

No. 734

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 692 No. in Register Book 1222

EASTERN MED

S.S. MAPLETON

Makers of Engines N. E. Marine Eng. Co. Ltd.

Works No. 1895

Makers of Main Boilers N. E. Marine Eng. Co. Ltd.

Works No. 1895

Makers of Donkey Boiler

None.

Works No.

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
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Report No. _____ No. in Register Book _____

Received at Head Office

5 August 1909

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the Steel Screw Steamer

"Mapleton"

Port of Registry

Sunderland

Registered Owners

Merchant Steam Ship Co Ltd.

Surveyor's District

Wear & Tees.

Date of Completion of Engines

7-09

" " " Main Boilers

7-09

" " " Donkey

Trial Run at

North Sea

Date 5-7-09

First Visit

24-2-09

Last Visit

6-7-09

Total Number of Visits

27

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ENGINES.

Made by	1. & Marine Eng. Co. Ltd.			
" at	Sunderland			
Description	Triple expansion, S. E. 3 cranks			
No. of Cylinders, each Engine	3	Diars.	17"-28"-46"	Stroke 33"
Cub. feet in each L.P. Cylr.	31.73	Revs. per Min.	91	I.H.P. 900
Pressure in I.P. Receiver at full Power	57	2nd I.P.	✓	L.P. 9½
Thickness of Metal in H. P. Cylr.	1½"	I.P.	1½"	✓ 1½"
" " " " Liner	✓	"	✓	" ✓
" " " " Valve Chest	1"	"	¾"	" ¾"
Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.?	Yes			
" " " " each Receiver?	I.P. L.P.			
Number of Studs in H.P. Cylr. Cover	14	I.P.	18	2nd I.P. ✓ L.P. 22
H.P. Diar.	1½"	"	1½"	✓ 1½"
Pitch	4½"	"	5¾"	✓ 7"
Type of H.P. Valves (Piston or Slide)	Piston	"	Slide	✓ Slide
" Valve Gear	Stephenson's link motion.			
Diameter of Piston Rods (plain part)	4½"	At Bottom of Thread	3.28"	
Makers	Northumberland Forge		Material	Iron
Diameter of Connecting Rods (smallest part)	4¾"	Material	Iron	
Makers	Northumberland Forge			
Diars. of Crosshead Gudgeons	5"	Length of Bearing	7¼"	Material Steel
No. of Top End Bolts (each Rod)	2	Effective Diar.	2¼"	Material Iron
" Bot. " "	2	"	2¼"	" Iron
" Main Bearings	6	Lengths	9"	
" Bolts in each	2	Effective Diar.	2"	Material Iron

No. of Holding Down Bolts, each Engine **34** No. of Metal Checks **34**
 Eff. Diar. " " " **1 1/2"** Average Pitch **21"**
 Are the Engines bolted directly to the Tank Top? **Yes**
 Are the Bolts tapped through the Tank Top and fitted with Nuts inside? **No**
 Date of Test of Tank by Water Pressure with Holding Down Bolts in place **6-7-09**

SKETCHES

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SKETCHES.

SHAFTING.

