

No. 2241

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 2232 No. in Register Book 3615

" N/M. PICTON "

S.S. MEADCLIFFE HALL

Makers of Engines

Swanwick Dock Co. Ltd.

Works No.

336

Makers of Main Boilers

Blair & Co. (1926) Ltd.

Works No.

C. 174

Makers of Donkey Boiler

Works No.

MACHINERY.

Lloyd's Register
Foundation

003525-003532-0109

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

8th November 1929

Surveyor's Report on the New Engines, Boilers and Auxiliary
Machinery of the ~~Single Screw~~ Twin Screw ~~Steamer~~ Meadecliffe Hall

Official No.

160716

Port of Registry

Middlesbrough.

Registered Owners

Hall Corporation of Canada.

Engines Built by

Smyth, Dock & Co. Ltd.

at

South Bank-on-Sea.

Main Boilers Built by

Blaiss & Co. (1926) Ltd.

at

Stockton-on-Tees.

Donkey " "

at

Date of Completion

3-29.

First Visit

19-11-28

Last Visit

R 3-29

Total Visits

40

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RECIPROCATING ENGINES.

Works No.

336.

No. of Sets

1

Description

Triple expansion.
L.C. 3 crks.

No. of Cylinders each Engine

3

No. of Cranks

3

Diars of Cylinders

15" - 25" - 40"

Stroke

33"

Cubic feet in each L.P. Cylinder

24.

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

yes.

" " each Receiver?

yes.

Type of H.P. Valves,

Piston.
Slide.

1st I.P.,

2nd I.P.,

L.P.,

" Valve Gear

" Condenser

Slide.
Stephenson link.
Surface.

Cooling Surface

204 sq. ft.

Diameter of Piston Rods (plain part)

4 1/4"

Screw part (bottom of thread)

2 3/4"

Material

M.S.

Diar. of Connecting Rods (smallest part)

4"

Material

M.S.

" Crosshead Gudgeons

3 7/8"

Length of Bearing

8 1/4"

Material

"

No. of Crosshead Bolts (each)

4

Diar. over Thrd.

8 1/4"

Thrs. per inch

5

Material

M.S.

" Crank Pin

2

"

"

2 1/4"

Thrs. per inch

6

Material

"

" Main Bearings

6

Lengths

8 3/8"

" Bolts in each

2

Diar. over Thread

2"

Threads per inch

7

Material

M.S.

" Holding Down Bolts, each Engine

5-5

Diar.

1 3/4"

No. of Metal Chocks

55

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?

yes.

If not, how are they fitted?

Connecting Rods, Forged by

Brown Bros.

Piston

" "

Crossheads

"

Connecting Rods, Finished by

Smiths Dock & Co. Ltd.

Piston

" "

Crossheads

"

Date of Harbour Trial

6-3-29.

" Trial Trip

8-3-29.

Trials run at

In Las Bay.

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

yes.

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

820

Revs. per min. 109.

Pressure in 1st I.P. Receiver,

58

lbs., 2nd I.P.,

lbs., L.P.,

11

lbs., Vacuum,

24 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 I.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

" 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 "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial

Knots. Propeller Revs. per min.

S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

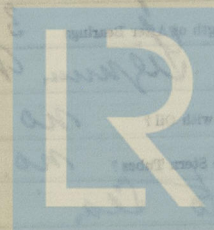
Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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SHAFTING.

Are the Crank Shafts Built or Solid?

Built.

No. of Lengths in each

Diar. by Rule

" of Crank Pins

Greatest Width of Crank Webs

Least " "

Diar. of Keys in Crank Webs

" Dowels in Crank Pins

No. of Bolts each Coupling

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diar. of Thrust Shafts at bottom of Collars

" " Forward Coupling

Diar. of Intermediate Shafting by Rule

No. of Bolts, each Coupling

Diar. of Propeller Shafts by Rule

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

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?

Angle of Cranks

In Way of Webs

Length between Webs

Thickness

Length

Length

Screwed or Plain

Diar. at Mid Length

Diar. of Pitch Circle

to Crank Web

*Horseshoe type.**5*

No. of Collars

At Aft Coupling

Actual

No. of Lengths

Diar. at Mid Length

Diar. of Pitch Circle

Actual

At Couplings

yds.

Length of After Bearings

*Signum Vilas.**no**no.**Open to Sea.*

SKETCH OF CRANK SHAFT.



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Material of Blades

Diar. of Propellers

Coefficient of Displacement of Vessel at 1 Moulded Depth

Crank Shafts Forged by

“ Pins ”

“ Webs ”

Thrust Shafts 13

Intermed. " "

Propeller " "

Crank „ Finished by

Thrust " "

Intermed., „

Propeller " "

Fitted or Solid ?

Bogs

Surface (each)

۵۷

S. It.)

Material

STAMP MARKS ON SHAFTS.

Crank Thrust &
Tail Chaps:—

B.C.
N° 214
14-12-28.
R. S.

SKETCH OF PROPELLER SHAFT.

