost of the work to be done:

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10. The following items are included in the estimate of the cost of the work to be done:

11. The following items are included in the estimate of the cost of the work to be done:



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