Are Crank Shafts Built? *Yes* No. of Lengths in each *3* Angle of Cranks *170°*
 Diam. of Crank Shafts by Rule *8.99"* Actual *9½"* Diam. in Way of Webs *10"*
 Makers of *Bochumer Verein* Material *J. S.*
 Diam. of Crank Pins *9½"* Diam. in Way of Web *9½"*
 Makers of *Bochumer Verein* Material *J. S.*
 Width across Crank Webs at Centre of Shaft *19½"* Thickness *5¾"*
 " " " " Crank Pins *18"* " " " " *8½" rad.*
 " " " " Narrowest part *8½" rad.* " " " " *"*
 Makers of Crank Webs *Spencer, Newburn* Material *J. S.*
 Diam. or Breadth of Keys in Crank Webs *1¾"* Length *5"*
 " of Dowel Pins in Crank Pins *1"* Length *3"* Screwed or Plain *Screwed*
 No. of Bolts in each Coupling *6* Diam. at Mid Length *2¼"* Diam. of Pitch Circle *14"*
 Material of Coupling Bolts *Steel*
 Crank Shafts Finished by *N. S. Marine Eng. Co. Ltd, Sunderland.*
 Greatest Distance from edge of Main Bearing to Crank Web *Clearance.*
 Description of Thrust Blocks *adjustable m.m. screw.*
 Number *5* Rings
 Diam. of Thrust Shafts by Rule *8.99"* Actual (at bot. of Collars) *9½"* Over Collars *15½"*
 " " " at Forward Coupling *9½"* After Coupling *9"*
 No. of Thrust Collars *5* Thickness *2½"* Distance apart *3"*
 Thrust Shafts Forged by *Bochumer Verein* Material *J. S.*
 " Finished by *N. S. Marine Eng. Co. Ltd, Sunderland.*
 Diam. of Intermediate Shafting by Rule
 No. of Lengths, each Engine
 Diam. of Bearings Length Distance apart

No. of Bolts, each Coupling Diar. at Mid Length Diar. of Pitch Circle

Intermediate Shafts Forged by

Material

Finished by

X Diar. of Propeller Shafts by Rule 10.14 Actual 10.4 At Couplings 9.5

Are Propeller Shafts fitted with Continuous Brass Liners?

Yes

Diar. over Liners

11 3/8"

Length of After Bearings

3'-6"

Of what Material are the After Bearings composed?

Brass + lignum-vitae

Distance from After Bearing in Stern Tube to nearest Tunnel Bearing

Are the After Bearings lubricated with Oil or Sea Water?

Sea Water

What means are adopted to prevent Sea Water entering the Stern Tubes?

Propeller Shafts Forged by

Northumberland Forge

Material

Iron

Finished by

H. & Marine Eng. Co. Ltd

8' land

No. of Propellers

one

Diar.

12'-0"

Pitch

12'-6"

Blades, each Propeller

4

Fitted or Solid

Fitted

X Material of Blades

cast iron

Boss

cast steel X

Surface, each Propeller

56 #

Diar. of Propeller Rule Diar. of Crank Shaft =

16.01

Coefficient of Displacement of Vessel at 1/2 Moulded Depth

795

TO SKETCHES



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TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of L.P. Turbines

No. of Astern "

How arranged

Revs. per Min.

Horse Power

Diar. of H.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of H.P. Turbine Casings

Lengths of Blades in H.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of L.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of L.P. Turbine Casings

Lengths of Blades in L.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Astern Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of Astern Turbine Casings

Lengths of Blades in Astern Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Turbine Spindles