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LOVE'S REELS

on the Quality of

PUMPS, ETC.

No. of Air Pumps

1

Diar.

4"

Stroke

16 1/2"

Worked by Main or Independent Engines?

Main engines.

No. of Circulating Pumps

1

Diar.

10"

Stroke

10"

Type of

"

Vertical duplex.

Diar. of

"

Suction from Sea

7"

Has each Pump a Bilge Suction with Non-return Valve?

yes.

Diar.

4 3/4"

What other Pumps can circulate through Condenser?

Ballast pump.

No. of Feed Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 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.

Stroke

What other Pumps can feed the Boilers?

General Services.

No. of Bilge Pumps on Main Engine

2

Diar.

2 3/4"

Stroke

16 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?

Ballast, General Services.

Are all Bilge Suctions fitted with Roses?

Mud boots, tail pipes.

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?

yes. 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.

Type

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 Examination Test

Maximum Pressure under Examination Test

System of Drafting

Can Boilers be worked separately?

Number of Tubes

Type of Tubes

Number of Tubes

Type of Tubes

Greatest Internal Dia. of Boilers

Type of Tubes

Number of Tubes

Type of Tubes

Number of Tubes

Type of Tubes

Number of Tubes

Type of Tubes



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BOILERS.

Works No.

No. of Boilers

2

Type

Cylindrical multitubular
Single

Single or Double-ended

No. of Furnaces in each

2
Slightly

Type of Furnaces

Date when Plan approved

Approved Working Pressure

180 lbs.

Hydraulic Test Pressure

320 "

Date of Hydraulic Test

22-1-29.

" when Safety Valves set

6-3-29.

Pressure at which Valves were set

185 lbs.

Date of Accumulation Test

6-3-29.

Maximum Pressure under Accumulation Test

185 lbs.

System of Draught

C.A.

Can Boilers be worked separately?

Yes.

Makers of Plates

James Dunlop & Co. Ltd.

" Stay Bars

James Dunlop & Co. Ltd.

" Rivets

Blair & Co. Ltd.

" Furnaces

Brookside St & Co. @

Greatest Internal Diam. of Boilers

10' 4 3/8"

" " Length "

10' 9 1/2"

Square Feet of Heating Surface each Boiler

1128 sq ft

" " Grate " "

33.8 sq ft

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

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

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

*on pillars.
direct.*

valves.

*2
3/16"*

3/16"

*steep
butt.*

double.

5/8"

3/4"

machine.

treble.

5

6 1/8"

2

hand.

3.48"

1"

3.48"

2

machine.

3.48"

16" x 12"

2'-10" x 2'-6" x 1 3/16"



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Thickness of End Plates in Steam Space Approved

 $1\frac{1}{32}$ "

" " " " " in Boilers

 $1\frac{1}{32}$ "

Pitch of Steam Space Stays

 $16\frac{1}{4}$ " \times $13\frac{1}{2}$ "

Diar. " " " " Approved

 $2\frac{7}{8}$ "

Threads per Inch

6

" " " " " in Boilers

 $2\frac{7}{8}$ "

6

Material of " " "

stat.
double nut washers.

How are Stays Secured?

 $10\frac{1}{4}$ " \times $1\frac{1}{16}$ "

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

Width " " Doubling Strips "

Thickness of Middle Back End Plates Approved

 $1\frac{1}{32}$ " $1\frac{1}{32}$ "

" " " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

 $1\frac{3}{4}$ " 14 " \times $8\frac{1}{8}$ "

Diar. of Stays Approved

 $1\frac{3}{4}$ "

Threads per Inch

9

" " " in Boilers

stat.

Material "

Are Stays fitted with Nuts outside?

yes.

Thickness of Back End Plates at Bottom Approved

 $1\frac{1}{32}$ " $1\frac{1}{32}$ "

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

 14 " \times $8\frac{1}{8}$ "

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

 $1\frac{1}{32}$ " $1\frac{1}{32}$ "

" " " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces



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Diar. of Stays Approved

 $2\frac{1}{2}"$
 $2\frac{1}{4}"$
 Threads per Inch 6

" " in Boilers

Material "

steel.

Thickness of Front Tube Plates Approved

 $1\frac{1}{32}"$
 $1\frac{1}{32}"$

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

 $13\frac{1}{2}" \times 7\frac{1}{2}"$

Thickness of Doublings in

" " "

 $5\frac{1}{16}"$

" Stay Tubes at

" " "

Are Stay Tubes fitted with Nuts at Front End?

Top margin only.