Length of Bearing

No. of Thrust Collars on each Spindle

Thickness

Distance apart

Diar. of Spindles at Bottom of Collars

Diar. over Collars

Spindles Forged by

Material

" Finished by

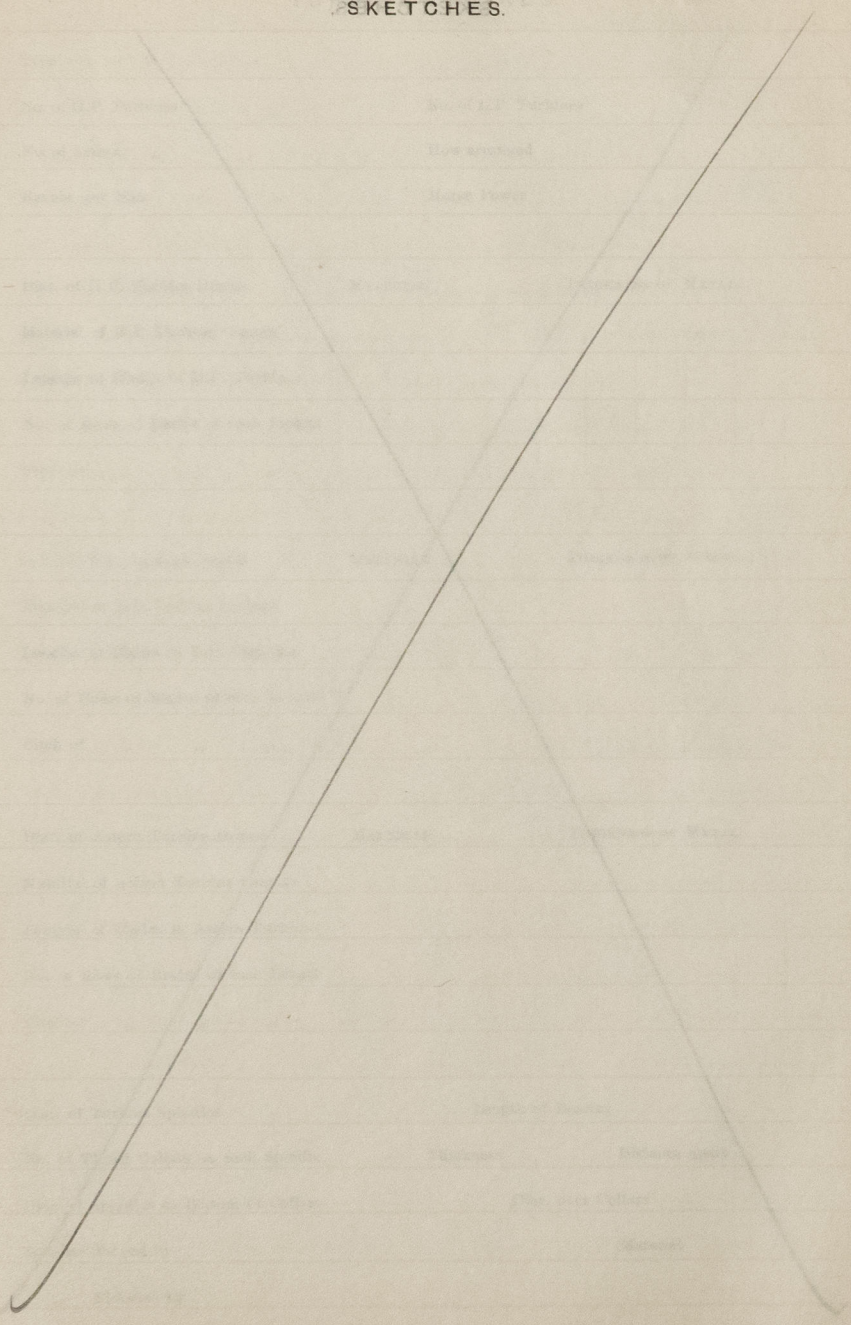
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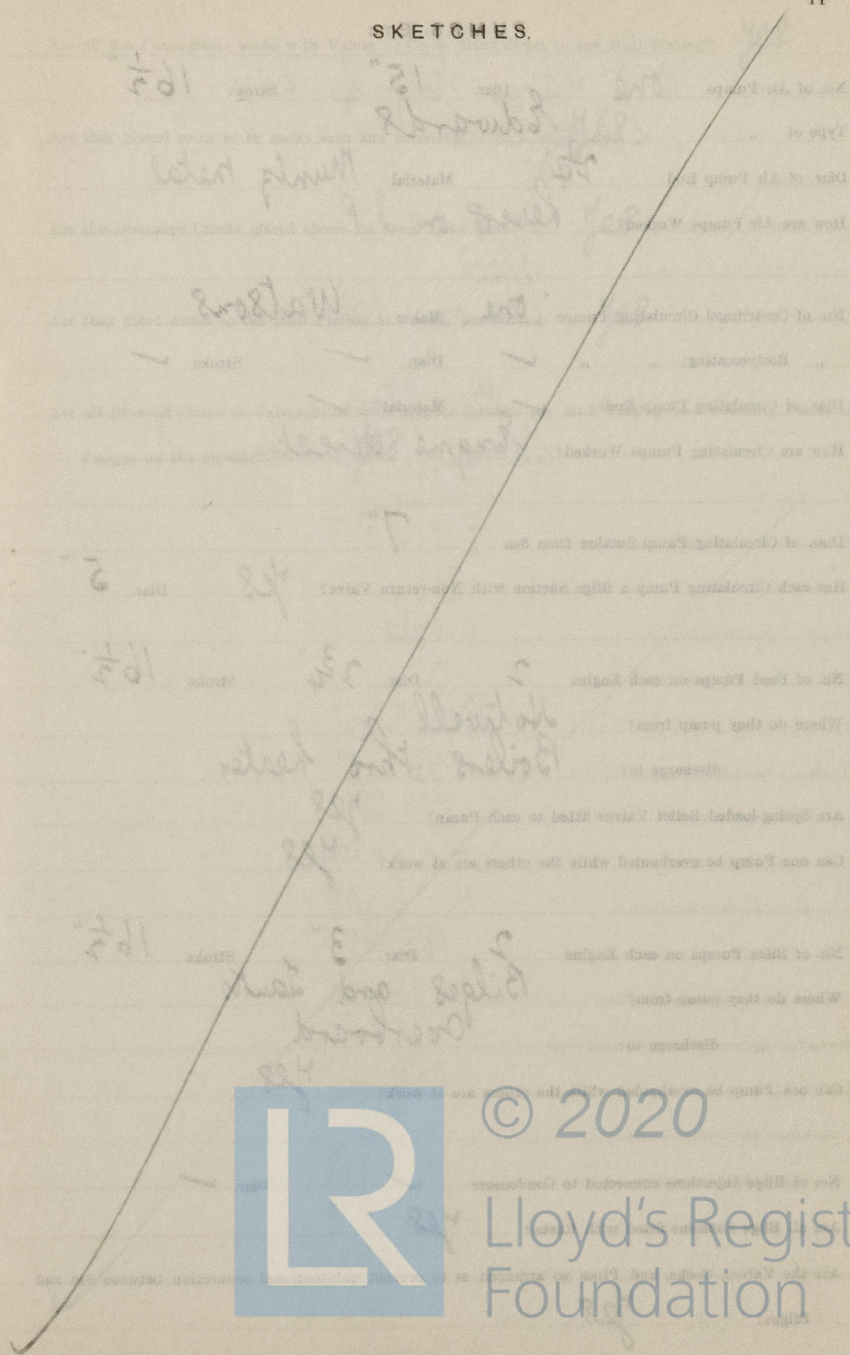
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PUMPS, ETC

No. of Air Pumps

one

Diar.

15"

Stroke

16½"

Type of "

Edwards

Diar. of Air Pump Rod

2¼"

Material

Muntz metal

How are Air Pumps Worked?

Levers on I.P.

No. of Centrifugal Circulating Pumps

one

Maker

Watsons

" Reciprocating "

✓

Diar.

Stroke

✓

Diar. of Circulating Pump Rods

Material

How are Circulating Pumps Worked?

Engine direct

Diar. of Circulating Pump Suction from Sea

7"

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

Yes

Diar.

5"

No. of Feed Pumps on each Engine

2

Diar.

2¾"

Stroke

16½"

Where do they pump from?

Hotwell
Boilers thro' heater

" " discharge to?

Are Spring-loaded Relief Valves fitted to each Pump?

Yes

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

Yes

No. of Bilge Pumps on each Engine

2

Diar.

3"

Stroke

16½"

Where do they pump from?

Bilges and Tanks
Overboard

" " discharge to?

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

Yes

No. of Bilge Injections connected to Condensers

✓

Diar.

—

Are all Bilge Suctions fitted with Roses?

Yes

Are the Valves, Cocks, and Pipes so arranged as to prevent unintentional connection between Sea and

Bilges?

Yes

Are all Sea Connections made with Valves or Cocks fitted direct to the Hull Plating?

Yes

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

Yes

Are the Discharge Chests placed above the Deep Load Line?