Thickness of Back Tube Plates Approved

 $13\frac{1}{16}"$
 $13\frac{1}{16}"$

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

 $7\frac{1}{2}" \times 8\frac{1}{4}"$
 $3\frac{3}{4}" \times 3\frac{5}{4}"$
 $3\frac{1}{8}" \times 5\frac{1}{16}"$

" Plain "

Thickness of Stay Tubes

" Plain "

 $9\frac{1}{16}"$
 $2\frac{1}{2}"$

External Diar. of Tubes

Material "

 $15\frac{1}{32}"$
 $15\frac{1}{32}"$

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

 $2-11\frac{7}{16}"$
 $7'-6\frac{3}{8}"$

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

 $2'-7\frac{1}{2}"$

Thickness of " " Tops Approved

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

" " " " in Boilers

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

Pitch of Screwed Stays in C.O. Tops

 $9\frac{1}{2}" \times 9"$


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Diar. of Screwed Stays Approved

Threads per Inch

9

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Sides

Diar. " " Approved

Threads per Inch

9

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " in Boilers

Pitch of Screwed Stays in C.O. Backs

Diar. " " Approved

Threads per Inch

9

" " " 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
Description of Boilers
Height of Boiler Crown above Fire Grate
Are Boiler Crowns Flat or Dished?
Internal Radius of Dished Ends
Description of Boilers in Boiler Crowns
Width of Crowns
Diar. of Holes in Boilers
Height of Pinches Crowns above Fire Grate
Are Pinches Crowns Flat or Dished?
External Radius of Dished Crowns
No. of Crown Stays
Diar.
Material
Thickness of Plates
External Diar. of Pinches at Top
No. of Water Tubes
Diar. Diar.
Thickness
Material of Water Tubes
Diar. of Manholes in Boilers
Description of Combustion Ring
Heating Surface, each Boiler
Gross Surface

SUPERHEATERS

Description of Superheaters

When started?

Which Boilers are connected to Superheaters?
Can Superheaters be shut off while Boilers are working?



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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



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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

4
Copper.
S. D.
3 1/2"
7 W.S.
braced.
20-2-29.
400 lbs.

6" x 4" x 1/2" "Water supply" "Water supply"
"Water supply" "Water supply"

3 1/2" x 3 1/2" x 1/2" "Water supply" "Water supply"

3 1/2" x 3 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"

7 1/2" x 4 1/2" x 1/2" "Water supply" "Water supply"



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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
1		Walden / Broag	180 lbs.	400 lbs.	

FEED WATER FILTERS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
1		Ingersoll / Pallock	180 lbs.	400 lbs.	

LIST OF DONKEY PUMPS.

No.	Type	Makers	Working Pressure	Test Pressure	Date of Test
6" x 4" x 6"	Vertical duplex	General Service			
3 1/2" x 3 1/2" x 4"	Duplex	Sanitary			
3 1/2" x 3 1/2" x 4"	Duplex	Fresh water			
9 1/2" x 11 1/2" x 4"	Vertical duplex	Ballast Pump			



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OTHER ARTICLES OF SPARE GEAR:—

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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ELECTRIC LIGHTING.

Installation Fitted by

R. Pickensque, Sons Ltd.

No. and Description of Dynamos

One compound wound
Lundeland Large Eng Co Ltd.

Makers of Dynamos

Capacity

110 baths, at 350 Revs. $\frac{1}{2}$ H.P. W.

Current Alternating or Continuous

Continuous.

Single or Double Wire System

Double.

Position of Dynamos

Starting platform.

Main Switch Board

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

4

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.
Irrigation	8	370	3.4	$\frac{1}{2}$ 0.29	I.E.C. Rules.	I.E.C. Rules.	600 meg.
Engineers	32	960	9	$\frac{1}{2}$ 0.44	"	"	"
Engine Room	24	720	2.2	$\frac{1}{2}$ 0.29	"	"	"
Forward Accommodation	3.9	1170	11.7	$\frac{1}{2}$ 0.44	"	"	"

Total No. of Lights

103

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters



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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. 1/044 S.W.G., Largest, No. 19/044 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?

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation

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



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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.

MEADCLIFFE HALL

as ascertained by ^{me} from personal examination

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

Fees—

MAIN BOILERS.

		£	s.	d.
H.S.	<i>2256</i> Sq. ft.	:	:	:
G.S.	<i>64.6</i> "	:	:	:

DONKEY BOILERS.

H.S.	Sq. ft.	:	:	:
G.S.	"	:	:	:
	£	:	:	:

ENGINES.

L.P.O.	<i>24</i> Cub. ft.	:	:	:
	£	:	:	:
Testing, &c. ...		:	:	:
	£	:	:	:
Expenses ...		:	:	:
Total ...	£	:	:	:

It is submitted that this Report be approved,

Jas Barr

for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *13th November 1929.*



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Fees advised

Fees paid

Lloyd's Register
 Foundation
 Secretary.

GENERAL CONSTRUCTION

Page

Have the following items been checked and found correct and complete?

Main Building

General Plan

S.S. 1222

If the following items have been checked and found correct and complete, please check the appropriate box.

DOWNEY BUILDING

S.S.

S.S.

S.S.

S.S.

ENGINEER

L.D.

S.S.

Testing, etc.

Expense

(Total)

It is submitted that this Report be approved.

Chief Engineer

Approved by the Committee for the Class of M.E.S. on the 17th of 1911

MEADCLIFFE HALL

Date of trial

Date paid



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