Yes

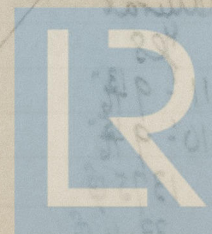
Are they fitted direct to the Hull Plating and easily accessible?

Yes

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

Flanges on the outside?

Yes



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BOILERS.

Boilers made by

N. S. Marine Eng. Co. Ltd.

" at

Sunderland

Works No.

1895

Date when Plan approved

5-3-09

Boiler Plates, Iron or Steel

Steel

Makers of Shell Plates

Spencer, Newburn

" Internal Plates

do

" Furnaces

Deighton

" Stay Bars

Spencer, Newburn

" Rivets

Miller

Material tested by (B.C., B.T., etc.)

B.C. + B.T.

No. of Boilers

2

Single or Double-ended

Single

No. of Furnaces, each Boiler

2

Type of Furnaces

Deighton

Approved Working Pressure

185 lbs

Hydraulic Test Pressure

370 lbs

Date of Hydraulic Test

4-6-09

" when Safety Valves set

16-6-09

Pressure on Valves

185 lbs

Date of Steam Accumulation Test

16-6-09

Max. Pressure under Accumulation Test

197 lbs

System of Draught

Natural

Can Boilers be worked separately?

Yes

Greatest inside Diam. of Boilers

11-9 1/2"

" " Length "

10-9 1/2"

Square Feet of Heating Surface, each Boiler

1375 sq

" Grate " "

33-4 sq



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No. of Safety Valves, each Boiler

Diar. " " "

Area " " "

Are the Valves fitted with Easing Gear?

No. of Pressure Gauges, each Boiler

" Water " "

" Test Cocks, " "

" Salinometer Cocks, " "

Are Water Gauge Pillars attached by Pipes to Steam and Water Spaces?

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 by Rule

" " Approved

" " in Boilers

Are the Rivet Holes Punched or Drilled?

Are Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

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?

Diar. of Rivet Holes

Pitch " "

Width of Overlap

Percentage of Strength in Longitudinal Seams

2
2 1/4"

7.94

yes

one

one

2 on shell

one

10

Valves ✓

one

2

1 3/32"

1 3/32"

Drilled

Steel

Butt

yes

1"

1"

machine

Treble

1 5/32"

8"

8 1/2"

83.9



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No. of Rows of Rivets in Centre Circumferential Seams ✓

Are these Seams Hand or Machine Riveted? ✓

Diar. of Rivet Holes ✓

Pitch " ✓

Width of Overlap ✓

No. of Rows of Rivets in End Circumferential Seams 2

Are these Seams Hand or Machine Riveted? Back machine. Front hand.

Diar. of Rivet Holes $5\frac{3}{8}$ "Pitch " $3\frac{1}{2}$ "Width of Overlap $5\frac{3}{8}$ "Size of Manholes in ~~Steel~~ end 16×12

Dimensions of Compensating Rings Flanged.

Thickness of End Plates in Steam Space by Rule

" " " " " Approved $1\frac{1}{32}$ "" " " " " in Boilers $1\frac{1}{32}$ "Pitch of Steam Space Stays $17\frac{1}{8} \times 15\frac{5}{8}$

Eff. Diar. " " " by Rule

" " " " " Approved 2.787 "" " " " " in Boilers 2.787 "

Material of " " " Steel

How are Stays Secured? Double nuts + washers

Diar. and Thickness of Loose Washers on End Plates $9 \times \frac{1}{16}$

" " " Riveted " " " ✓

Width " " Doubling Strips " " " ✓

Thickness of Middle Back End Plate by Rule

" " " " " Approved ✓

" " " " " in Boilers ✓



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Thickness of Doublings in Wide Spaces between Fireboxes ✓

Pitch of Stays at " " " " ✓

Eff. Diar. of Stays by Rule ✓

" " " Approved ✓

" " " in Boilers ✓

Material " ✓

Are Stays fitted with Nuts outside? ✓

Thickness of Back End Plates at Bottom by Rule

" " " " " Approved

" " " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom by Rule

" " " " " Approved

" " " " " in Boilers

No. of Long. Stays in Spaces between Furnaces

Eff. Diar. of Stays by Rule

" " " " Approved

" " " " in Boilers

Material of "

Thickness of Front Tube Plates by Rule

" " " " Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

$\frac{7}{8}$ "
 $\frac{7}{8}$ "
 $14\frac{1}{8}" \times 9\frac{3}{8}"$

$\frac{13}{16}$ "
 $\frac{13}{16}$ "
3

1.787"
1.787"
Steel

$\frac{13}{16}$ "
 $\frac{13}{16}$ "
 $\frac{13}{16}$ "
 $14\frac{1}{2}" \times 9"$
 $\frac{13}{16}$ "
 $\frac{3}{8}$ "

Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates by Rule

Approved

in Boilers

Pitch of Stay Tubes in Back Tube Plates

Plain

Thickness of Stay Tubes

Plain

External diam. of Tubes

Material

Thickness of Front Tube Plates by Rule

Approved

in Boilers

Working outside diam. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of Top by Rule

Approved

in Boilers

Pitch of Stayed Stays in U.G. Tubes

Eff. Diar.

Approved

in Boilers

Thickness of Combustion Chambers (Front to Back)



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Are Stay Tubes fitted with Nuts at Front End?

Thickness of Back Tube Plates by Rule

" " " 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 by Rule

" " " Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " " Tops, by Rule,

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Tops

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides by Rule

16

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

$13\frac{1}{2}" \times 9"$
 $4\frac{1}{2}" \times 4\frac{1}{2}"$

$\frac{5}{16}$ "

8 W.G.

$\frac{3}{4}$ "

Iron

$\frac{17}{32}"$
 $\frac{17}{32}"$
 $\frac{3}{32}"$

$3-4\frac{3}{16}"$

$7'-6"$ over

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

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

$9\frac{1}{2}" \times 8\frac{3}{4}"$

$1.5"$

$1.5"$

Steel

Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " by Rule

" " " Approved

" " " in Boilers

" " " Material

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Material

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers

" " " Thickness of Combustion Chamber Sides by Rule

" " " Approved

" " " in Boilers



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Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Eff. Diar. " " by Rule

" " " Approved

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs by Rule

" " " " Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Eff. Diar. " " by Rule

" " " Approved

" " " 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 Stay Tubes, each Boiler

" " Plain " " "

Size of lower Manholes

$\frac{3}{4}$ "
 $\frac{3}{4}$ "
 $10\frac{1}{4}" \times 9\frac{1}{2}"$

1.63"
1.63"
Steel

$\frac{13}{16}$ "
 $\frac{13}{16}$ "
 $11\frac{7}{8}" \times 9\frac{3}{8}"$

1.75"
1.75"
Steel

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

5

$7\frac{3}{4}" \times 20\frac{3}{4}"$
Steel

2

50

120

16" x 12"

VERTICAL DONKEY BOILERS

All the Donkey Boilers are fitted with the following particulars should be stated in addition to those on

Previous pages applicable to each Boiler -

Type of Boiler

Height of Boiler Crown above the Grate

Are Boiler Crown Flat or Dished?

Thickness of Plates

Location of Stays in Boiler Crown

Width of Grate

Height of Grate Crown above the Grate

Are Grate Crown Flat or Dished?

Thickness of Plates

Location of Stays

Location of Stays at Top

No. of Water Tubes

Material of Water Tubes

No. of Screwed Stays in Grate Area

Are they fitted with Nuts inside?

SUPERHEATERS

Location of Superheaters

Water space

Which Boilers are connected to superheaters?

Are superheaters in the boiler room?

No. of Safety Valves on superheaters

Are they fitted with Safety Valves?



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VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on previous Pages applicable to such Boilers:—

Type of Boilers

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

Diam. 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

Effective Diam.

Material

External Diam. of Firebox at Top

Bottom

Thickness of Plates

No. of Water Tubes

Int. Diam.

" "

Material of Water Tubes

No. of Screwed Stays in Firebox Sides

Eff. Diam.

Material

Are they fitted with Nuts inside?

Outside?

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 Superheaters

Diam.

Area

Are " " fitted with Easing Gear?

Date of Hydraulic Test

Test Pressure

Date when Safety Valves set

Pressure on Valves

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MAIN STEAM PIPES.

No. of Lengths	1	2
Material	Copper	Copper
Brazed, Welded, or Seamless	Seamless	Seamless
Internal Diam.	4 3/4"	3 1/2"
Thickness	5 W.G.	8 W.G.
How are Flanges Secured?	Brazed	Brazed
Date of Hydraulic Test	11-6-09	11-6-09
Test Pressure	370 lbs	370 lbs

REFRIGERATORS.

No. of Machines	Makers
Description	

When any part of the Vessel is to be used for the Carriage of Refrigerated Cargo the following particulars should be stated:—

Total Cubic Capacity of Refrigerated Spaces

Nature, Construction, Thickness, &c., of Insulation

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

Are all Bilge Suction, Sounding, and Air Pipes in Insulated Spaces properly insulated?

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

Are Sluice Valves fitted on any of the Bulkheads of Insulated Spaces?

Are these fitted with Brass Non-return Valves?

Are they always accessible?

Are the Bilges and Bilge Rose Boxes always accessible?

Are the Steam Suctions to Bilges fitted with Non-return Valves?

Is the Machine Room effectively separated from Insulated Spaces?

properly Ventilated and Drained?

No. of Steam Cylinders, each Machine

Diams.

Compressors,

Diam. of Crank Shafts

No. of Cranks

Give particulars of Pumps in connection with Refrigerating Plant, and state whether worked by

Refrigerating Machines or independently

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Date of Test under Working Conditions

Fall of Temperature in Insulated Spaces

Time required to obtain this Result

Articles of Spare Gear for Refrigerating Plant carried on board



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SKETCHES.

ELECTRIC LIGHTING.

Installation Fitted by

Sunderland Forge & Eng. Co Ltd

No. and Description of Dynamos

One multipolar Compound wound

Makers of Dynamos

Sunderland Forge & Eng. Co Ltd

Capacity

70

Amperes, at

110

Volts,

575

Revs. per Min.

Current Alternating or Continuous

Continuous

Position of Dynamos

Upper part of engine room
Close to dynamo

Main Switch Board

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

10

Particulars of these Circuits:—

No. of Circuit.	Name of Circuit.	Number of Lights.	Candle Power.	Current Required, Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
1	Captain's Cabin	12	16	6.0	1/14	1200	99%	600 meg
2	Master's Cabin	11	16	5.5	1/14	1100	"	"
3	Day Light	11	16	5.5	1/14	1100	"	"
4	Saloon & Pantry	12	16	5.5	1/14	1100	"	"
5	Engineers	12	16	6	1/14	1200	"	"
6	Upper Eng. Room	10	16	5	1/14	1000	"	"
7	Lower Eng. Room	10	16	5	1/14	1000	"	"
8	Deck	10	16	5.5	1/14	1000	"	"
9	Hold	12	16	6	1/14	1200	"	"
10	Store	12	16	6	1/14	1200	"	"

Total No. of Lights

99

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

One in wheelhouse with switches for side and Masthead lights

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. 18 S.W.G., Largest, No. 14 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

Duration of Trial



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EVAPORATORS.

No.	Type	Tons per Da
304	Vertical	
Makers	N. & Maine Eng. Co. Ltd.	
Working Pressure	185 lbs	
Test Pressure	400 lbs	
Date of Test		
Date of Test of Safety Valves under Steam		

FEED WATER HEATERS.

No.	Type	Tons per Da
one	Vertical	
Makers	N. & Maine Eng. Co. Ltd.	
Working Pressure	185 lbs	
Test Pressure	400 lbs	
Date of Test		

DONKEY

No. of Donkeys	one
Type	Horizontal
Makers	Workington
Single or Duplex	Duplex
" Double-Acting	Double
Diar. of Steam Cylinders	9"
" Pumps	5 1/4"
Stroke of "	10"
Where do they pump from?	Sea, Hotwell, Boilers, Tanks
Where do they discharge to?	Boilers, Deck Ash & victrol

Capacity, Tons per Hour of Ballast Donkey

80

Diar. of Pipe required by Rule for

FEED WATER FILTERS.

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

FORCED DRAUGHT FANS.

No. of Fans	Diar.	Revol. per min.
How are Fans driven?		

PUMPS.

Ballast	one
Horizontal	Workington
N. & Maine Co	Duplex
Duplex	Double
Double	6"
6"	7"
7"	9"

Tanks Bilges
Sea

Condenses
Overboard

largest Ballast Tank

4"

Sanitary	one
Horizontal	Workington
Duplex	Double
Double	4 1/2"
4 1/2"	2 3/4"
2 3/4"	4"

Sea
Tanks

Sanitary and
F.W. Tanks

Velocity of Water in Pipe 535 ft per min.

SPARE GEAR.

No. of Top End Bolts	2	No. of Bot. End Bolts	2
" Main Bearing Bolts	2	" Coupling Bolts	1 Set
" Cylr. Cover Bolts Studs	6	" Valve Chest Cover Bolts Studs	6
" Feed Pump Valves	2	" Bilge Pump Valves	2
" Safety Valve Springs	2	" Fire Bars	for 1 furnace
" Piston Rings	✓	" Junk Ring Bolts Studs	✓
" Piston Rods	✓	" Connecting Rods	✓
" Valve Spindles	✓	" Air Pump "	✓
" Air Pump Valves	✓	" " " Buckets	✓
" Crank Pin Bushes	✓	" Crosshead Bushes	✓
" Crank Shafts	✓	" Propeller Shafts	✓
" Propellers	✓	" " Blades	2 b. l.
" Boiler Tubes	✓	" Condenser Tubes	6

OTHER ARTICLES OF SPARE GEAR:—

50 Condenser ferrules
 20 Assorted bolts
 1/2 cwt. iron plates
 1/2 " " bars.

GENERAL CONSTRUCTION.

Have all the Requirements under Sections 31 and 32 of the Rules been complied with?

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

Surveyor

Are the Steam Pumping Arrangements in accordance with the approved Plan? *Yes*

If not, state in what respects they differ and when such differences were sanctioned by the Chief

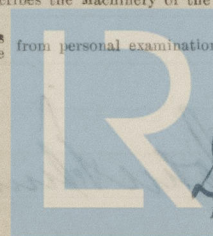
Surveyor

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. *Mapleton*

as ascertained by me from personal examination.



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

Fees—

MAIN BOILERS.

H.S. 2750 Sq. ft. 13 : 0 : 0

G.S. 66.8 " : : :

DONKEY BOILERS.

H.S. ✓ Sq. ft. : : :

G.S. ✓ " : : :

£ 13 : 0 : 0

ENGINES.

L.P.C. 31.73 Cub. ft. 10 : 0 : 0

Testing, &c. : : :

£ : : :

Expenses ... : : :

Total ... £ 23 : 0 : 0

It is submitted that this Report be approved,

W. H. King
Chief Surveyor.

Approved by the Committee,

for the Class of M B Nth
on the 11th August 1904

Fees applied for 7-7-09

Fees paid 18-7-09

Robert Stanning
Secretary.



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Page

Main Balance

4.5 2750 13 0 0

4.5 66.8

100 100.00

4.5 100.00

4.5 100.00

13 0 0

200.00

L.C. 35.75 10 0 0

Total 100.00 100.00

Total 100.00 100.00

100 100.00

It is estimated that this report be approved.

John King
 11/11/1904

Approved by the Committee for the balance of 11.11.1904
 on the 11th August 1904

The audit is 7-7-09

The audit is 18-7-09

John King
 11/11/1904



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